



Louisville Metro Air Pollution Control District
701 West Ormsby Avenue, Suite 303
Louisville, Kentucky 40203-3137



Title V Operating Permit

Permit No.: O-0047-19-V

Plant ID: 0047

Effective Date: 06/12/2019

Expiration Date: 06/30/2024

Permission is hereby given by the Louisville Metro Air Pollution Control District to operate the process(es) and equipment described herein which are located at:

Source: **Conco, Inc.**
4000 Oaklawn Drive
Louisville, KY 40219

Owner: **Conco, Inc.**
4000 Oaklawn Drive
Louisville, KY 40219

The applicable procedures of District Regulation 2.16 regarding review by the U.S. EPA and public participation have been followed in the issuance of this permit. Based on review of the application on file with the District, permission is given to operate under the conditions stipulated herein. If a renewal permit is not issued prior to the expiration date, the owner or operator may continue to operate in accordance with the terms and conditions of this permit beyond the expiration date, provided that a complete renewal application is submitted to the District no earlier than eighteen months and no later than six months prior to the expiration date.

Application No.: See **Application and Related Documents** table.

Administratively Complete Date: 09/14/2017
Public Notice Date: 04/25/2019
Proposed Permit Date: 04/25/2019



Permit writer: Narathip Chitradon

Air Pollution Control Officer
6/12/2019

Table of Contents

Permit Revisions and Changes.....	4
Construction Permit Summary.....	4
Application and Related Documents	4
Abbreviations and Acronyms	5
Preamble	6
General Conditions	7
Plantwide Requirements	15
Facility Description.....	15
Plantwide Applicable Regulations	15
Plantwide Specific Conditions.....	16
Comments for Plantwide Requirements	16
Emission Units U1 and U2: Two (2) Paint Systems.....	18
U1 and U2 Applicable Regulations	18
U1 Equipment	19
U2 Equipment	19
U1 and U2 Control Devices.....	20
U1 and U2 Equipment Not Regulated	20
U1 and U2 Specific Conditions	21
U1 and U2 Comments.....	45
Default Emission Factors, Calculation Methodologies, & Stack Tests	45
Emission Unit U3: Two (2) Parts Washers.....	46
U3 Applicable Regulations	46
U3 Equipment	46
U3 Control Devices.....	46
U3 Specific Conditions	47
Emission Unit IA-NG: Natural Gas Indirect Heat Exchangers	50
IA-NG Applicable Regulations.....	50
IA-NG Equipment.....	50
IA-NG Control Devices	50
IA-NG Specific Conditions.....	51

Permit Shield..... 52

Off-Permit Documents..... 52

Alternative Operating Scenario..... 52

Insignificant Activities..... 52

Attachment A – Determination of Benchmark Ambient Concentration (BAC)..... 55

Permit Revisions and Changes

Permit No.	Public Notice Date	Issue Date	Change Type	Description/Scope
88-97-TV	10/17/1999	12/15/1999	Initial	Initial Permit Issuance
88-97-TV(R1)	11/16/2012	12/19/2012	Renewal	Permit renewal; R.O. addition; Add MACT, 40 CFR 63, Subpart MMMM; incorporate Permit 274-01-C [North Coating Line: One (1) paint dip tank.]
O-0047-19-V	04/25/2019	06/12/2019	Renewal	Updated permit with new style template. Also updated equipment and insignificant activities lists, TAC language; and add District Regulation 6.07 and 7.06 for indirect heat exchangers.

Construction Permit Summary

There were no construction permits issued since the last Title V permit renewal., 88-97-TV(R1).

Application and Related Documents

Document Number	Date Received	Description
00061184	12 Dec 2013	Initial Notification for Federal Regulation 40 CFR 63 Subpart MMMM
00086481	28 Aug 2017	Title V permit renewal application
00087248	14 Sep 2017	The District's Title V permit renewal application administratively complete review letter
00087270	15 Sep 2017	Certificate of Authorization
00090141	22 Jan 2018	Additional AP-100D form (<i>Exhaust Stack Information</i>) for Stack S23 of Emission Point E14 (South Inside Glue Booth), Emission Unit U2 (South Paint System)
00090898	15 Feb 2018	Safety Data Sheets (SDS) of products used at the facility
00090899	19 Feb 2018	Updated AP-150B form (<i>Definition of Raw Material Usage and Production Rate</i>) to include additional paints
00091912	10 May 2018	TAC De Minimis Calculations provided by Conco
00096449	11 Dec 2018	Updated 1.05 Compliance Plan
00096575	11 Dec 2018	The District's approval for the updated 1.05 Compliance Plan

Abbreviations and Acronyms

AP-42	- AP-42, <i>Compilation of Air Pollutant Emission Factors, published by U.S.EPA</i>
APCD	- Louisville Metro Air Pollution Control District
BAC	- Benchmark Ambient Concentration
BACT	- Best Available Control Technology
Btu	- British thermal unit
CEMS	- Continuous Emission Monitoring System
CFR	- Code of Federal Regulations
CO	- Carbon monoxide
District	- Louisville Metro Air Pollution Control District
EA	- Environmental Acceptability
gal	- U.S. fluid gallons
GHG	- Greenhouse Gas
HAP	- Hazardous Air Pollutant
Hg	- Mercury
hr	- Hour
in.	- Inches
lbs	- Pounds
l	- Liter
LMAPCD	- Louisville Metro Air Pollution Control District
mmHg	- Millimeters of mercury column height
MM	- Million
NAICS	- North American Industry Classification System
NO _x	- Nitrogen oxides
PM	- Particulate Matter
PM ₁₀	- Particulate Matter less than 10 microns
PM _{2.5}	- Particulate Matter less than 2.5 microns
ppm	- parts per million
PSD	- Prevention of Significant Deterioration
psia	- Pounds per square inch absolute
QA	- Quality Assurance
RACT	- Reasonably Available Control Technology
SIC	- Standard Industrial Classification
SIP	- State Implementation Plan
SO ₂	- Sulfur dioxide
STAR	- Strategic Toxic Air Reduction
TAC	- Toxic Air Contaminant
UTM	- Universal Transverse Mercator
VOC	- Volatile Organic Compound
w.c.	- Water column
year	- Any period of twelve consecutive months, unless "calendar year" is specified
yr	- Year, or any 12 consecutive-month period, as determined by context

Preamble

Title V of the Clean Air Act Amendments of 1990 (the Act) required EPA to create an operating permit program for implementation by state or local air permitting authorities. The purposes of this program are: (1) to require an affected company to assume full responsibility for demonstrating compliance with applicable regulations; (2) to capture all of the regulatory information pertaining to an affected company in a single document; and (3) to make permits more consistent with each other.

A company is subject to the Title V program if it meets any of several criteria related to the nature or amount of its emissions. The Title V operating permit specifies what the affected company is, how it may operate, what its applicable regulations are, how it will demonstrate compliance, and what is required if compliance is not achieved. In Jefferson County, Kentucky, the Louisville Metro Air Pollution Control District (LMAPCD or APCD) is responsible for issuing Title V permits to affected companies and enforcing local regulations and delegated federal and state regulations. EPA may enforce federal regulations but not "District Only Enforceable Regulations."

Title V offers the public an opportunity to review and comment on a company's draft permit. It is intended to help the public understand the company's compliance responsibility under the Clean Air Act. Additionally, the Title V process provides a mechanism to incorporate new applicable requirements. Such requirements are available to the public for review and comment before they are adopted.

Title V Permit General Conditions define requirements that are generally applicable to all Title V companies under the jurisdiction of LMAPCD. This avoids repeating these requirements in every section of the company's Title V permit. Company-specific conditions augment the General Conditions as necessary; these appear in the sections of the permit addressing individual emission units or emission points.

The General Conditions include references to regulatory requirements that may not currently apply to the company, but which provide guidance for potential changes at the company or in the regulations during the life of the permit. Such requirements may become applicable if the company makes certain modifications or a new applicable requirement is adopted.

When the applicability of a section or subpart of a regulation is unclear, a clarifying citation will be made in the company's Title V permit at the emission unit/point level. Comments may also be added at the emission unit/point level to give further clarification or explanation.

The owner or operator's Title V permit may include a current table of "insignificant activities."

Insignificant activities are defined in District Regulation 2.16 section 1.23, as of the date the permit was proposed for review by U.S. EPA, Region 4.

Insignificant activities identified in District Regulation 1.02, section 1.38, and Appendix A may be subject to size or production rate disclosure requirements pursuant to Regulation 2.16 section 3.5.4.1.4.

Insignificant activities identified in District Regulation 1.02, section 1.38, and Appendix A shall comply with generally applicable requirements as required by Regulation 2.16 section 4.1.9.4.

General Conditions

1. **Compliance** - The owner or operator shall comply with all applicable requirements and with all terms and conditions of this permit. Any noncompliance shall constitute a violation of the Act, State, and District regulations and shall cause the source to be subject to enforcement actions including, but not limited to, the termination, revocation and reissuance, or revision of this permit, or denial of a permit application to renew this permit. Notwithstanding any other provision in the Jefferson County portion of the Kentucky SIP approved by EPA, any credible evidence may be used for the purpose of establishing whether the owner or operator is in compliance with, has violated, or is in violation of any such plan.
[Regulation 2.16, sections 4.1.3, 4.1.13.1, and 4.1.13.7]

2. **Compliance Certification** - The owner or operator shall certify, annually, or more frequently if required in applicable regulations, compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall meet the requirements of Regulation 2.16, sections 3.5.11 and 4.3.5. The owner or operator shall submit the annual compliance certification (Form 9400-O) directly to the EPA and to the District, as set forth in Regulation 2.16, section 4.3.5.4, at the following addresses:

*US EPA - Region IV
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth Street
Atlanta, GA 30303-8960*

*Air Pollution Control District
701 W. Ormsby Avenue, Suite 303
Louisville, Kentucky 40203-3137*

The owner or operator shall submit the Compliance Certification on or before April 15 of each year, or other such due date as required by another applicable regulation.

3. **Compliance Schedule** - The owner or operator shall submit a schedule of compliance for each emission unit that is not in compliance with all applicable requirements. A compliance schedule must meet the requirements of Regulation 2.16, section 3.5.9.5. A schedule of compliance shall be supplemental to, and shall not condone noncompliance with, the applicable requirements on which it is based. For each schedule of compliance, the owner or operator shall submit certified progress reports at least semi-annually, or at a more frequent period if specified in an applicable requirement or by the District in accordance with Regulation 2.16 section 4.3.4. The progress reports shall contain:

- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when activities, milestones, or compliance were achieved.
- b. An explanation of why dates in the schedule of compliance were not or will not be met, and preventive or corrective measures adopted.

