

Lane Regional Air Protection Agency Standard Air Contaminant Discharge Permit

Review Report

Source Category

1)

(LRAPA 37-

8010 Table

Lanz Cabinet Shop, Inc.

3025 West 7th Place Eugene, Oregon 97402 Website: https://lanzcabinets.com/

Source Information:

| Primary SIC | 2434 – Wood kitchen cabinets |
|---|--|
| Secondary SIC | |
| Primary NAICS | 337110 – Wood kitchen cabinet and countertop manufacturing |
| Secondary NAICS | (|
| Public Notice Category | |
| Source Category (LRAPA 37-8010 Table 1) | B: 45. Millwork manufacturing including kitchen cabinets, 25,000 or more board fee/maximum 8 hour input. |

B:69. Surface coating operations: coating operations whose actual or expected usage of coating material is greater than 250 gallons per month, excluding sources that exclusively use non-VOC and non-HAP containing coating.
C: 3. All sources electing to maintain the source's netting basis
C: 4. All sources that request a PSEL equal to or greater than the SER for a regulated pollutant

Compliance and Emissions Monitoring Requirements:

| Unassigned emissions | Ν |
|-----------------------|---|
| Emission credits | N |
| Compliance schedule | N |
| Source test [date(s)] | N |

Reporting Requirements

| Annual report (due date) | Feb 15 |
|----------------------------------|--------|
| Semi-Annual Report (due date) | N |
| Greenhouse Gas Report (due date) | Ν |

Air Programs

| NSPS (list subparts) | Ν |
|--------------------------------|---|
| NESHAP (list subparts) | N |
| CAM | Ν |
| Regional Haze (RH) | N |
| ТАСТ | N |
| 40 CFR part 68 Risk Management | N |
| Synthetic Minor (SM) | N |
| SM-80 | N |

| 2 | |
|--------------------|---|
| COMS | Ν |
| CEMS | Ν |
| CPMS | Ν |
| Ambient monitoring | Ν |

| Quarterly report (due dates) | Ν |
|------------------------------|---|
| Monthly report (due dates) | Ν |
| Excess emissions report | Υ |
| Other reports | N |

| Title V | Ν |
|---|---|
| Major FHAP Source | Ν |
| Federal Major Source | Ν |
| Type A State New Source Review | Ν |
| Type B State New Source Review | Ν |
| Prevention of Significant Deterioration (PSD) | Ν |
| Nonattainment New Source Review (NNSR) | Ν |

Permit No. 204937

Permittee Identification

1. Lanz Cabinet Shop, Inc. ('Lanz' or 'facility') owns and operates a cabinet manufacturing facility located at 3025 West 7th Place, Eugene Oregon.

General Background

2. Lanz began operation in May 1998. Previously, the facility operated a cabinet manufacturing operation located at 3815 West 11th Avenue, Eugene, Oregon that was established in 1960. The only equipment transferred from the old facility to the West 7th Place facility was the wood-working equipment. All coating equipment and baghouses were installed in 1998 or after.

The facility's operation consists of two (2) continuous coating lines: a stain coating line and a UV coating line which have a total of three (3) 0.081 MMBtu/hour natural gas-fired ovens. There is one (1) spray booth that adhesive is applied. The continuous coating lines and the spray booth use filters to control for particulate matter (PM).

Reason for Permit Action and Fee Basis

3. This permit action is for the reclassification of the facility from major source under a Title V Operating Permit to a Standard ACDP.

In 1998 and again in 2002, Lanz wanted to obtain the facility's Title V permit to allow for the potential for increased production in response to favorable markets (Review Reports 1998 and 2002). The facility calculated their emissions with a potential growth factor. This put the tons per year of hazardous air pollutant(s) (HAP) (single and combined) over the 10 tons/year (for single) and 25 tons/year (combined) making the facility subject to 40 CFR part 63 subpart JJ. The one HAP that caused the thresholds of both the single and combined to be exceeded was Methyl Ethyl Ketone (MEK). MEK was delisted from the section 112(b) list of Hazardous Air Pollutants in 2005. The "EPA allowed source[s] to look back to the first substantive compliance date to demonstrate that the potential to emit HAPs on that date would have been less than the major source threshold, without counting emissions of the delisted pollutant" as a method to reestablish the facility as an area source of HAPs. (*U.S. Environmental Protection Agency Applicability Determination Index, Control Number: M090018*, August 26, 2008). Utilizing this document, the facility would not have been over the single or combined HAP thresholds and would not have been required to obtain and/or maintain a Title V Operating Permit.

The actual annual emissions for HAPs have demonstrated that the facility has never been over the HAP thresholds of 10 tons/year (single) or 25 tons/year (combined) since 1998, when the facility first became subject to Subpart JJ. With the facility's updated coating technology and the reformulated paints, topcoats, sealer, thinners, etc., the emissions have been reduced though production has increased.

Attainment Status

4. The facility is located in an area that has been designated as attainment or unclassified for all criteria pollutants. Lanz is inside the Eugene-Springfield Urban Growth Boundary (UGB) as defined in LRAPA 39-0010 which designates the Eugene-Springfield CO and PM₁₀ maintenance areas. The facility is also located inside the Eugene-Springfield UGB as described in the current Eugene-Springfield Metropolitan Area General Plan, as amended.

Permit History

5. LRAPA has reviewed and issued the following permitting actions to this facility:

| Date(s) Approved/Valid | Permit Action Type | Description |
|---------------------------|---------------------------|---|
| 10/26/1999 | ACDP | Initial |
| 05/03/2002 | TV Operating Permit | Initial |
| 10/01/2002 | Administrative Amendment | Change date of VOC emissions calculations are to be performed |
| 04/23/2010 | Title V | Renewal |
| 10/27/2011 | Section 502(b)(10) Change | Conversion of warehouse to coating and production area for the installation of a spray booth for hand application of coatings, with the parameters of 40 CFR part 63 subpart JJ. |
| 10/24/2013 | Section 502(b)(10) Change | Installation of a spray booth for hand application of coatings, within the parameters of 40 CFR part 63 subpart JJ. |
| 01/02/2014 | Section 502(b)(10) Change | Installation of a spray booth for hand application of coatings, an edge bander and panel saw. |
| 10/24/2016 | Addendum #1 | Revised the name, title, and phone number of the 'Responsible Official' and 'Facility Contact Person' |
| 07/29/2019 | Title V | Renewal |
| 11/02/2023 | Addendum #1 | Replacement of Stain and UV lines, updated control devices for the Sawdust Handling System, updated the "Responsible Official" title. |
| Upon Issuance | Standard ACDP | Reclass facility to a Standard ACDP |

Emission Unit Descriptions

6. The emission units (EU) regulated by the permit are the following:

| Emission Unit Description | EU ID | Pollution Control Device Description | PCP ID | | | |
|---|-------|---|--|--|--|--|
| Significant Emission Units: | | | | | | |
| Continuous Coating Lines: | | | | | | |
| UV Coater and Stain Line with natural gas-fired 0.081 MMBtu/hr ovens Spray Booth | SC | Paint Filters | NA | | | |
| Aggregate Insignificant Activities: | | | | | | |
| Sawdust Handling System: | AIA | Building 1: Baghouses 1 & 4 with dust collection extraction point (truck dump hopper) Building 2: Baghouse 2 with dust collection extraction point and Baghouse 5 (dust collected BH-1) Building 3: Baghouses 3 & 6 with dust collection extraction point (truck dump hopper) | BH-1 BH-2 BH-3 BH-4 BH-5 BH-6 | | | |

| Emission Unit Description | EU ID | Pollution Control Device Description | PCP ID |
|--|-------|--------------------------------------|--------|
| 1.93 MMBtu/hr of Natural Gas-Fired Combustion Units | CIA | NA | NA |

General Emission Limits and Standards

7. All PM emitting equipment such as baghouses and fuel burning equipment are limited to 20 percent opacity. For equipment installed, constructed or modified prior to April 16, 2015 are limited to 0.14 grains per dry standard cubic foot (dscf) and equipment installed, constructed or modified after April 16, 2015 are limited to 0.10 dscf. The equipment is subject to the non-fugitive particulate matter emission limits in Section 8010 of LRAPA title 32. Visual emissions surveys of the facility's equipment must be performed at least once each quarter.

Plant Site Emission Limits (PSELs)

8. Provided below is a summary of the baseline emission rate, netting basis, plant site emission limits, and potential-to-emit (PTE):

| Pollutant | Baseline Emission Rate (tpy) | Netting Basis | | Plant Site Emission Limits (PSEL) | | PTE |
|-------------------|------------------------------------|-------------------|-------------------|--------------------------------------|------------------------|-------|
| | | Previous (tpy) | Proposed (tpy) | Previous PSEL (tpy) | Proposed PSEL (tpy) | (tpy) |
| PM | NA | 0.0 | 0.0 | 24 | 0.0 | 0.46 |
| PM10 | NA | 0.0 | 0.0 | 14 | 0.0 | 0.46 |
| PM _{2.5} | NA | 0.0 | 0.0 | 9.0 | 0.0 | 0.46 |
| СО | NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.78 |
| NOx | NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.93 |
| SO ₂ | NA | 0.0 | 0.0 | 0.0 | 0.0 | 0.02 |
| VOC | NA | 70 | 70 | 70 | 62 | 62.07 |
| GHG | 1,091 | 1,091 | 1,091 | 74,000 | 0.0 | 1,115 |

- 9. The facility has no baseline emission rates (BER) for PM, PM₁₀, CO, NO_X, SO₂, and VOC because the facility was not in operation during the 1978 baseline year. A baseline emission rate was not established for PM_{2.5} in accordance with LRAPA 42-0048(3). The facility's baseline for GHG was based on 2006 data in accordance with LRAPA 42-0048(1)(b) and (4).
- 10. The netting basis for VOC was established according to 42-0046(3)(e)(B). The facility was subject to New Source Review (NSR) under LRAPA title 38. The netting basis for GHG was established according to 42-0046(1)(b). The netting basis for all pollutants, other than VOC and GHG, is set at zero (0) because the facility was constructed after the 1978 baseline year.
- 11. PSELs were established based upon the following:
 - 11.a. No PSELs were established for PM, PM₁₀, PM_{2.5}, CO, NO_X, and GHG because these pollutants will be emitted from the facility at no more than the de minimis emission levels list in LRAPA title 12.
 - 11.b. The VOC PSEL was set according to LRAPA 42-0041(2).
 - 11.c. The PSEL is a federally enforceable limit on the potential to emit.

Significant Emission Rate (SER)

12. The PSEL increase over the netting basis is less than the Significant Emission Rate (SER) as defined in LRAPA title 12 for all pollutants as shown below.

| Pollutant | Proposed PSEL (tpy) | PSEL Increase Over Netting Basis (tpy) | PSEL Increase Due to Utilizing Existing Baseline Period Capacity (tpy) | PSEL Increase Due to Modification (tpy) | SER (tpy) |
|-------------------|---------------------------|---|--|--|--------------|
| РМ | NA | NA | NA | NA | 25 |
| PM10 | NA | NA | NA | NA | 15 |
| PM _{2.5} | NA | NA | NA | NA | 10 |
| CO | NA | NA | NA | NA | 100 |
| NOx | NA | NA | NA | NA | 40 |
| SO ₂ | NA | NA | NA | NA | 40 |
| VOC | 62 | 0.0 | 0.0 | 0.0 | 40 |
| GHG | NA | NA | NA | NA | 75,000 |

Best Available Control Technology (BACT) Removal Discussion

13. The BACT determination for the VOC limits was performed for the May 2, 2002 initial Title V Operating Permit for the UV Continuous Coating Line. The initial UV Continuous Coating Line was replaced in November 2024 with a new UV Line therefore, the BACT determination no longer applies and was removed from the permit.

Type A and Type B State NSR

14. At the time of the initial application, the facility's regulated pollutants were evaluated according to title 38. Because there will not be an increase to the PSEL during this action, no determination was required.