4. **Duty to Supplement or Correct Application** - If the owner or operator fails to submit relevant facts or has submitted incorrect information in the permit application, they shall, upon discovery of the occurrence, promptly submit the supplementary facts or corrected information in accordance with Regulation 2.16, section 3.4.

5. **Emergency Provision**

- a. An emergency shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emission limitations if the conditions in Regulation 2.16 are met. The affirmative defense of emergency shall be demonstrated

through properly signed, contemporaneous operating logs, or other relevant evidence that:

- i. An emergency occurred and that the owner or operator can identify the cause of the emergency;
 - ii. The permitted facility was at the time being properly operated;
 - iii. During the period of the emergency the owner or operator expeditiously took all reasonable steps, consistent with safe operating practices, to minimize levels of emissions that exceeded the emission standards or other requirements in this permit; and
 - iv. The owner or operator submitted notice meeting the requirements of Regulation 1.07 of the time when emissions limitations were exceeded because of the emergency. This notice must fulfill the requirement of this condition, and must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
 - b. In an enforcement proceeding, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof.
 - c. This condition is in addition to any emergency or upset provision contained in an applicable requirement. [Regulation 2.16, sections 4.7.1 through 4.7.4]
6. **Emission Fees Payment Requirements** - The owner or operator shall pay annual emission fees in accordance with Regulation 2.08, section 12.3. Failure to pay the emissions fees when due shall constitute a violation of District Regulations. Such failure is subject to penalties and an increase in the fee of an additional 5% per month up to a maximum of 25% of the original amount due. In addition, failure to pay emissions fees within 60 days of the due date shall automatically suspend this permit to operate until the fee is paid or a schedule for payment acceptable to the District has been established. [Regulation 2.08, section 12.2.4]
7. **Emission Offset Requirements** - The owner or operator shall comply with the requirements of Regulation 2.04.
8. **Enforceability Requirements** - Except for the conditions that are specifically designated as District-Only Enforceable Conditions, all terms and conditions of this permit, including any provisions designed to limit a source's potential to emit, are enforceable by EPA and citizens as specified under the Act. [Regulation 2.16, sections 4.2.1 and 4.2.2]
9. **Enforcement Action Defense**
- a. It shall not be a defense for the owner or operator in an enforcement action that it would have been necessary for the owner or operator to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
 - b. The owner or operator's failure to halt or reduce activity may be 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 continued operation. [Regulation 2.16, sections 4.1.13.2 and 4.1.13.3]
10. **Hazardous Air Pollutants and Sources Categories** - The owner or operator shall comply with the applicable requirements of Regulations 5.02 and 5.14.
11. **Information Requests** - The owner or operator shall furnish to the District, within a reasonable time, information requested in writing by the District, to determine whether cause exists for revising, revoking and reissuing, or terminating this permit, or to determine compliance with this

permit. The owner or operator shall also furnish, upon request, copies of records required to be kept by this permit. [Regulation 2.16, section 4.1.13.6]

If information is submitted to the District under a claim of confidentiality, the source shall submit a copy of the confidential information directly to EPA at the address shown in General Condition 35.b. [Regulation 2.07, section 10.2]

12. **Insignificant Activities** - The owner or operator shall:

- a. Notify the District in a timely manner of any proposed change to an insignificant activity that would require a permit revision. [Regulation 2.16, section 5]
- b. Submit a current list of insignificant activities by April 15 of each year with the annual compliance certification, including an identification of the additions and removals of insignificant activities that occurred during the preceding year. [Regulation 2.16, section 4.3.5.3.6]

13. **Inspection and Entry** - Upon presentation of credentials and other documents as required by law, the owner or operator shall allow the District or an authorized representative to perform the following during reasonable hours: [Regulation 2.16, section 4.3.2]

- a. Enter the premises to inspect any emissions-related activity or records required in this permit.
- b. Have access to and copy records required by this permit.
- c. Inspect facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required by this permit.
- d. Sample or monitor substances or parameters to assure compliance with this permit or any applicable requirements.

14. **Monitoring and Related Record Keeping and Reporting Requirement** - The owner or operator shall comply with the requirements of Regulation 2.16, section 4.1.9. Unless specified elsewhere in this permit, the owner or operator shall complete required monthly record keeping within 30 days following the end of each calendar month. The owner or operator shall submit all required monitoring reports at least once every six months, unless more frequent reporting is required by an applicable requirement. The reporting period shall be 1 January through 30 June and 1 July through 31 December of each calendar year. All reports shall be sent to the District at the address shown in paragraph 2 of these General Conditions and must be submitted by the 60th day following the end of each reporting period, unless specified elsewhere in this permit. If surrogate operating parameters are monitored and recorded in lieu of emission monitoring, then an exceedance of multiple parameters may be deemed a single violation by the District for enforcement purposes. All reports shall include the company name, plant ID number, and the beginning and ending date of the reporting period. The compliance reports shall clearly identify any deviation from a permit requirement or a declaration that there were no such deviations. All semi-annual compliance reports shall include the statement "Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete" and the signature and title of a responsible official of the company.

The semi-annual compliance reports are due on or before the following dates of each calendar year:

Reporting Period

January 1 - June 30

July 1 - December 31

Report Due Date

August 29

March 1 of the following year

If a change in the responsible official (RO) occurs during the term of this permit, or if an RO is added, the owner or operator shall provide written notification (Form AP-100A) to the District within 30 calendar days of such change or addition.

15. **Off-permit Documents** - Any applicable requirements, including emission limitations, control technology requirements, or work practice standards, contained in an off-permit document cannot be changed without undergoing the permit revision procedures in Regulation 2.16, section 5. [Regulation 2.16, section 4.1.5]
16. **Operational Flexibility** - The owner or operator may make changes without permit revision in accordance with Regulation 2.16, section 5.8.
17. **Permit Amendments (Administrative)** - This permit can be administratively amended by the District in accordance with Regulation 2.16, section 5.4.
18. **Permit Application Submittal** - The owner or operator shall submit a timely and complete application for permit renewal or significant revision. If the owner or operator submits a timely and complete application then the owner or operator's failure to have a permit is not a violation until the District takes formal action on this permit application. This protection shall cease to apply if, subsequent to completeness determination, the owner or operator fails to submit, by the deadline specified in writing by the District, additional information required to process the application as required by Regulation 2.16, sections 3 and 5.2.
19. **Permit Duration** - This permit is issued for a fixed term of 5 years, in accordance with Regulation 2.16, section 4.1.8.3.
20. **Permit Renewal, Expiration and Application** - Permit renewal, expiration and application procedural requirements shall be in accordance with Regulation 2.16, sections 4.1.8.2 and 5.3. This permit may only be renewed in accordance with section 5.3.
21. **Permit Revisions** - 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 the permit. [Regulation 2.16, section 4.1.16]
22. **Permit Revision Procedures (Minor)** - Except as provided in 40 CFR Part 72, the Acid Rain Program, this permit may be revised in accordance with Regulation 2.16, section 5.5.
23. **Permit Revision Procedures (Significant)** - A source seeking to make a significant permit revision shall meet all the Title V requirements for permit applications, issuance and Permit renewal, in accordance with Regulation 2.16, section 5.7, and all other applicable District Regulations.
24. **Permit Termination and Revocation by the District** - The District may terminate this permit only upon written request of the owner or operator. The District may revoke a permit for cause, in accordance with Regulation 2.16, section 5.11.1 through 5.11.6. For purposes of section 5.11.1, substantial or unresolved noncompliance includes, but is not limited to:
 - a. Knowingly operating process or air pollution control equipment in a manner not allowed by an applicable requirement or that results in excess emissions of a regulated air pollutant that would endanger the public or the environment;
 - b. Failure or neglect to furnish information, analyses, plans, or specifications required by the District;
 - c. Knowingly making any false statement in any permit application;
 - d. Noncompliance with Regulation 1.07, section 4.2; or
 - e. Noncompliance with KRS Chapter 77.

25. **Permit Shield** - The permit shield shall apply in accordance with Regulation 2.16, section 4.6.1.
26. **Prevention of Significant Deterioration of Air Quality** - The owner or operator shall comply with the requirements of Regulation 2.05.
27. **Property Rights** - This permit shall not convey property rights of any sort or grant exclusive privileges in accordance with Regulation 2.16, section 4.1.13.5.
28. **Public Participation** - Except for modifications qualifying for administrative permit amendments or minor permit revision procedures, all permit proceedings shall meet the requirements of Regulations 2.07, section 1; and 2.16, sections 5.1.1.2 and 5.5.4.
29. **Reopening For Cause** - This permit shall be reopened and revised by the District in accordance with Regulation 2.16 section 5.9.
30. **Reopening for Cause by EPA** - This permit may be revised, revoked and reissued or terminated for cause by EPA in accordance with Regulation 2.16 section 5.10.
31. **Risk Management Plan [112(r)]** - For each process subject to section 112(r) of the Act, the owner or operator shall comply with 40 CFR Part 68 and Regulation 5.15.
32. **Severability Clause** - The conditions of this permit are severable. Therefore, if any condition of this permit, or the application of any condition of this permit to any specific circumstance, is determined to be invalid, the application of the condition in question to other circumstances, as well as the remainder of this permit's conditions, shall not be affected.
[Regulation 2.16, section 4.1.12]
33. **Stack Height Considerations** - The owner or operator shall comply with the requirements of Regulation 2.10.
34. **Startups, Shutdowns, and Upset Conditions Requirements** - The owner or operator shall comply with the requirements of Regulation 1.07.
35. **Submittal of Reports, Data, Notifications, and Applications**
 - a. Applications, reports, test data, monitoring data, compliance certifications, and any other document required by this permit as set forth in Regulation 2.16 sections 3.1, 3.3, 3.4, 3.5, 4.1.13.6, 5.8.5 and 5.12 shall be submitted to:
*Air Pollution Control District
701 West Ormsby Avenue, Suite 303
Louisville, Kentucky 40203-3137*
 - b. Documents that are specifically required to be submitted to EPA, as set forth in Regulation 2.16 sections 3.3 and 5.8.5 shall be mailed to EPA at:
*US EPA - Region IV
APTMD - 12th floor
Atlanta Federal Center
61 Forsyth Street
Atlanta, GA 30303-3104*