New Source Review (NSR) and Prevention of Significant Deterioration (PSD)

15. This facility is located in an area that is designated attainment or unclassified for all regulated pollutants other than CO and PM₁₀. For pollutants other than CO and PM₁₀, the proposed PSELs are less than the federal major source threshold for non-listed sources of 250 tons per year per regulated pollutant and are not subject to Major NSR. For CO and PM₁₀, the source is located in a maintenance area. There has been no changes to the CO or PM₁₀ PSELs, therefore CO and PM₁₀ remain below the 100 tons per year threshold that determines the applicability of Major NSR in a maintenance area.

Federal Hazardous Air Pollutants (FHAP)/Toxic Air Contaminants (TAC)

16. The potential annual FHAP emissions for Lanz are based on a ratioed material balance for coating operations and standard emission factors for natural gas combustion. Potential FHAP emissions are projected to be 0.49 tons per year, with toluene having the highest single FHAP emissions at 0.23 tons per year. A major source of FHAPs is defined as having potential FHAP emissions of at least 10 tons per year of any single HAP and 25 tons per year of the aggregate of all FHAPs. This facility does not have potential FHAP emissions exceeding these thresholds and is considered a minor or area source of FHAPs.

- 17. Under the Cleaner Air Oregon program, only existing sources that have been notified by LRAPA and new sources are required to perform risk assessments. The facility has not been notified by LRAPA and is therefore not yet required to perform a risk assessment or report annual emissions of toxic air contaminants. LRAPA required reporting of approximately 600 toxic air contaminants in 2016 and regulates approximately 260 toxic air contaminants that have Risk Based Concentrations established in rule. All FHAPs are on the list of approximately 600 toxic air contaminants. The FHAPs and toxic air contaminants listed below are based upon source testing and/or standard emission factors for the types of emission units at this facility. After the source is notified by LRAPA, Lanz must update their inventory and perform a risk assessment to see if they must reduce risk from their toxic air contaminant emissions. Until then, sources will be required to report toxic air contaminant emissions triennially.
- 18. The table below represents the potential emissions of FHAPs/TACs from facility assuming operation at full capacity.

| CAS Number or DEQ ID* | Pollutant | PTE (tpy) | FHAP | CAO TAC |
|-----------------------------|---|--------------|------|------------|
| 95-63-6 | 1,2,4-Trimethylbenzene | 9.89E-03 | No | Yes |
| 78-93-3 | 2-Butanone (methyl ethyl ketone) | 4.77E-01 | No | Yes |
| 75-07-0 | Acetaldehyde | 2.88E-05 | Yes | Yes |
| 67-64-1 | Acetone | 8.32E+00 | No | Yes |
| 67-64-1 | Acrolein | 2.50E-05 | Yes | Yes |
| 7664-41-7 | Ammonia | 2.97E-02 | Yes | Yes |
| 7440-38-2 | Arsenic | 1.86E-06 | Yes | Yes |
| 107-02-8 | Benzene | 5.38E-05 | Yes | Yes |
| 7440-41-7 | Beryllium | 1.11E-07 | Yes | Yes |
| 85-68-7 | Butyl benzyl phthalate | 7.80E-04 | No | Yes |
| 7440-43-9 | Cadmium | 1.02E-05 | Yes | Yes |
| 18540-29-9 | Chromium, Hexavalent | 1.30E-05 | Yes | Yes |
| 112-34-5 | Diethylene glycol monobutyl ether | 2.24E-02 | No | Yes |
| 111-90-0 | Diethylene glycol monoethyl ether | 2.24E-02 | No | Yes |
| 34590-94-8 | Dipropylene glycol monomethyl ether | 3.83E-04 | No | Yes |
| 100-41-4 | Ethyl Benzene | 6.40E-05 | Yes | Yes |
| 107-21-1 | Ethylene glycol | 5.69E-03 | Yes | Yes |
| 111-76-2 | Ethylene glycol monobutyl ether (2- Butoxyethanol) | 1.41E-01 | No | Yes |
| 50-00-0 | Formaldehyde | 1.14E-04 | Yes | Yes |
| 822-06-0 | Hexamethylene- 1,6-diisocyanate | 1.43E-05 | Yes | Yes |
| 100-54-3 | Hexane | 4.27E-05 | Yes | Yes |
| 67-63-0 | Isopropyl alcohol (2-Propanol) | 8.03E+00 | No | Yes |
| 98-82-8 | Isopropyl benzene (Cumene) | 3.30E-05 | Yes | Yes |
| 7439-96-5 | Manganese | 3.53E-06 | Yes | Yes |
| 7439-97-6 | Mercury | 2.41E-06 | Yes | Yes |
| 108-10-1 | Methyl isobutyl ketone (MIBK, hexane) | 2.27E-01 | Yes | Yes |
| 71-36-3 | n-Butyl alcohol (1-Butanol) | 6.81E-02 | No | Yes |
| 91-20-3 | Naphthalene | 2.78E-06 | Yes | Yes |
| 7440-02-0 | Nickel | 1.95E-05 | Yes | Yes |
| | POM (inc. PAHs) | 3.71E-06 | Yes | Yes |
| 115-07-1 | Propylene | 4.92E-03 | No | Yes |
| 108-65-6 | Propylene glycol monomethyl ether acetate | 2.27E-01 | No | Yes |
| | Selenium | 2.23E-07 | Yes | Yes |
| 7631-86-9 | Silica, crystalline (respirable) | 3.69E-01 | No | Yes |

| CAS Number or DEQ ID* | Pollutant | PTE (tpy) | FHAP | CAO TAC |
|-----------------------------|------------------------------------|--------------|------|------------|
| 358* | Talc containing asbestiform fibers | 3.48E-04 | No | Yes |
| 108-88-3 | Toluene | 2.27E-01 | Yes | Yes |
| 1330-20-7 | Xylenes | 2.34E-04 | Yes | Yes |
| | Total HAPs and TACs (tpy) | | 0.49 | 18.18 |

*DEQ ID number

New Source Performance Standards (NSPS)

- 19. Lanz is not subject to any of these NSPSs because the facility is a millwork manufacturer of kitchen cabinets.
 - 19.a. NSPS 40 CFR part 60 subpart EE Standards of Performance for Surface Coating of Metal Furniture.
 - 19.b. 40 CFR part 60 subparts MM or MMa Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations.
 - 19.c. 40 CFR part 60 subpart SS Standards of Performance for Industrial Surface Coating: Large Appliances.
 - 19.d. 40 CFR part 60 subpart TT Standards of Performance for Metal Coil Surface Coating.
 - 19.e. 40 CFR part 60 subpart WW Standards of Performance for Beverage Can Surface Coating.
 - 19.f. 40 CFR part 60 subpart TTT Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines.
 - 19.g. 40 CFR part 60 subpart TTTa Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines for Which Construction, Reconstruction, or Modification Commenced After June 21, 2022.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- 20. 40 CFR part 63 subpart JJ National Emissions Standards for Wood Furniture Manufacturing Operations. Lanz is not a major source of hazardous air pollutants (HAPs) and is therefore, not subject to this subpart.
- 21. 40 CFR part 63 subpart QQQQ National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Wood Building Products. Lanz is not subject to this subpart because the facility does not surface coat doors, windows, flooring, interior wall paneling and tileboard, other interior panel or exterior siding and primed doorskins.
- 22. 40 CFR part 63 subpart HHHHHH– National Emissions Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources. Lanz does not use methylene chloride (MeCl), is not an autobody refinishing operations, and does not use target HAPs and is therefore, not subject to this subpart.
- 23. Lanz is not subject to any of these NESHAPs because the facility millwork manufacturer of kitchen cabinets.
 - 23.a. 40 CFR part 63 subpart II National Emissions Standards for Hazardous Air Pollutants for Shipbuilding and Ship Repair (Surface Coating).
 - 23.b. 40 CFR part 63 subpart IIII National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Automobiles and Light-Duty Trucks.

- 23.c. 40 CFR part 63 subpart KKKK National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Metal Cans.
- 23.d. 40 CFR part 63 subpart MMMM National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.
- 23.e. 40 CFR part 63 subpart NNNN National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Large Appliances.
- 23.f. 40 CFR part 63 subpart PPPP National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products.
- 23.g. 40 CFR part 63 subpart RRRR National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Metal Furniture.
- 23.h. 40 CFR part 63 subpart SSSS– National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Metal Coil.

Toxic Release Inventory

- 24. The Toxics Release Inventory (TRI) is a federal program that tracks the management of certain toxic chemicals that may pose a threat to human health and the environment. It is a resource for learning about toxic chemical releases and pollution prevention activities reported by certain industrial facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) created the TRI Program. In general, chemicals covered by the TRI Program are those that cause:
 - Cancer or other chronic human health effects;
 - Significant adverse acute human health effects; or
 - Significant adverse environmental effects.

There are currently over 650 chemicals covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual TRI reports on each chemical. NOTE: The TRI Program is a federal program over which LRAPA has no regulatory authority.

In order to report emissions to the TRI program, a facility must operate under a reportable NAICS code, meet a minimum employee threshold, and manufacture, process, or otherwise use chemicals in excess of the applicable reporting threshold for the chemical. The facility's NAICS code is 337110 – Wood Kitchen Cabinet and Countertop Manufacturing which is subject to the TRI program, but the facility falls below the reporting limits and does not have to report to the TRI program.

Compliance History

25. This facility is regularly inspected by LRAPA and occasionally by other regulatory agencies. The following table indicates the inspection history of this facility since the facility began operation:

| Type of Inspection | Date | Results |
|------------------------------------|-------------|---------------|
| LRAPA - Full Compliance Evaluation | 07/15/2011 | In compliance |
| LRAPA - Full Compliance Evaluation | 07/092013 & | In compliance |
| | 07/10/2013 | |
| LRAPA - Full Compliance Evaluation | 08/05/2015 | In compliance |
| LRAPA - Full Compliance Evaluation | 08/31/2017 | In compliance |
| LRAPA - Full Compliance Evaluation | 03/11/2019 | In compliance |
| LRAPA - Full Compliance Evaluation | 09/29/2021 | In compliance |
| LRAPA - Full Compliance Evaluation | 06/01/2023 | In compliance |

Recordkeeping Requirements

- 26. The facility must maintain records for a period of at least five (5) years. All records must be available for inspection by authorized representatives of LRAPA. The records required to be kept are as follows:
 - 26.a. PSEL monthly calculations;
 - 26.b. Natural gas usage;
 - 26.c. Visible emission surveys and corrective action taken;
 - 26.d. Description of all inspections and maintenance performed on air contaminant control systems;
 - 26.e. Filter efficiency of spray booth or spray booth chambers dry filter control devices;
 - 26.f. Types of spray coating application technology used at the facility;
 - 26.g. Procedures relating to manual spray gun cleaning;
 - 26.h. Training documentation: name and of person trained, date of training;
 - 26.i. Documents of the standard operating procedures for storage containers used for VOC-containing materials;
 - 26.j. Records of types, quantity, density, VOC and solid content of all adhesives, coatings (including catalysts and reducers), sealers, topcoats and solvents used for BACT calculations; and
 - 26.k. All Certified Product Data Sheets (CPDS) or Safety Data Sheets (SDS) for all products used.
- 27. The facility must maintain logs of all written or telephone complaints.

Reporting Requirements

- 28. Lanz must submit an annual report on February 15th of each year. The report must contain:
 - 28.a. PSEL calculations;
 - 28.b. Natural gas usage;
 - 28.c. Certified Product Data Sheets (CPDS) or Safety Data Sheets (SDS) for any new product used; and
 - 28.d. Monthly averaging calculation results for each calendar month for the year.