36. **Other Applicable Regulations** - The owner or operator shall comply with all applicable requirements of the following:

Regulation	Title
1.01	General Application of Regulations and Standards
1.02	Definitions
1.03	Abbreviations and Acronyms
1.04	Performance Tests
1.05	Compliance With Emissions Standards And Maintenance Requirements
1.06	Source Self-Monitoring, Emission Inventory Development and Reporting
1.07	Excess Emissions During Startups, Shutdowns, and Upset Conditions
1.08	Administrative Procedures
1.09	Prohibition of Air Pollution
1.10	Circumvention
1.11	Control of Open Burning
1.14	Control of Fugitive Particulate Emissions
2.01	General Application (Permit Requirements)
2.02	Air Pollution Regulation Requirements and Exemptions
2.03	Authorization to Construct or Operate; Demolition/Renovation Notices and Permit Requirements
2.07	Public Notification for Title V, PSD, and Other Offset Permits; SIP Revisions; and Use of Emission Reduction Credits
2.09	Causes for Permit Modification, Revocation, or Suspension
2.10	Stack Height Considerations
2.11	Air Quality Model Usage
2.16	Title V Operating Permits
4.01	General Provisions for Emergency Episodes
4.02	Episode Criteria
4.03	General Abatement Requirements
4.07	Episode Reporting Requirements
5.02	Adoption and Incorporation by Reference of National Emission Standards for Hazardous Air Pollutants
6.01	General Provisions (Existing Affected Facilities)
6.02	Emission Monitoring for Existing Sources
7.01	General Provisions (New Affected Facilities)
7.02	Adoption and Incorporation by Reference of Federal New Source Performance Standards

District Only Enforceable Regulations:

Regulation	Title
1.12	Control of Nuisances
1.13	Control of Objectionable Odors
2.08	Emission Fee, Permit Fees and Permit Renewal Procedures
5.00	Definitions
5.01	General Provisions
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant
5.21	Environmental Acceptability for Toxic Air Contaminants
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant
5.23	Categories of Toxic Air Contaminants

37. **Stratospheric Ozone Protection Requirements** - Any facility having refrigeration equipment, including air conditioning equipment, which uses a Class I or II substance (listed in 40 CFR 82, Subpart A, Appendices A and B), and any facility which maintains, services, or repairs motor vehicles using a Class I or II substance as refrigerant must comply with all requirements of 40 CFR 82, Subparts A, B, and F. Those requirements include the following restrictions:
- a. Any facility having any refrigeration equipment that normally contains fifty pounds of refrigerant or more must keep servicing records documenting the date and type of all service and the quantity of any refrigerant added, according to 40 CFR 82.166;
 - b. No person repairing or servicing a motor vehicle may perform any service on a motor vehicle air conditioner (MVAC) involving the refrigerant for such air conditioner unless the person has been properly trained and certified as provided in 40 CFR 82.34 and 40 CFR 82.40, and properly uses equipment approved according to 40 CFR 82.36 and 40 CFR 82.38, and complies with 40 CFR 82.42;
 - c. No person may sell or distribute, or offer for sale or distribution, any substance listed as a Class I or II substance in 40 CFR 82, Subpart A, Appendices A and B, except in compliance with 40 CFR 82.34(b), 40 CFR 82.42, and/or 40 CFR 82.166;
 - d. No person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the atmosphere any Class I or II substance used as a refrigerant in such equipment and no other person may open appliances (except MVACs as defined in 40 CFR 82.152) for service, maintenance, or repair unless the person has been properly trained and certified according to 40 CFR 82.161 and unless the person uses equipment certified for that type of appliance according to 40 CFR 82.158 and unless the person observes the practices set forth in 40 CFR 82.156 and 40 CFR 82.166;
 - e. No person may dispose of appliances (except small appliances, as defined in 40 CFR 82.152) without using equipment certified for that type of appliance according to 40 CFR 82.158 and without observing the practices set forth in 40 CFR 82.156 and 40 CFR 82.166;

- f. No person may recover refrigerant from small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152), except in compliance with the requirements of 40 CFR 82 Subpart F;
- g. If the permittee manufactures, transforms, imports, or exports, a Class I or II substance (listed in 40 CFR 82, Subpart A, Appendices A and B), the permittee is subject to all requirements as specified in 40 CFR 82 Subpart A, Production and Consumption Controls. [Regulation 2.16, section 4.1.5]

Plantwide Requirements

Facility Description

Conco manufactures and refurbishes steel ammunition cans and boxes according to US Military specifications.

Plantwide Applicable Regulations

DISTRICT ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
5.00	Definitions	1, 2
5.01	General Provisions	1 through 2
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant	1 through 6
5.21	Environmental Acceptability for Toxic Air Contaminants	1 through 5
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant	1 through 5
5.23	Categories of Toxic Air Contaminants	1 through 6
STAR regulations are 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23		

Plantwide Specific Conditions

S1. Standards

[Regulation 2.16, section 4.1.1]

a. TAC

- i. The owner or operator shall not allow emissions of any TAC from any process or process equipment to exceed *de minimis*. [Regulations 5.00 and 5.21] (See Comment 1)
- ii. If the TAC does not have an established BAC or *de minimis* value, the owner or operator shall calculate and report these values. The form, located in Attachment A - Determination of Benchmark Ambient Concentration (BAC), may be used for determining BAC and *de minimis* values. [Regulation 5.20, Sections 3 and 4]

S2. Monitoring and Record Keeping

[Regulation 2.16, section 4.1.9.1 and 4.1.9.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. TAC

The owner or operator shall maintain records sufficient to demonstrate environmental acceptability, including, but not limited to (M)SDS, analysis of emissions, and/or modeling results.

S3. Reporting

[Regulation 2.16, section 4.1.9.3]

The owner or operator shall report the following information, as required by General Condition 14:

a. TAC

Any emissions that were not *de minimis*.

Comments for Plantwide Requirements

1. Conco, Inc. submitted the TAC Environmental Acceptability Demonstration (EA Demo) to the District on May 10, 2018, which contained potential emissions and *de minimis* calculations. The District reviewed the EA Demonstration submitted by the source and found that either uncontrolled potential emissions were below *de minimis* levels or pollutants were excluded from the EA Demo due to District Regulation 5.21 as follows.

The north omega booth, E4; the north inside gun spray booth, E5; and the south dip tank, E16; were above the lb/yr de minimis level for diethylene glycol monobutyl ether (DGME). The south dip tank, E16 was also above the lb/hr de minimis level for DGME. However, Conco did not report to EPA the 2006 TRI emissions for DGME. In accordance with section 4.14 of Regulation 5.21, DGME emissions can be excluded from the EA Demo.

The north and south wash systems, E1 and E10, respectively, were above the lb/yr de minimis level for nitric acid. However, Conco did not report to EPA the 2006 TRI emissions for nitric acid. In accordance with section 4.14 of Regulation 5.21, nitric acid emissions can be excluded from the EA Demo.

The north and south wash system, E1 and E10, respectively, were above the lb/yr and lb/hr de minimis levels for nickel compounds. The amount of nickel found in the wash solution used by both wash systems is 0.01%, which is lower than 0.1%. In accordance with District Regulation 5.21 section 2.1, nickel can be excluded from the EA Demo because it is classified as a TAC carcinogen.

Emission Units U1 and U2: Two (2) Paint Systems

U1 and U2 Applicable Regulations

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.31	Standard of Performance for Existing Miscellaneous Metal Parts and Products Surface Coating Operations	1 through 7
6.09	Standards of Performance for Existing Process Operations	1 through 3
7.08	Standards of Performance for New Process Operations	1 through 3
7.59	Standard of Performance for New Miscellaneous Metal Parts and Products Surface Coating Operations	1 through 7
40 CFR 63 Subpart MMMM	National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts	3880-3883, 3890-3893, 3900-3901, 3910, 3920, 3930-3931, 3940-3942, 3950-3952, 3980, 3981

DISTRICT ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
5.00	Definitions	1, 2
5.01	General Provisions	1 through 2
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant	1 through 6
5.21	Environmental Acceptability for Toxic Air Contaminants	1 through 5
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant	1 through 5
5.23	Categories of Toxic Air Contaminants	1 through 6
STAR regulations are 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23		

U1 Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E1	North wash system (phosphating) used as pretreatment for increasing paint adhesion on and improving corrosion resistance of metal surfaces. Manufacturer: Spra Con, Model: Custom, Max Capacity: 360 cans/hr	1967	6.09, 6.31, STAR, 40 CFR 63 Subpart M MMM	N/A	S1, S4
E4	North omega booth. Manufacturer: Ransburg, Model: None, Max Capacity: 7.0 gal/hr	1986	7.08, 7.59, STAR, 40 CFR 63 Subpart M MMM	Filter	S8
E5	North inside gun spray booth with 10-foot dry filter. Manufacturer: Binks, Model: None, Max Capacity: 5.5 gal/hr	1967	6.09, 6.31, STAR, 40 CFR 63 Subpart M MMM	Filter	S9
E6	North touch up spray booth with 10-foot dry filter. Manufacturer: Binks, Model: None, Max Capacity: 5.5 gal/hr	1967	6.09, 6.31, 7.59, STAR, 40 CFR 63 Subpart M MMM	Filter	S10
E7	North cover and bottom dip tank. Manufacturer: Conco, Model: Custom, Max Capacity: 20 gal. tank	1983	7.08, 7.59, STAR, 40 CFR 63 Subpart M MMM	N/A	F11
E25	North bottom dip tank. Manufacturer: Conco, Model: Custom, Max Capacity: 125 gal. tank	2001	7.08, 7.59, STAR, 40 CFR 63 Subpart M MMM	N/A	F12

U2 Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E10	South wash system (phosphating) used as pretreatment for increasing paint adhesion on and improving corrosion resistance of metal surfaces. Manufacturer: Spra Con, Model: Custom, Max Capacity: 360 cans/hr	1967	6.09, 6.31, STAR, 40 CFR 63 Subpart M MMM	N/A	S13, S17
E14	South inside glue booth with 10-foot dry filter. Manufacturer: Binks, Model: None, Max Capacity: 5.5 gal/hr	1967	6.09, 6.31, STAR, 40 CFR 63 Subpart M MMM	Filter	S22, S23

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E16	South dip tank. Manufacturer: Conco, Model: Custom, Max Capacity: 1200 gal. tank	1993	7.08, 7.59, STAR, 40 CFR 63 Subpart M MMM	N/A	S24
E19	South cover touch-up booth used to apply a beauty coat to the canister covers in the North System. Manufacturer: Conco, Model: Custom, Max Capacity: 0.2 gal/hr	1986	7.08, 7.59, STAR, 40 CFR 63 Subpart M MMM	Filter	S25
E20	Gasket gluing for gluing seals to the canisters in the North System. Manufacturer: Conco, Model: Custom, Max Capacity: 0.1 gal/hr	1986	7.08, 7.59, STAR, 40 CFR 63 Subpart M MMM	N/A	F27

U1 and U2 Control Devices

There are filters associated with the paint booths in the north and south systems.