Public Notice

29. Pursuant to LRAPA 37-0066(4)(a)(A), issuance of a new Standard Air Contaminant Discharge Permit for permit actions that do not allow for an increase in emissions requires public notice in accordance with LRAPA 31-0030(3)(b). However, in accordance with LRAPA with LRAPA 31-0030(4), LRAPA is moving the permit action from a Category II to a Category III public notice which requires LRAPA to provide notice of the proposed permit action and a minimum of 35 days for interested persons to submit written comments.

The draft permit will be on public notice from April 17, 2024 to May 23, 2024. Written comments may be submitted during the 35-day comment period. If requested by ten (10) or more individuals or an individual representing a group of more than ten (1) individuals, there will be a public hearing following the comment period.

After the comment period and hearing (if requested), LRAPA will respond to comments received and then take final action to issue or deny the permit within 45 days of the close of the public comment period or hearing period.

Lanz Cabinet Shop, Inc. Expiration Date: <mark>[5 years from Issuance]</mark> Review Report Permit No. 204739 Page 10 of 19

BE/cmw 4/15/2024

Lanz Cabinet Shop, Inc. Expiration Date: <mark>[5 years from Issuance]</mark>

Abbreviations, Acronyms, and Definitions

| ACDP | Air Contaminant Discharge | NA | Not applicable |
|---------------|---------------------------------------|-------------------|---|
| | Permit | NESHAP | National Emissions |
| AIA | Aggregate Insignificant Activities | | Standards for Hazardous Air Pollutants |
| Agency | Lane Regional Air Protection | NOx | Nitrogen oxides |
| | Agency | NSPS | New Source Performance |
| ASTM | American Society for Testing | | Standard |
| | and Materials | NSR | New Source Review |
| AQMA | Air Quality Maintenance Area | O ₂ | Oxygen |
| Calendar year | The 12-month period | OAR | Oregon Administrative Rules |
| | beginning January 1 st and | ORS | Oregon Revised Statues |
| | ending December 31 st | O&M | Operation and Maintenance |
| CFR | Code of Federal Regulations | Pb | Lead |
| CEMS | Continuous emissions | PCD | Pollution control device |
| | Monitoring system | PIR | Paved Industrial Roads |
| CMS | Continuous Monitoring | PM | Particulate matter |
| | System | PM 10 | Particulate matter less than 10 |
| CPMS | Continuous parameter | | microns in size |
| | Monitoring system | PM _{2.5} | Particulate matter less than 2.5 |
| CO | Carbon monoxide | | microns in size |
| DEQ | Oregon Department of | ppmv | Part per million by volume |
| | Environmental Quality | PSD | Prevention of Significant |
| dscf | dry standard cubic foot | | Deterioration |
| EPA | US Environmental Protection | PSEL | Plant Site Emission Limit |
| | Agency | PTE | Potential to Emit |
| FCAA | Federal Clean Air Act | scf | Standard cubic foot |
| gal | gallon(s) | SER | Significant Emission Rate |
| gr/dscf | Grains per dry standard cubic | SIC | Standard Industrial Code |
| | foot | SIP | State Implementation Plan |
| HAP | Hazardous Air Pollutant as | SO ₂ | Sulfur dioxide |
| | defined by LRAPA title 44 | Special | As defined in LRAPA title 29 |
| lb | pound(s) | Control Area | |
| LRAPA | Lane Regional Air Protection | VE | Visible emissions |
| | Agency | VOC | Volatile organic compound |
| MMBtu | Million British thermal units | Year | A period consisting of any 12- |
| MMcf | Million cubic feet | | consecutive calendar months |

Detail Sheets:

| Emission Units | PM | PM ₁₀ | PM _{2.5} | со | NOx | SO ₂ | VOC (1) | Single HAP * | Aggregate HAP * | GHG |
|---|------|------------------|-------------------|------|------|-----------------|---------|-----------------|--------------------|------|
| | tpy | tpy | tpy | tpy | tpy | tpy | tpy | tpy | tpy | tpy |
| EU-1: Surface Coaters: VOC Emissions ⁽¹⁾ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62.02 | 0.23 | 0.46 | 0.0 |
| Aggregate Insignificant Activities: | | | | | | | | | | |
| EU-1: Surface Coaters PM Emissions | 0.23 | 0.23 | 0.23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 |
| Sawdust Handling System | 0.21 | 0.21 | 0.21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 |
| Combustion Units | 0.02 | 0.02 | 0.02 | 0.78 | 0.93 | 0.02 | 0.05 | 0.0 | 0.0 | 1115 |
| Potential to Emit (PTE) | 0.46 | 0.46 | 0.46 | 0.78 | 0.93 | 0.02 | 62.07 | 0.23 | 0.46 | 1115 |
| PSELs | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62 | 0.00 | 0.00 | 0.0 |

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| Dellutent | Deserving (1) | Netting | Basis ⁽²⁾ | | mission Limit EL) ⁽³⁾ | PSEL | PTE | Increase | eed |
|---|-------------------------|----------------|----------------------|--------------------|-------------------------------------|-----------------|-----------------|-----------------------|--------|
| Pollutant | Baseline ⁽¹⁾ | Previous | Proposed | Previous PSEL | Proposed PSEL | Increase | Emissions | over Netting Basis | SER |
| | tpy | tpy | tpy | tpy | tpy | tpy | tpy | tpy | tpy |
| РМ | 0.0 | 0.0 | 0.0 | 24 | 0.0 | -24.0 | 0.46 | 0.46 | 25 |
| PM ₁₀ | 0.0 | 0.0 | 0.0 | 14 | 0.0 | -14.0 | 0.46 | 0.46 | 15 |
| PM _{2.5} | NA | 0.0 | 0.0 | 9.0 | 0.0 | -9.0 | 0.46 | -0.50 | 10 |
| СО | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.78 | 0.0 | 99 |
| NO _X | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.93 | 0.0 | 39 |
| SO ₂ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.02 | 0.0 | 39 |
| VOC | 0.0 | 0.0 | 0.0 | 70 | 62 | -8.0 | 62.07 | 62.0 | 39 |
| GHG ⁽³⁾ | 1,091 | 1,091 | 1,091 | 74,000 | 0.0 | -74,000.0 | 1,115 | -1091.0 | 74,000 |
| Individual HAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.23 | 0.0 | 9 |
| Combined HAP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.46 | 0.0 | 24 |
| (1) Baseline emiss baseline years. | ion rates (BERs) ł | nave been set | at zero (0) for | all criteria pollu | tants because t | he facility was | not in operatio | on during the 19 | 78 |
| (1) BER for PM _{2.5} | was not establishe | ed in accordan | ce with LRAP | A 42-0048(3). | | | | | |
| (1) BER for GHG w | vas evaluated for y | ear 2006 the f | acility in acco | dance with LRA | APA 42-0048(b). | | | | |
| (2) Proposed nettir | ng for VOC was es | tablished acc | ording to LRAF | PA 42-0046(3)(e | e)(B). | | | | |
| (2) Proposed nettir | ng basis for GHG v | vas establishe | ed according to | LRAPA 42-004 | 46(a)(b) | | | | |
| () ··································· | 5 | | | | - (/(-/- | | | | |

(2) For all other pollutants the netting is zero because the facility was constructed after the 1978 baseline year.

(3) PSELs VOC was set according to LRAPA 42-0041(2). All other pollutants were below the de minimis level.

| Mass Balance VOC Equation | | | | | | | | | |
|---|-----------------|-----------|--|--|--|--|--|--|--|
| E = RM x D x %VOC | | | | | | | | | |
| Where: | | Unit | | | | | | | |
| E = | Total Emissions | tpy | | | | | | | |
| RM = | Raw materials | gallons | | | | | | | |
| D = | Density of RM | lb/gal | | | | | | | |
| VOC (average) | Percent of VOC | % | | | | | | | |
| | | | | | | | | | |
| Information: | Amount | Units: | | | | | | | |
| Raw Material | 2,000 | gal/month | | | | | | | |
| Density of RM | 9.77 | lb/gal | | | | | | | |
| Weigted Average VOC | 52.90 | % | | | | | | | |
| | | | | | | | | | |
| E = | 10,337 | lb/month | | | | | | | |
| E = | 124,040 | lb/year | | | | | | | |
| E = | 62.02 | tons/year | | | | | | | |
| | | | | | | | | | |
| Using the top five (5) products used at the facility for the last | | | | | | | | | |
| five (5) years, the highest VOC and density were used to | | | | | | | | | |
| calculate VOC emissions. | | | | | | | | | |

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| | | | | | | | | | | | AIR CONTAI | | | | | |
|----------------------|---------------------------------|----------------------|-------------------------|-----------------|----------------|----------|--------------------|-----------------------|------------------|--------------------|------------|-------------------------------------|------|----------|-----------|---|
| | | Actual Throughput | Potential Throughput | | Ethyler | e glycol | Hexameth diisoc | ylene- 1,6- yanate | Isopropy (Cun | l benzene nene) | | ULUTANTS outyl ketone hexane) | Toli | uene | m-xylene, | ure), including o-xylene, p- lene |
| | | (gal) ⁽¹⁾ | (gal) ⁽²⁾ | | 107 | -21-1 | 822 | -06-0 | 98- | 82-8 | 108 | -10-1 | 108 | -88-3 | 1330 | 0-20-7 |
| Manufacturer | Product Type | (84.) | (84.) | Density | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year |
| Sherwin Williams | V66 Catalyst | 0 | 3 | 7.34 | | | 0.13% | 0.029 | 0.30% | 0.066 | | | | | | |
| Sherwin Williams | Conventional Lacquer Clear | 190 | 570 | 7.97 | | | | | | | 10% | 454.290 | 10% | 454.290 | | |
| Sherwin Williams | Clear UV V86 FH643 | 22684 | 68052 | 8.73 | | | | | | | | | | | | |
| Sherwin Williams | Hydroplus Clear Topcoat | 60 | 180 | 8.59 | | | | | | | | | | | | |
| Sherwin Williams | White UV V86WH556 | 839 | 2517 | 9.77 | | | | | | | | | | | | |
| Heubach | Hostafine White Concentrate | 224 | 672 | 8.73 | | | | | | | | | | | | |
| Heubach | Hostafine Black Concentrate | 22 | 66 | 9.1 | | | | | | | | | | | | |
| Heubach | Hostafine Red Concentrate | 22 | 66 | 8.8 | | | | | | | | | | | | |
| Heubach | Hostafine Yellow Concentrate | 42 | 126 | 11.5 | | | | | | | | | | | | |
| Sherwin Williams | Stain Base S67 | 11914 | 35742 | 8.35 | | | | | | | | | | | | |
| Sherwin Williams | Wood Putty | 0 | 3 | 10.4 | | | | | | | | | | | | |
| Sherwin Williams | KEM Aqua Lacquer T75F558 | 0 | 3 | 8.5 | 3.0% | 0.765 | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Mocha | 1 | 3 | 7.74 | | | | | | | | | | | 1.0% | 0.232 |
| Sherwin Williams | S64 Wiping Stain, Gunmetal | 4 | 12 | 8.00 | 3.0% | 2.88 | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Caramel | 12 | 36 | 7.17 | 3.0% | 7.74 | | | | | | | | | | |
| Sherwin Williams | Acetone | 935 | 2805 | 6.59 | | | | | | | | | | | | |
| | TOTALS: po | ounds/year | | | | 11.39 | | 0.03 | | 0.07 | | 454.29 | | 454.29 | | 0.23 |
| | TOTALS | tons/year | | | 1 | 5.69E-03 | | 1.43E-05 | | 3.30E-05 | 1 | 2.27E-01 | | 2.27E-01 | 1 | 1.16E-04 |
| 1. Actual throughpu | It is based 2023 product usage. | • | | | - | • | | | | • | | | | | | |
| 2. Potential through | put was based on a conservative | estimate using 20 | 23 actual product | usage multiplie | d by 3 shifts. | | | | | | 1 | | | | | |