U1 and U2 Equipment Not Regulated

Emission Point	Description
-	One (1) <i>electric</i> laboratory oven used to heat product. Formerly permitted as Emission Point E22 by accident. Manufacturer: Gruen Berg, Model: C50V8.8, Max Capacity: 18 kW, Installation Date: 1986

U1 and U2 Specific Conditions

S1. Standards

[Regulation 2.16, section 4.1.1]

a. HAP

For 40 CFR 63 Subpart Mmmm:

- i. For each existing general use coating affected source, limit organic HAP emissions to no more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.
[40 CFR 63.3890(b)(1)]
- ii. You must include all coatings (as defined in 40 CFR 63.3981, Definitions), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in 40 CFR 63.3890. To make this determination, you must use at least one of the three compliance options listed in 40 CFR 63.3981(a) through (c). You may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. You may use different compliance options for different coating operations, or at different times on the same coating operation. You may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, you may not use different compliance options at the same time on the same coating operation. If you switch between compliance options for any coating operation or group of coating operations, you must document this switch as required by 40 CFR 63.3930(c), and you must report it in the next semiannual compliance report required in 40 CFR 63.3920¹. [40 CFR 63.3891]
 - (1) *Compliant material option.* Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), and that each thinner and/or other additive, and cleaning material used contains no organic HAP. You must meet all the requirements of 40 CFR 63.3940, 63.3941, and 63.3942 to demonstrate compliance with the applicable emission limit using this option. [40 CFR 63.3891(a)]

¹ 40 CFR Part 63, Subpart Mmmm establishes three options to demonstrate compliance with the organic HAP emission standards in accordance with 40 CFR 63.3891: Compliant Material Option, Emission Rate Without Add-on Controls Option, and Emission Rate With Add-on Controls Option. Conco will use the Compliant Material Option or the Emission Rate Without Add-on Controls Option. All coatings used at this facility are classified as general use coatings under 63.3881(a)(2).

(2) *Emission rate without add-on controls option.* Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), calculated as a rolling 12-month emission rate and determined on a monthly basis. You must meet all the requirements of 40 CFR 63.3950, 63.3951, and 63.3952 to demonstrate compliance with the emission limit using this option. [40 CFR 63.3891(b)]

- iii. Any coating operation(s) for which you use the compliant material option or the emission rate without add-on controls, as specified in 40 CFR 63.3891(a) and (b), must be in compliance with the applicable emission limit in 40 CFR 63.3890 (0.31 kg or 2.6 lb organic HAP per gallon of coating solids) at all times. [40 CFR 63.3900(a)(1)]
- iv. You must always operate and maintain the affected source, including all monitoring equipment you use for purposes of complying with Subpart Mmmm, according to the provisions in 40 CFR 63.6(e)(1)(i) (Operation and maintenance requirements). [40 CFR 63.3900(b)]

b. Opacity

- i. The owner or operator shall not allow visible emissions to equal or exceed 20% opacity.
[Regulation 6.09, section 3.1 or Regulation 7.08, section 3.1.1]

c. PM

- i. For Emission Points E4, the owner or operator shall not allow PM emissions to exceed 2.34 lb/hr per piece of equipment based on actual operating hours in a calendar day.²
[Regulation 7.08, section 3.1.2]
- ii. For Emission Points E5, the owner or operator shall not allow PM emissions to exceed 2.58 lb/hr per piece of equipment based on actual operating hours in a calendar day.³
[Regulation 6.09, section 3.2]
- iii. The owner or operator shall operate and maintain the control device (filter) at all times Emission Points E4 and E5 are in operation, including

² A one-time PM compliance demonstration for this equipment on 11/28/2018 and the lb/hr standard cannot be exceeded controlled.

³ A one-time PM compliance demonstration for this equipment on 11/28/2018 and the lb/hr standard cannot be exceeded controlled.

periods of startup, shutdown, and malfunction, in a manner consistent with good air pollution control practice to minimize emissions [Regulation 1.05, section 5].

- iv. For Emission Points E1, E6, E10, E14, the owner or operator shall not allow uncontrolled PM emissions to exceed 2.34 lb/hr per piece of equipment based on actual operating hours in a calendar day.⁴ [Regulation 6.09, section 3.2]
- v. For Emission Points E7, E25, E16, E19, E20, the owner or operator shall not allow uncontrolled PM emissions to exceed 2.58 lb/hr per piece of equipment based on actual operating hours in a calendar day.⁵ [Regulation 7.08, section 3.1.2]

d. TAC

See Plantwide Specific Conditions.

e. VOC

No coating shall be used with a VOC content, as applied less water and exempt solvent, in excess of the following limits during a calendar day averaging period: [Regulation 6.31, section 3.1 or Regulation 7.59, section 3.1]

Coating	VOC lb/gal	VOC kg/l
Clear coatings	4.3	0.52
Air-dried coatings	3.5	0.42
Extreme performance coatings	3.5	0.42
All other coatings	3.0	0.36

S2. Monitoring and Record Keeping

[Regulation 2.16, section 4.1.9.1 and 4.1.9.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. HAP

For 40 CFR 63 Subpart MMMM:

⁴ A one-time PM compliance demonstration for this equipment on 11/28/2018 and the lb/hr standard cannot be exceeded uncontrolled.

⁵ A one-time PM compliance demonstration for this equipment on 11/28/2018 and the lb/hr standard cannot be exceeded uncontrolled.

- i. The date by which you must comply with this subpart is called the compliance date. The compliance date for each type of affected source is specified in 40 CFR 63.3883(b). The compliance date begins the initial compliance period during which you conduct the initial compliance demonstration described in 40 CFR 63.3940 and 63.3950. [40 CFR 63.3883]
 - (1) For an existing affected source, the compliance date is the date 3 years after January 2, 2004. [40 CFR 63.3883(b)]

Compliance Requirements for the Compliant Material Option:

- ii. You may use the compliant material option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. You must use either the emission rate without add-on controls option or the emission rate with add-on controls option for any coating operation in the affected source for which you do not use this option. You must meet all the requirements of 40 CFR 63.3941. Use the procedures in 40 CFR 63.3941 on each coating, thinner and/or other additive, and cleaning material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. You do not need to redetermine the organic HAP content of coatings, thinners and/or other additives, and cleaning materials that are reclaimed on-site (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coating operation for which you use the compliant material option, provided these materials in their condition as received were demonstrated to comply with the compliant material option. [40 CFR 63.3941]
 - (1) *Determine the mass fraction of organic HAP for each material used.* You must determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in 40 CFR 63.3941(a)(1) through (5). [40 CFR 63.3941(a)]
 - (a) *Method 311 (appendix A to 40 CFR part 63).* You may use Method 311 for determining the mass fraction of organic HAP. Use the procedures specified in 40 CFR 63.3941(a)(1)(i) and (ii) when performing a Method 311 test. [40 CFR 63.3941(a)(1)]
 - (i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5

- percent of the material by mass, you do not have to count it. Express the mass fraction of each organic HAP you count as a value truncated to four places after the decimal point (*e.g.*, 0.3791).
[40 CFR 63.3941(a)(1)(i)]
- (ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (*e.g.*, 0.763).
[40 CFR 63.3941(a)(1)(ii)]
- (b) *Method 24 (appendix A to 40 CFR part 60)*. For coatings, you may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, you may use the alternative method contained in appendix A to subpart PPPP of this part, rather than Method 24. You may use the volatile fraction that is emitted, as measured by the alternative method in appendix A to subpart PPPP of this part, as a substitute for the mass fraction of organic HAP.
[40 CFR 63.3941(a)(2)]
- (c) *Alternative method*. You may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. You must follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval. [40 CFR 63.3941(a)(3)]
- (d) *Information from the supplier or manufacturer of the material*. You may rely on information other than that generated by the test methods specified in 40 CFR 63.3941(a)(1) through (3), such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, you do not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, you may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to 40 CFR 63.3941(a)(1) through (3), then the test method results will take precedence unless, after consultation, you demonstrate to the satisfaction of the

enforcement agency that the formulation data are correct.
[40 CFR 63.3941(a)(4)]

- (e) *Solvent blends.* Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, you may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 to this subpart. If you use the tables, you must use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and you may use Table 4 only if the solvent blends in the materials you use do not match any of the solvent blends in Table 3 and you know only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (appendix A to 40 CFR part 63) test indicate higher values than those listed on Table 3 or 4 to this subpart, the Method 311 results will take precedence unless, after consultation, you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.
[40 CFR 63.3941(a)(5)]

- (2) *Determine the volume fraction of coating solids for each coating.* You must determine the volume fraction of coating solids (liters (gal) of coating solids per liter (gal) of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in 40 CFR 63.3941(b)(1) through (4). If test results obtained according to 40 CFR 63.3941(b)(1) do not agree with the information obtained under paragraph (b)(3) or (4) of 40 CFR 63.3941, the test results will take precedence unless, after consultation, you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct. [40 CFR 63.3941(b)]

- (a) *ASTM Method D2697–86 (Reapproved 1998) or ASTM Method D6093–97 (Reapproved 2003).* You may use ASTM Method D2697–86 (Reapproved 1998), “Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings” (incorporated by reference, see 40 CFR 63.14), or ASTM Method D6093–97 (Reapproved 2003), “Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer” (incorporated by reference, see 40 CFR 63.14), to determine the volume fraction of coating

solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids. [40 CFR 63.3941(b)(1)]

- (b) *Alternative method.* You may use an alternative test method for determining the solids content of each coating once the District has approved it. You must follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval. [40 CFR 63.3941(b)(2)]
- (c) *Information from the supplier or manufacturer of the material.* You may obtain the volume fraction of coating solids for each coating from the supplier or manufacturer. [40 CFR 63.3941(b)(3)]
- (d) *Calculation of volume fraction of coating solids.* You may determine the volume fraction of coating solids using Equation 1 of this section: [40 CFR 63.3941(b)(4)]

$$V_s = 1 - \frac{m_{\text{volatiles}}}{D_{\text{avg}}} \quad (\text{Eq. 1})$$

Where:

V_s = Volume fraction of coating solids, liters (gal) coating solids per liter (gal) coating.