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| | | | | | | | | | OREG | ON TOXIC A | IR CONTAMI | NANTS | | | | |
|------------------|------------------------------|--|---|---------|----------|--------------------------|---------|-------------------------------|------------|--------------|------------|----------------------|------|--------------------------------|--------|---------------------------------|
| | | Actual Throughput (gal) ⁽¹⁾ | Potential Throughput (gal) ⁽²⁾ | | Trimethy | 2,4- Ibenzene 63-6 | ethyl I | ne (methyl ketone) 93-3 | Ace 67- | tone 64-1 | - | yl phthalate 68-7 | | ne glycol tyl ether 34-5 | monoet | ne glycol hyl ether -90-0 |
| Manufacturer | Product Type | (gar) | (gai) | Density | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year |
| Sherwin Williams | V66 Catalyst | 0 | 3 | 7.34 | 90% | 19.789 | | | | | | | | | | |
| Sherwin Williams | Conventional Lacquer Clear | 190 | 570 | 7.97 | | | 21% | 954.009 | | | | | | | | |
| Sherwin Williams | Clear UV V86 FH643 | 22684 | 68052 | 8.73 | | | | | | | | | | | | |
| Sherwin Williams | Hydroplus Clear Topcoat | 60 | 180 | 8.59 | | | | | | | | | 2.9% | 44.840 | 2.9% | 44.840 |
| Sherwin Williams | White UV V86WH556 | 839 | 2517 | 9.77 | | | | | | | | | | | | |
| Heubach | Hostafine White Concentrate | 224 | 672 | 8.73 | | | | | | | | | | | | |
| Heubach | Hostafine Black Concentrate | 22 | 66 | 9.1 | | | | | | | | | | | | |
| Heubach | Hostafine Red Concentrate | 22 | 66 | 8.8 | | | | | | | | | | | | |
| Heubach | Hostafine Yellow Concentrate | 42 | 126 | 11.5 | | | | | | | | | | | | |
| Sherwin Williams | Stain Base S67 | 11914 | 35742 | 8.35 | | | | | | | | | | | | |
| Sherwin Williams | Wood Putty | 0 | 3 | 10.4 | | | | | | | 5.0% | 1.560 | | | | |
| Sherwin Williams | KEM Aqua Lacquer T75F558 | 0 | 3 | 8.5 | | | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Mocha | 1 | 3 | 7.74 | | | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Gunmetal | 4 | 12 | 8.00 | | | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Caramel | 12 | 36 | 7.17 | | | | | | | | | | | | |
| Sherwin Williams | Acetone | 935 | 2805 | 6.59 | | | | | 90% | 16636 | | | | | | |
| | TOTALS: po | ounds/year | | | | 19.79 | | 954.01 | | 16636.46 | | 1.56 | | 44.84 | | 44.84 |
| | TOTALS: | tons/year | | | | 9.89E-03 | | 4.77E-01 | | 8.32E+00 | | 7.80E-04 | | 2.24E-02 | | 2.24E-02 |

| | | | | | | | | | | OREG | ON TOXIC A | IR CONTAMIN | NANTS | | | | | |
|------------------|------------------------------|----------------------|-------------------------|---------|---------------------|--------------------------|---------|---------------------------------------|------|-----------------------|------------|----------------------|--------|----------------------------------|------|-----------------------|------|-------------------------|
| | | Actual Throughput | Potential Throughput | | Dipropyle monome | ene glycol thyl ether | monobut | ie glycol yl ether (2- ethanol) | | alcohol (2- banol) | | ilcohol (1- anol) | monome | ne glycol thyl ether etate | | rystalline irable) | | ontaining orm fibers |
| | | (gal) ⁽¹⁾ | (gal) ⁽²⁾ | | 3459 | 0-94-8 | 111 | -76-2 | 67- | 63-0 | 71- | 36-3 | 108 | -65-6 | 7631 | 1-86-9 | 3 | 58 |
| Manufacturer | Product Type | | | Density | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year | % wt | lb/year |
| Sherwin Williams | V66 Catalyst | 0 | 3 | 7.34 | | | | | | | | | | | | | | |
| Sherwin Williams | Conventional Lacquer Clear | 190 | 570 | 7.97 | | | 5.0% | 227.145 | 25% | 1135.725 | 3.0% | 136.287 | 10% | 454.290 | | | | |
| Sherwin Williams | Clear UV V86 FH643 | 22684 | 68052 | 8.73 | | | | | | | | | | | | | | |
| Sherwin Williams | Hydroplus Clear Topcoat | 60 | 180 | 8.59 | | | 3.0% | 46.386 | | | | | | | | | | |
| Sherwin Williams | White UV V86WH556 | 839 | 2517 | 9.77 | | | | | | | | | | | 3.0% | 737.733 | 10% | |
| Heubach | Hostafine White Concentrate | 224 | 672 | 8.73 | | | | | | | | | | | | | | |
| Heubach | Hostafine Black Concentrate | 22 | 66 | 9.1 | | | | | | | | | | | | | | |
| Heubach | Hostafine Red Concentrate | 22 | 66 | 8.8 | | | | | | | | | | | | | | |
| Heubach | Hostafine Yellow Concentrate | 42 | 126 | 11.5 | | | | | | | | | | | | | | |
| Sherwin Williams | Stain Base S67 | 11914 | 35742 | 8.35 | | | | | 5.0% | 14922.285 | | | | | | | | |
| Sherwin Williams | Wood Putty | 0 | 3 | 10.4 | | | | | | | | | | | 1.0% | 0.312 | | |
| Sherwin Williams | KEM Aqua Lacquer T75F558 | 0 | 3 | 8.5 | 3.0% | 0.765 | 3.0% | 0.765 | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Mocha | 1 | 3 | 7.74 | | | | | | | | | | | | | 3.0% | 0.697 |
| Sherwin Williams | S64 Wiping Stain, Gunmetal | 4 | 12 | 8.00 | | | | | | | | | | | | | | |
| Sherwin Williams | S64 Wiping Stain, Caramel | 12 | 36 | 7.17 | | | 3.0% | 7.744 | | | | | | | | | | |
| Sherwin Williams | Acetone | 935 | 2805 | 6.59 | | | | | | | | | | | | | | |
| | TOTALS: po | ounds/year | | | | 0.77 | | 282.04 | | 16058.01 | | 136.29 | | 454.29 | | 738.04 | | 0.70 |
| | TOTALS | tons/vear | | | 1 | 3.83E-04 | | 1.41E-01 | | 8.03E+00 | | 6.81E-02 | | 2.27E-01 | 1 | 3.69E-01 | | 3.48E-04 |
| | | - | | | | | | | | | | | | | | | | |