$m_{\text{volatiles}}$ = Total volatile matter content of the coating, including HAP, volatile organic compounds (VOC), water, and exempt compounds, determined according to Method 24 in appendix A of 40 CFR part 60, grams volatile matter per liter coating.

D_{avg} = Average density of volatile matter in the coating, grams volatile matter per liter volatile matter, determined from test results using ASTM Method D1475–98, “Standard Test Method for Density of Liquid Coatings, Inks, and Related Products” (incorporated by reference, see 40 CFR 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475–98 test results and other information sources, the test results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct.

- (3) *Determine the density of each coating.* Determine the density of each coating used during the compliance period from test results

using ASTM Method D1475–98, “Standard Test Method for Density of Liquid Coatings, Inks, and Related Products” (incorporated by reference, see 40 CFR 63.14), information from the supplier or manufacturer of the material, or specific gravity data for pure chemicals. If there is disagreement between ASTM Method D1475–98 test results and the supplier's or manufacturer's information, the test results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct. [40 CFR 63.3941(c)]

- (4) *Determine the organic HAP content of each coating.* Calculate the organic HAP content, kg (lb) of organic HAP emitted per liter (gal) coating solids used, of each coating used during the compliance period using Equation 2 of this section: [40 CFR 63.3941(d)]

$$H_c = \frac{(D_c)(W_c)}{V_s} \quad (\text{Eq. 2})$$

Where:

H_c = Organic HAP content of the coating, kg organic HAP emitted per liter (gal) coating solids used.

D_c = Density of coating, kg coating per liter (gal) coating, determined according to 40 CFR 63.3941(c).

W_c = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to 40 CFR 63.3941(a).

V_s = Volume fraction of coating solids, liter (gal) coating solids per liter (gal) coating, determined according to 40 CFR 63.3941(b).

- (5) *Compliance demonstration.* The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)); and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP, determined according to paragraph (a) of 40 CFR 63.3941. You must keep all records required by 40 CFR 63.3930 and 63.3931. [40 CFR 63.3941(e)]

iii. Continuous Compliance Demonstration [40 CFR 63.3942]

- (1) For each compliance period to demonstrate continuous compliance, you must use no coating for which the organic HAP content (determined using Equation 2 of 40 CFR 63.3941) exceeds the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), and use no thinner and/or other additive, or cleaning material that contains organic HAP,

determined according to 40 CFR 63.3941(a). A compliance period consists of 12 months.⁶ [40 CFR 63.3942(a)]

- (2) If you choose to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in 40 CFR 63.3942(a) is a deviation from the emission limitations that must be reported as specified in 40 CFR 63.3920(a)(5). [40 CFR 63.3942(b)]
- (3) As part of each semiannual compliance report required by 40 CFR 63.3920, you must identify the coating operation(s) for which you used the compliant material option. If there were no deviations from the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because you used no coatings for which the organic HAP content exceeded the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), and you used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to 40 CFR 63.3941(a). [40 CFR 63.3942(c)]
- (4) You must maintain records as specified in 40 CFR 63.3930 and 40 CFR 63.3931. [40 CFR 63.3942(d)]

Compliance Requirements for the Emission Rate Without Add-On Controls Option:

- iv. You may use the emission rate without add-on controls option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source.⁷ You must use either the compliant material option or the emission rate with add-on controls option for any coating operation in the affected source for which you do not use this option. You must meet all the requirements of 40 CFR 63.3951. When calculating the organic HAP emission rate according to 40 CFR 63.3951, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which you use the compliant material option or the emission rate with add-on controls option. You do not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site (or reclaimed off-site if you have documentation showing that you received back the exact same materials that were sent off-site) and reused in the coating operation for

⁶ An initial compliance demonstration has been completed and a report submitted on December 12, 2013. The compliance period for Conco, Inc. is from January to December.

⁷ Conco, Inc. uses the compliant material option for all the coating operations.

which you use the emission rate without add-on controls option. If you use coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed. [40 CFR 63.3951]

- (1) *Determine the mass fraction of organic HAP for each material.* Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month according to the requirements in 40 CFR 63.3941(a). [40 CFR 63.3951(a)]
- (2) *Determine the volume fraction of coating solids.* Determine the volume fraction of coating solids (liter (gal) of coating solids per liter (gal) of coating) for each coating used during each month according to the requirements in 40 CFR 63.3941(b). [40 CFR 63.3951(b)]
- (3) *Determine the density of each material.* Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475–98, “Standard Test Method for Density of Liquid Coatings, Inks, and Related Products” (incorporated by reference, see 40 CFR 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If you are including powder coatings in the compliance determination, determine the density of powder coatings, using ASTM Method D5965–02, “Standard Test Methods for Specific Gravity of Coating Powders” (incorporated by reference, see 40 CFR 63.14), or information from the supplier. If there is disagreement between ASTM Method D1475–98 or ASTM Method D5965–02 test results and other such information sources, the test results will take precedence unless, after consultation you demonstrate to the satisfaction of the enforcement agency that the formulation data are correct. If you purchase materials or monitor consumption by weight instead of volume, you do not need to determine material density. Instead, you may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section. [40 CFR 63.3951(c)]
- (4) *Determine the volume of each material used.* Determine the volume (liters) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If you purchase materials or monitor consumption by weight instead of volume, you do not need to determine the volume of each material used. Instead, you may use the material

weight in place of the combined terms for density and volume in Equations 1A, 1B, and 1C of this section. [40 CFR 63.3951(d)]

- (5) *Calculate the mass of organic HAP emissions.* The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section. [40 CFR 63.3951(e)]

$$H_e = A + B + C - R_w \quad (\text{Eq. 1})$$

Where:

H_e = Total mass of organic HAP emissions during the month, kg.

A = Total mass of organic HAP in the coatings used during the month, kg, as calculated in Equation 1A of this section.

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of this section.

C = Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of this section.

R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg, determined according to 40 CFR 63.3951(e)(4). (You may assign a value of zero to R_w if you do not wish to use this allowance.)

- (a) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of this section: [40 CFR 63.3951(e)(1)]

$$A = \sum_{i=1}^m (\text{Vol}_{c,i})(D_{c,i})(W_{c,i}) \quad (\text{Eq. 1A})$$

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

$\text{Vol}_{c,i}$ = Total volume of coating, i , used during the month, liters.

$D_{c,i}$ = Density of coating, i , kg coating per liter coating.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i , kg organic HAP per kg coating. For reactive adhesives as defined in 40 CFR 63.3981, use the mass fraction of

organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of this part.

m = Number of different coatings used during the month.

- (b) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section: [40 CFR 63.3951(e)(2)]

$$B = \sum_{j=1}^n (\text{Vol}_{t,j}) (D_{t,j}) (W_{t,j}) \quad (\text{Eq. 1B})$$

Where:

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg.

Vol_{t,j} = Total volume of thinner and/or other additive, j, used during the month, liters.

D_{t,j} = Density of thinner and/or other additive, j, kg per liter.

W_{t,j} = Mass fraction of organic HAP in thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive. For reactive adhesives as defined in 40 CFR 63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to subpart PPPP of this part.

n = Number of different thinners and/or other additives used during the month.

- (c) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of this section: [40 CFR 63.3951(e)(3)]

$$C = \sum_{k=1}^p (\text{Vol}_{s,k}) (D_{s,k}) (W_{s,k}) \quad (\text{Eq. 1C})$$

Where:

C = Total mass of organic HAP in the cleaning materials used during the month, kg.

Vol_{s,k} = Total volume of cleaning material, k, used during the month, liters.

D_{s,k} = Density of cleaning material, k, kg per liter.

W_{s,k} = Mass fraction of organic HAP in cleaning material, k, kg organic HAP per kg material.

p = Number of different cleaning materials used during the month.

- (d) If you choose to account for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of 40 CFR 63.3951, then you must determine the mass according to 40 CFR 63.3951(e)(4)(i) through (iv). [40 CFR 63.3951(e)(4)]
- (i) You may only include waste materials in the determination that are generated by coating operations in the affected source for which you use Equation 1 of this section and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR part 262, 264, 265, or 266. The TSDF may be either off-site or on-site. You may not include organic HAP contained in wastewater. [40 CFR 63.3951(e)(4)(i)]
 - (ii) You must determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF. Do not include in your determination any waste materials sent to a TSDF during a month if you have already included them in the amount collected and stored during that month or a previous month. [40 CFR 63.3951(e)(4)(ii)]
 - (iii) Determine the total mass of organic HAP contained in the waste materials specified in 40 CFR 63.3951(e)(4)(ii). [40 CFR 63.3951(e)(4)(iii)]
 - (iv) You must document the methodology you use to determine the amount of waste materials and the total mass of organic HAP they contain, as required in 40 CFR 63.3930(h). If waste manifests include this information, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them. [40 CFR 63.3951(e)(4)(iv)]
- (6) *Calculate the total volume of coating solids used.* Determine the total volume of coating solids used, liters, which is the combined volume of coating solids for all the coatings used during each month, using Equation 2 of this section: [40 CFR 63.3951(f)]

$$V_{st} = \sum_{i=1}^m (Vol_{c,i})(V_{s,i}) \quad (\text{Eq. 2})$$

Where:

V_{st} = Total volume of coating solids used during the month, liters.

$V_{c,i}$ = Total volume of coating, i, used during the month, liters.

$V_{s,i}$ = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to 40 CFR 63.3941(b).

m = Number of coatings used during the month.

- (7) *Calculate the organic HAP emission rate.* Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per liter (gal) coating solids used, using Equation 3 of 40 CFR 63.3951: [40 CFR 63.3951(g)]

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n V_{st}} \quad (\text{Eq. 3})$$

Where:

H_{yr} = Average organic HAP emission rate for the compliance period, kg organic HAP emitted per liter coating solids used.

H_e = Total mass of organic HAP emissions from all materials used during month, y, kg, as calculated by Equation 1 of this section.

V_{st} = Total volume of coating solids used during month, y, liters, as calculated by Equation 2 of this section.

y = Identifier for months.

n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

- (8) *Compliance demonstration.* The organic HAP emission rate for the initial compliance period calculated using Equation 3 of 40 CFR 63.3951 must be less than or equal to the applicable emission limit for each subcategory in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)). You must keep all records as required by 40 CFR 63.3930 and 63.3931. [40 CFR 63.3951(h)]
- v. Continuous Compliance Demonstration [40 CFR 63.3952]
- (1) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to 40 CFR 63.3951(a) through (g), must be less than or equal to the applicable

emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)). A compliance period consists of 12 months.⁸ You must perform the calculations in 40 CFR 63.3951(a) through (g) on a monthly basis using data from the previous 12 months of operation. [40 CFR 63.3952(a)]

- (2) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), this is a deviation from the emission limitation for that compliance period and must be reported as specified in 40 CFR 63.3920(a)(6). [40 CFR 63.3952(b)]
- (3) As part of each semiannual compliance report required by 40 CFR 63.3920, you must identify the coating operation(s) for which you used the emission rate without add-on controls option. If there were no deviations from the emission limitations, you must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), determined according to 40 CFR 63.3951(a) through (g). [40 CFR 63.3952(c)]
- (4) You must maintain records as specified in 40 CFR 63.3930 and 63.3931. [40 CFR 63.3952(d)]

General Record Keeping Requirements:

- vi. You must collect and keep records of the data and information specified in 40 CFR 63.3930. Failure to collect and keep these records is a deviation from the applicable standard. [40 CFR 63.3930]
 - (1) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. [40 CFR 63.3930(a)]
 - (2) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If you conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, you must keep a copy of the complete test report. If you use information provided to you by the manufacturer or supplier of the

⁸ An initial compliance demonstration has been completed and a report submitted on December 12, 2013. The compliance period for Conco, Inc. is from January to December.

material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier. You are not required to obtain the test report or other supporting documentation from the manufacturer or supplier.

[40 CFR 63.3930(b)]

- (3) For each compliance period, the records specified in 40 CFR 63.3930(c)(1) through (3). [40 CFR 63.3930(c)]
 - (a) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used. [40 CFR 63.3930(c)(1)]
 - (b) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of 40 CFR 63.3941. [40 CFR 63.3930(c)(2)]
 - (c) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of 40 CFR 63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of 40 CFR 63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of 40 CFR 63.3951. [40 CFR 63.3930(c)(3)]
- (4) A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If you are using the compliant material option for all coatings at the source, you may maintain purchase records for each material used rather than a record of the volume used. [40 CFR 63.3930(d)]
- (5) A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight. [40 CFR 63.3930(e)]
- (6) A record of the volume fraction of coating solids for each coating used during each compliance period. [40 CFR 63.3930(f)]
- (7) If you use either the emission rate without add-on controls or the emission rate with add-on controls compliance option, the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period. [40 CFR 63.3930(g)]

- (8) If you use an allowance in Equation 1 of 40 CFR 63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.3951(e)(4), you must keep records of the information specified in 40 CFR 63.3930(h)(1) through (3) . [40 CFR 63.3930(h)]
- (a) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of 40 CFR 63.3951; a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment. [40 CFR 63.3930(h)(1)]
 - (b) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of 40 CFR 63.3951. [40 CFR 63.3930(h)(2)]
 - (c) The methodology used in accordance with 40 CFR 63.3951(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment. [40 CFR 63.3930(h)(3)]
- (9) You must keep records of the date, time, and duration of each deviation. [40 CFR 63.3930(j)]
- vii. The owner or operator shall keep records in the form and time period as the following: [40 CFR 63.3931]
- (1) Your records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1) (General recordkeeping requirements). Where appropriate, the records may be maintained as electronic spreadsheets or as a database. [40 CFR 63.3931(a)]
 - (2) As specified in 40 CFR 63.10(b)(1) (General recordkeeping requirements), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.3931(b)]
 - (3) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1) (General

recordkeeping requirements). You may keep the records off-site for the remaining 3 years. [40 CFR 63.3931(c)]

b. Opacity

- i. See PM Specific Conditions.
- ii. The owner or operator shall, monthly, conduct a one-minute visible emissions survey, during normal operation, of the emission points. No more than four emission points shall be observed simultaneously. The opacity surveys can be performed on the building exhaust points if the process is inside an enclosure.
- iii. At emission points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9, in accordance with 40 CFR Part 60, Appendix A, within 24 hours of the initial observation.
- iv. The owner or operator shall, monthly, maintain records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an emission point is not being operated during a given month, then no visible emission survey needs to be performed and a negative declaration shall be entered in the record.⁹

c. PM

- i. The owner or operator shall maintain records, such as a copy of the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS), that include the PM content for each material used at the plant.
- ii. For Emission Points E4, E5, E6, E14, E19, the owner or operator shall inspect the filters in the paint booth(s) at least monthly to ensure proper installment (i.e. proper alignment/placement, gaps, etc.) and replace as needed.
- iii. For Emission Points E4, E5, E6, E14, E19, the owner or operator shall keep a record that shows the date and the name of the person who inspected the filters and if filters were replaced.

⁹ Conco, Inc. performs monthly visible emissions surveys, which are conducted by the EHS/Paint Finishing Engineer, and are recorded on the “Visible Particulate Survey Emissions Form”.

- iv. For Emission Points E4 and E5, the owner or operator shall maintain daily records of the type and amount of product transferred.
- v. For Emission Points E4 and E5, the owner or operator shall maintain daily records of the hours of operation of the equipment.
- vi. For Emission Points E4 and E5, the owner or operator shall maintain daily records of any periods of time where the process was operating and the control device was not operating or a declaration that the control device operated at all times that day when the process was operating.
- vii. For Emission Points E4 and E5, if there is any time that the control device is bypassed or not in operation when the process is operating, then the owner or operator shall keep a record of the following for each event:
 - (1) Date;
 - (2) Start time and stop time;
 - (3) Identification of the control device and process equipment;
 - (4) PM emissions during the event in lb/hr;
 - (5) Summary of the cause or reason for each event;
 - (6) Corrective action taken to minimize the extent or duration of the event; and
 - (7) Measures implemented to prevent reoccurrence of the situation that resulted in the event.

d. TAC

See Plantwide Specific Conditions.

e. VOC

- i. The owner or operator (EHS/Paint Finishing Engineer or designate) shall monthly review records. [Regulation 2.16, section 4.1.9.1 and 4.1.9.2, Regulation 1.05 Compliance Plan]¹⁰
- ii. An owner or operator of an affected facility subject to this regulation shall maintain records that include, the following¹¹: [Regulation 6.31, section 6.1 or Regulation 7.59, section 6.1, Regulation 1.05 Compliance Plan, revision received December 2018]

¹⁰ The latest revision to the Regulation 1.05 Compliance Plan was received December 11, 2018 (document #00096449).

¹¹ Conco, Inc. records all paint usage for product coating on the "Paint/ Chemical Usage Form". The form will be completed by the Paint Attendant or EHS/Paint Finishing Engineer. The following is recorded on the form: Date, Unit, Gallons of paint/solvent, Batch # and total daily usage.

- (1) The regulation and section number applicable to the affected facility for which the records are being maintained,
 - (2) The application method and substrate type (metal, plastic, etc.),
 - (3) The amount and type of coatings (including catalyst and reducer for multi-component coatings) and solvent (including exempt compounds) used at each point of application during the calendar day.
 - (4) The VOC content as applied in each coating and solvent,
 - (5) The date for each application of coating and solvent,
 - (6) The amount of surface preparation, clean-up, wash-up of solvent (including exempt compounds) used and the VOC content of each material used during the calendar day.
- iii. The VOC content shall be calculated using a percent solids basis (excluding water and exempt solvents) for coatings using EPA Method 24. [Regulation 6.31, section 6.2 or Regulation 7.59, section 6.2]
 - iv. The owner or operator shall, daily, record the total amount used in gallons of each coating, solvent, cleaner, etc.
 - v. The owner or operator shall monthly calculate and record the monthly and consecutive 12-month total VOC emissions each calendar month.¹²

S3. Reporting

[Regulation 2.16, section 4.1.1]

The owner or operator shall report the following information, as required by General Condition 14:

a. HAP

For 40 CFR 63 Subpart MMMM:¹³

- i. Reports [40 CFR 63.3920]
 - (1) *Semiannual compliance reports.* You must submit semiannual compliance reports for each affected source according to the requirements of 40 CFR 63.3920(a)(1) through (6). The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in 40 CFR 63.3920(a)(2) . [40 CFR 63.3920(a)]

¹² Conco, Inc. calculates VOC based on usage quantity and VOC content of the paint and solvent as received.

¹³ An initial notification was received on December 12, 2013 as required by 40 CFR 63.3910(b) of Subpart MMMM.

- (a) *Dates.* Unless the Administrator has approved or agreed to a different schedule for submission of reports under 40 CFR 63.10(a), you must prepare and submit each semiannual compliance report according to the dates specified in 40 CFR 63.3920(a)(1)(ii) through (iv). Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.¹⁴ [40 CFR 63.3920(a)(1)]
- (i) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. [40 CFR 63.3920(a)(1)(ii)]
 - (ii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. [40 CFR 63.3920(a)(1)(iii)]
 - (iii) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the date specified in 40 CFR 63.3920(a)(1)(iii).
[40 CFR 63.3920(a)(1)(iv)]
- (b) *Inclusion with title V report.* Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission

¹⁴ In accordance with 40 CFR Part 63, Subpart Mmmm, section 63.3920(a)(1) and 63.3920(a)(1)(iv), Conco, Inc. may submit their Subpart Mmmm semi-annual compliance reports on the same schedule as the Title V operating permit reporting requirements.

limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority. [40 CFR 63.3920(a)(2)]

- (c) *General requirements.* The semiannual compliance report must contain the information specified in 40 CFR 63.3920(a)(3)(i) through (v), and the information specified in 40 CFR 63.3920(a)(4) through (6) that is applicable to your affected source. [40 CFR 63.3920(a)(3)]
- (i) Company name and address.
[40 CFR 63.3920(a)(3)(i)]
 - (ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.3920(a)(3)(ii)]
 - (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation. [40 CFR 63.3920(a)(3)(iii)]
 - (iv) Identification of the compliance option or options specified in 40 CFR 63.3891 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates for each option you used.
[40 CFR 63.3920(a)(3)(iv)]
 - (v) If you used the emission rate without add-on controls (40 CFR 63.3891(b)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.
[40 CFR 63.3920(a)(3)(v)]
- (d) *No deviations.* If there were no deviations from the emission limitations in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)) that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. [40 CFR 63.3920(a)(4)]
[See Comment 1]

- (e) *Deviations: Compliant material option.* If you used the compliant material option and there was a deviation from the applicable organic HAP content requirements in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), the semiannual compliance report must contain the information in 40 CFR 63.3920(a)(5)(i) through (iv). [40 CFR 63.3920(a)(5)] [See Comment 1]
- (i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used. [40 CFR 63.3920(a)(5)(i)]
 - (ii) The calculation of the organic HAP content (using Equation 2 of 40 CFR 63.3941) for each coating identified in 40 CFR 63.3920(a)(5)(i). You do not need to submit background data supporting this calculation (*e.g.*, information provided by coating suppliers or manufacturers, or test reports). [40 CFR 63.3920(a)(5)(ii)]
 - (iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (*e.g.*, information provided by material suppliers or manufacturers, or test reports). [40 CFR 63.3920(a)(5)(iii)]
 - (iv) A statement of the cause of each deviation. [40 CFR 63.3920(a)(5)(iv)]
- (f) *Deviations: Emission rate without add-on controls option.* If you used the emission rate without add-on controls option and there was a deviation from the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)), the semiannual compliance report must contain the information in 40 CFR 63.3920(a)(6)(i) through (iii). [40 CFR 63.3920(a)(6)] [See Comment 1]
- (i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in 40 CFR 63.3890 (0.31 kg (2.6 lb) organic HAP per liter (gal)). [40 CFR 63.3920(a)(6)(i)]
 - (ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. You must

submit the calculations for Equations 1, 1A through 1C, 2, and 3 of 40 CFR 63.3951; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.3951(e)(4). You do not need to submit background data supporting these calculations (*e.g.*, information provided by materials suppliers or manufacturers, or test reports).

[40 CFR 63.3920(a)(6)(ii)]

- (iii) A statement of the cause of each deviation.
[40 CFR 63.3920(a)(6)(iii)]

b. Opacity

- i. The owner or operator shall include the following information in the semiannual compliance monitoring reports:
 - (1) Emission Unit ID and Emission Point number;
 - (2) The beginning and ending date of the reporting period;
 - (3) The date when visible emissions were observed; and
 - (4) Any corrective action taken.

c. PM

- i. For Emission Points E4 and E5, the owner or operator shall report the following information regarding bypasses in the semi-annual compliance reports.
 - (1) Emission Unit ID and Emission Point number;
 - (2) Date of occurrence;
 - (3) Number of times the vent stream bypasses the control device and is vented to the atmosphere;
 - (4) Duration of each bypass to the atmosphere; and
 - (5) Calculated pound per hour PM emissions for each bypass.
- ii. For Emission Points E4, E5, E6, E14, E19 the owner or operator shall report the following information in the semi-annual compliance reports.
 - (1) Emission Unit ID and Emission Point number;
 - (2) Date of occurrence;
 - (3) Issues found when filters were inspected; and
 - (4) Any corrective action taken.

d. TAC

See Plantwide Specific Conditions.

e. VOC

- i. The owner or operator shall include the following information in the semiannual compliance monitoring reports for Regulation 6.31, section 4.4 or Regulation 7.59, section 4.5:
 - (1) Emission Unit ID number
 - (2) The beginning and ending date of the reporting period
 - (3) The consecutive 12-month VOC emissions from the paint usage of each emission unit.

U1 and U2 Comments

1. *Deviation* means any instance in which an affected source subject to this subpart, or an owner or operator of such a source: [40 CFR 63.3981]
 - a. Fails to meet any requirement or obligation established by this subpart including but not limited to, any emission limit or operating limit or work practice standard;
 - b. Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
 - c. Fails to meet any emission limit, or operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Default Emission Factors, Calculation Methodologies, & Stack Tests

Conco, Inc. uses material balance to obtain the emissions for the paint systems.

Emission Unit U3: Two (2) Parts Washers

U3 Applicable Regulations

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.18	Standards of Performance for Solvent Metal Cleaning Equipment	1 through 4

DISTRICT ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
5.00	Definitions	1, 2
5.01	General Provisions	1 through 2
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant	1 through 6
5.21	Environmental Acceptability for Toxic Air Contaminants	1 through 5
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant	1 through 5
5.23	Categories of Toxic Air Contaminants	1 through 6
STAR regulations are 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23		

U3 Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E26	One (1) 10-gallon cold solvent parts cleaner equipped with a secondary reservoir. (Manufacturer: Graymills, Model: DM132)	2004	6.18, STAR	N/A	N/A
E27	One (1) 30-gallon cold solvent parts cleaner equipped with a secondary reservoir. (Manufacturer: Crystal Clean, Model: 54243)	2004	6.18, STAR	N/A	N/A

U3 Control Devices

There are no associated control devices.

U3 Specific Conditions

S1. Standards

[Regulation 2.16, section 4.1.1]

a. TAC

- i. See Plantwide Specific Conditions.¹⁵

b. VOC

- i. The owner or operator shall install, maintain, and operate the control equipment as follows: [Regulation 6.18, Section 4]
 - (1) The cold cleaner shall be equipped with a tightly fitting cover that is free of cracks, holes, or other defects. If the solvent is agitated or heated, then the cover shall be designed so that it can be easily operated with 1 hand. [Regulation 6.18, section 4.1.1]
 - (2) The cold cleaner shall be equipped with a drainage facility that is designed so that the solvent that drains off parts removed from the cleaner will return to the cold cleaner. The drainage facility may be external if the District determines that an internal type cannot fit into the cleaning system. [Regulation 6.18, section 4.1.2]
 - (3) A permanent, conspicuous label summarizing the operating requirements specified in District Regulation 6.18, section 4.2 shall be installed on or near the cold cleaner. [Regulation 6.18, section 4.1.3]
 - (4) If used, the solvent spray shall be a fluid stream, not a fine, atomized, or shower type spray, at a pressure that does not cause excessive splashing. Flushing of parts using a flexible hose or other flushing device shall be performed only within the freeboard area of the cold cleaner. Solvent flow shall be directed downward to avoid turbulence at the air-solvent interface and to prevent solvent from splashing outside of the cold cleaner. [Regulation 6.18, section 4.1.4]
 - (5) Work area fans shall be located and positioned so that they do not blow across the opening of the cold cleaner. [Regulation 6.18, section 4.1.6]
 - (6) If a pump-agitated solvent bath is used, then the agitator shall be operated to produce no more than a rolling motion of solvent with no observable splashing of the solvent against the tank walls or the

¹⁵ The mineral spirits contain ethylbenzene, xylene, and naphthalene. The potential emissions of ethylbenzene and xylene (Category 2 TACs) are below de minimis levels.

- parts being cleaned. An air-agitated solvent bath shall not be used.
[Regulation 6.18, section 4.1.7]
- (7) The solvent-containing portion of the cold cleaner shall be free of all liquid leaks. Auxiliary cold cleaner equipment such as pumps, water separators, steam traps, or distillation units shall not have any visible liquid leaks, visible tears, or cracks.
[Regulation 6.18, section 4.1.8]
- ii. The owner or operator shall observe at all times the following operating requirements: [Regulation 6.18, section 4.2]
- (1) Waste solvent shall neither be disposed of nor transferred to another party in a manner such that more than 20% by weight of the waste solvent can evaporate. Waste solvent shall be stored only in a covered container. A covered container may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container. [Regulation 6.18, section 4.2.1]
- (2) The solvent level in the cold cleaner shall not exceed the fill line.
[Regulation 6.18, section 4.2.2]
- (3) The cold cleaner cover shall be closed whenever a part is not being handled in the cold cleaner. [Regulation 6.18, section 4.2.3]
- (4) Parts to be cleaned shall be racked or placed into the cold cleaner in a manner that will minimize drag-out losses.
[Regulation 6.18, section 4.2.4]
- (5) Cleaned parts shall be drained for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping, or rotating, the parts shall be positioned so that the solvent drains directly back to the cold cleaner.
[Regulation 6.18, section 4.2.5]
- (6) A spill during solvent transfer shall be cleaned immediately, and the wipe rags or other sorbent material shall be immediately stored in a covered container for disposal or recycling, unless enclosed storage of these items is not allowed by fire protection authorities.
[Regulation 6.18, section 4.2.6]
- (7) Sponges, fabric, wood, leather, paper products, and other absorbent material shall not be cleaned in a cold cleaner.
[Regulation 6.18, section 4.2.7]
- iii. The owner or operator shall not operate a cold cleaner using a solvent with a vapor pressure that exceeds 1.0 mm Hg (0.019 psi) measured at 20 °C (68 °F). [Regulation 6.18, section 4.3.2]

S2. Monitoring and Record Keeping

[Regulation 2.16, section 4.1.9.1 and 4.1.9.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. TAC

See Plantwide Specific Conditions.

b. VOC

- i. The owner or operator (EHS/Paint Finishing Engineer or designate) shall monthly review records. [Regulation 2.16, section 4.1.9.1 and 4.1.9.2, Regulation 1.05 Compliance Plan]¹⁶
- ii. The owner or operator shall maintain records that include the following for each purchase: [Regulation 6.18, section 4.4.2]
 - (1) The name and address of the solvent supplier,
 - (2) The date of the purchase,
 - (3) The type of the solvent, and
 - (4) The vapor pressure of the solvent measured in mm Hg at 20 °C (68 °F).
- iii. All records required in Specific Condition S2.c.iii. shall be retained for 5 years and made available to the District upon request. [Regulation 6.18, section 4.4.3]

S3. Reporting

[Regulation 2.16, section 4.1.1]

The owner or operator shall report the following information, as required by General Condition 14:

a. TAC

See Plantwide Specific Conditions.

b. VOC

The are no routine compliance reporting requirements.

¹⁶ The latest revision to the Regulation 1.05 Compliance Plan was received December 11, 2018 (document #00096449).

Emission Unit IA-NG: Natural Gas Indirect Heat Exchangers

IA-NG Applicable Regulations

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.07	Standards of Performance for Existing Indirect Heat Exchangers	1 through 3
7.06	Standards of Performance for New Indirect Heat Exchangers	1 through 4

DISTRICT ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
5.00	Definitions	1, 2
5.01	General Provisions	1 through 2
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant	1 through 6
5.21	Environmental Acceptability for Toxic Air Contaminants	1 through 5
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant	1 through 5
5.23	Categories of Toxic Air Contaminants	1 through 6
STAR regulations are 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23		

IA-NG Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
IA-North Boiler	North boiler used for heating the water in both the North and South wash system (Emission Points E1 and E10). (Manufacturer: York Shipley, Model: 564C-S3D-200-S150-N/2, Max Capacity: 6.6 MMBtu/hr)	2015	7.06	N/A	N/A

IA-NG Control Devices

There are no associated control devices.

IA-NG Specific Conditions

S1. Standards

[Regulation 2.16, section 4.1.1]

a. Opacity

For the North boiler, the owner or operator shall not cause to be discharged into the atmosphere from any affected facility particulate matter emissions which exhibit greater than 20% opacity.

[Regulation 7.06, section 4.2]

b. PM

For the North boiler, the owner or operator shall not cause to be discharged into the atmosphere from that affected facility particulate matter in excess of 0.56 pounds per million BTU actual total heat input.

[Regulation 7.06, section 4.1.1]

S2. Monitoring and Record Keeping

[Regulation 2.16, section 4.1.9.1 and 4.1.9.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. Opacity

There are no routine compliance monitoring and record keeping requirements.¹⁷

b. PM

There are no routine compliance monitoring and record keeping requirements.¹⁸

S3. Reporting

[Regulation 2.16, section 4.1.1]

The owner or operator shall report the following information, as required by General Condition 14:

a. Opacity/PM

There are no routine compliance reporting requirements.

¹⁷ A determination has been made that each natural gas-fired boiler should inherently meet the opacity standard.

¹⁸ A one-time compliance demonstration using AP-42 emission factors has been performed for PM emissions. This demonstration showed that emission standards cannot be exceeded when combusting natural gas. Therefore, there are no monitoring, recordkeeping, or reporting requirements for PM for natural gas.

Permit Shield

The owner or operator is hereby granted a permit shield that shall apply as long as the owner or operator demonstrates ongoing compliance with all conditions of this permit. Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements of the regulations cited in this permit as of the date of issuance, pursuant to Regulation 2.16, section 4.6.1.

Off-Permit Documents

There are no off-permit documents associated with this Title V permit.

Alternative Operating Scenario

The company requested no alternative operating scenario in its Title V application.

Insignificant Activities

Equipment	Qty.	PTE (ton/yr)	Regulation Basis
Internal combustion engines—forklifts	9	-	Regulation 1.02, Appendix A, sec. 2
Robotic welding station controlled with baghouse (Manufacturer: Omega Industrial Services, Model: N/A (Custom Made), Installation Date: 2011)	1	0.46 PM ₁₀	Regulation 1.02, Appendix A, sec. 3.4
Dust or particulate collectors that are located indoors, vent directly indoors into the work space, collect no more than one ton of material per year and do not collect materials listed in Regulation 5.11, 5.12, or 5.14. This is the baghouse controlling the robotic welding station. (Manufacturer: Camfil Farr, Model: GS4, Installation Date: 2010)	1	-	Regulation 1.02, Appendix A, sec. 3.21
Brazing, soldering, or welding equipment	46	-	Regulation 1.02, Appendix A, sec. 3.4
Dust or particulate collectors that are located indoors, vent directly indoors into the work space, collect no more than one ton of material per year and do not collect materials listed in Regulation 5.11, 5.12, or 5.14. Each portable dust collector is used to control the 46 pieces of brazing, soldering, or welding equipment. (Manufacturer: Camfil Farr, Model: GS4, Installation Date: 2016 OR	6	-	Regulation 1.02, Appendix A, sec. 3.21

Equipment	Qty.	PTE (ton/yr)	Regulation Basis
Manufacturer: Kemper, Model: ProfiMaster, Installation Date: 2016)			
Gas-fired heaters ¹⁹ (Manufacturer: Dayton Infra-red, Input rating: 90,000 Btu/hr)	13	0.50 NO _x	Regulation 1.02, Appendix A, sec. 1.1
North boiler used for heating the water in both the North and South wash system (Emission Points E1 and E10). (Manufacturer: York Shipley, Model: 564C-S3D-200-S150-N/2, Max Capacity: 6.6 MMBtu/hr, Install Date: 2015)	1	2.83 NO _x	Regulation 1.02, Appendix A, sec. 1.1
North dry oven (dry off oven) for washed product. Formerly labeled as E2 under Emission Unit U1 and U2, Two (2) Paint Systems. (Manufacturer: Spra Con, Model: Custom, Max Capacity: 1,500,000 Btu/hr input or 360 cans/hr, Install Date: 1967)	1	0.64 NO _x	Regulation 1.02, Appendix A, sec. 1.1
North bake oven (cure oven) for painted product. Formerly labeled as E8 under Emission Unit U1 and U2, Two (2) Paint Systems. (Manufacturer: Spra Con and Geo, Koch & Sons, Model: Custom, Max Capacity: 2,250,000 Btu/hr input, Install Date: 1967)	1	0.97 NO _x	Regulation 1.02, Appendix A, sec. 1.1
South dry oven (dry off oven) for washed product. Formerly labeled as E11 under Emission Unit U1 and U2, Two (2) Paint Systems. (Manufacturer: Spra Con, Model: Custom, Max Capacity: 1,500,000 Btu/hr input or 360 cans/hr, Install Date: 1967)	1	0.64 NO _x	Regulation 1.02, Appendix A, sec. 1.1
South boiler used as a backup to the North boiler. Formerly labeled as E12 under Emission Unit U1 and U2, Two (2) Paint Systems. ²⁰ (Manufacturer: Kewanee, Model: HS 125, Max Capacity: 125 hp or 318,000 Btu/hr, Install Date: 1967)	1	0.14 NO _x	Regulation 1.02, Appendix A, sec. 1.1
South bake oven (cure oven) for painted product. Formerly labeled as E17 under Emission Unit U1 and U2, Two (2) Paint Systems. (Manufacturer: Spra Con, Model: Custom, Max Capacity: 2,250,000 Btu/hr input, Install Date: 1968)	1	0.97 NO _x	Regulation 1.02, Appendix A, sec. 1.1

¹⁹ The heat input capacity for each gas-fired heater is less than 1.0 MMBtu/hr; therefore, it is not subject to District Regulation 6.07 or 7.06.

²⁰ The total heat input capacity is less than 1.0 MMBtu/hr; therefore, it is not subject to District Regulation 6.07.

1. Insignificant activities identified in District Regulation 1.02, Appendix A, may be subject to size or production rate disclosure requirements pursuant to Regulation 2.16 section 3.5.4.1.4.
2. Insignificant activities identified in District Regulation 1.02, Appendix A shall comply with generally applicable requirements as required by Regulation 2.16 section 4.1.9.4.
3. The Insignificant Activities Table is correct as of the date the permit was proposed for review by U.S. EPA, Region 4.
4. Emissions from Insignificant Activities shall be reported in conjunction with the reporting of annual emissions of the facility as required by the District.
5. The owner or operator shall submit an updated list of insignificant activities that occurred during the preceding year pursuant to Regulation 2.16 section 4.3.5.3.6.
6. The owner or operator may elect to monitor actual throughputs for each of the insignificant activities and calculate actual annual emissions, or use Potential to Emit (PTE) to be reported on the annual emission inventory.
7. The District has determined pursuant to Regulation 2.16 section 4.1.9.4 that no monitoring, record keeping, or reporting requirements apply to the insignificant activities listed, except for the equipment that has an applicable regulation and permitted under an insignificant activity (IA) unit.

Attachment A – Determination of Benchmark Ambient Concentration (BAC)

Category _____ Number _____

Compound name _____ CAS No. _____

Molecular weight _____

BAC_C = _____ µg/m³, annual
de minimis _____ lb/hr; _____ lb/_____; _____ lb/year

BAC_{NC} = _____ µg/m³, _____ (avg period)

I. Carcinogen Risk - BAC_C (annual averaging period)

Carcinogen YES NO

1. IRIS 10⁻⁶ risk = _____ µg/m³ URE = _____ (µg/m³)⁻¹ Date _____
2. Cal 10⁻⁶ risk = _____ µg/m³ IUR = _____ (µg/m³)⁻¹ Date _____
3. Mich 10⁻⁶ risk = _____ µg/m³ Date _____
4. NTP Part A YES NO Part B YES NO
5. IARC Group 1 YES NO Group 2A YES NO Group 2B YES NO
6. ATSDR
7. Sec. 3.3.4 Method # _____ 10⁻⁶ risk = _____ µg/m³ Date _____
8. Default 0.0004 µg/m³

II. Chronic Noncancer Risk - BAC_{NC} (averaging period as specified)

1. IRIS RfC = _____ µg/m³, annual Date _____
2. Cal REL = _____ µg/m³, annual Date _____
3. IRIS [1] RfD = _____ µg/kg/day × (70/20) = _____ µg/m³, annual Date _____
4. Mich ITSL = _____ µg/m³, _____ averaging period Date _____
5. TLV NIOSH = _____ µg/m³ × 0.01 = _____ µg/m³, 8-hour Date _____
6. RTECS [1] _____ = _____ µg/m³, annual Date _____
 (describe calculation from Reg 5.20, sections 4.6 - 4.10)
7. Default 0.004 µg/m³

[1] To use data based upon an oral route of exposure, the District must make an affirmative determination that data are not available to indicate that oral-route to inhalation-route extrapolation is inappropriate.

III. De minimis calculations

1. Carcinogen BAC_C _____ µg/m³ × 0.54 = _____ lb/hour
 BAC_C _____ µg/m³ × 480 = _____ lb/year
2. Chronic Noncancer Risk _____ (averaging period)
 BAC_{NC} _____ µg/m³ × F factor = _____ lb/(avg period)

BAC averaging period	F factor for avg period			
	Annual	24 hour	8 hour	1 hour
Annual	480			0.54
24 hours		0.12		0.05
8 hours			0.02	0.02
1 hour				0.001

[Regulation 5.22, table 1]

Prepared by _____ Date _____