| PM Emissions f | PM Emissions from Surface Coaters | | | | | | | | |
|-------------------|-----------------------------------|------------|--|--|--|--|--|--|--|
| Information | | | | | | | | | |
| Overspray Percent | 20 | % | | | | | | | |
| Filter Efficiency | 99 | % | | | | | | | |
| Emission Factor | 0.002 | | | | | | | | |
| Conversion | 2000 | lb/ton | | | | | | | |
| Conversion | 12 | month/year | | | | | | | |

| EU-2: Surface Coaters | | | | | | | | | |
|-----------------------------------|-----------------|----------------------|--|--|--|--|--|--|--|
| Surface Coater Throughput | 2000 | gallons/month | | | | | | | |
| Density of coatings (averaged) | 9.77 | lb/gal | | | | | | | |
| Total throughput of coaters | 19540 | lbs/month | | | | | | | |
| EF | 0.002 | | | | | | | | |
| Total monthly PM emissions | 39.08 | lb/month | | | | | | | |
| Total PM emissions | 0.23 | tons/year | | | | | | | |
| · | | | | | | | | | |
| Emission factor are based on over | spray of 20% du | uring application of | | | | | | | |

the coating and a filter efficiency of 99%.

The density was based on the weighted average density of the 4 most used products from 2019-2022.

| Sawdust Handling System | | | | |
|--|---------------------|------------------------------|--|--|
| Baghouse(s) Throughput: Dry Chips, Shavings, Sawdust w/ Baghouse Control | | | | |
| Emission Factor | 0.001 | lb/dry bone ton (BDT) | | |
| Sawdust Handling Throughput | 10000 | BDT/year | | |
| | 10 | lb | | |
| Total PM Emission | 0.01 | tons/year | | |
| Baghouse(s) Throughput: Sanderdust w/ Baghouse Control | | | | |
| Emission Factor | 0.04 | lb/dry bone ton (BDT) | | |
| Sawdust Handling Throughput | 10000 | BDT/year | | |
| Total PM Emission | 400 | lb | | |
| | 0.20 | tons/year | | |
| Total PM | 0.21 | tons/year | | |
| | | | | |
| For PM emissions DEQ /AQ-EF02 I | Emission Factors Cy | clone - Dry and Green chips, | | |
| Shavings, Hogged Fuel/Bark, Gree | en Sawdust - Bagho | use control was used | | |
| For PM emissions DEQ /AQ-EF02 I Baghouse control. | Emission Factors Cy | clone -Sanderdust using | | |

 PM_{10} and $PM_{2.5}$ are fractions of PM and are de minimis

| Combustion Specifications | | | | |
|---------------------------|-------|------------|--|--|
| Max Heat Input | 2.173 | MMBtu/hr | | |
| Heat Value - Natural Gas | 1026 | MMBtu/MMCF | | |
| Max Hrs Operation | 8760 | hr/yr | | |

| Criteria Pollutants | NG Emission Factor (Ib/MMCF) | NG Emission Factor Units | Potential Emissions (TPY) |
|--|------------------------------------|--------------------------------|---------------------------------|
| PM/PM ₁₀ /PM _{2.5} | 2.5 | lbs/MMCF | 0.02 |
| Carbon Monoxide | 84 | lbs/MMCF | 0.78 |
| Nitrogen Oxides | 100 | lbs/MMCF | 0.93 |
| Sulfur Dioxide | 1.7 | lbs/MMCF | 0.02 |
| VOCs | 5.5 | lbs/MMCF | 0.05 |
| GHGs (CO ₂ equiv.) | 117 | lbs/MMBtu | 1,115 |

Combustion FHAP/TAC Emissions

| FHAP/TAC Emissions | CAS | NG Emission | Potential | Federal HAP | CAO Air Toxic |
|----------------------|------------|-------------------|-----------|-------------|---------------|
| | | Factor | Emissions | | |
| | | (Ib/MMCF) | (TPY) | | |
| Organics | | | | | |
| Acetaldehyde | 75-07-0 | 0.0031 | 2.88E-05 | Yes | Yes |
| Acrolein | 67-64-1 | 0.0027 | 2.50E-05 | Yes | Yes |
| Benzene | 107-02-8 | 0.0058 | 5.38E-05 | Yes | Yes |
| Ethyl Benzene | 100-41-4 | 0.0069 | 6.40E-05 | Yes | Yes |
| Formaldehyde | 50-00-0 | 0.0123 | 1.14E-04 | Yes | Yes |
| Hexane | 100-54-3 | 0.0046 | 4.27E-05 | Yes | Yes |
| Naphthalene | 91-20-3 | 0.0003 | 2.78E-06 | Yes | Yes |
| POM (inc. PAHs) | | 0.0004 | 3.71E-06 | Yes | Yes |
| Propylene | 115-07-1 | 0.5300 | 4.92E-03 | No | Yes |
| Toluene | 108-88-3 | 0.0265 | 2.46E-04 | Yes | Yes |
| Xylenes | 1330-20-7 | 0.0197 | 1.83E-04 | Yes | Yes |
| Inorganic Gases | | | | | |
| Ammonia | 7664-41-7 | 3.2000 | 2.97E-02 | No | Yes |
| Metals | | | | | |
| Arsenic | 7440-38-2 | 2.0E-04 | 1.86E-06 | Yes | Yes |
| Beryllium | 7440-41-7 | 1.2E-05 | 1.11E-07 | Yes | Yes |
| Cadmium | 7440-43-9 | 1.1E-03 | 1.02E-05 | Yes | Yes |
| Chromium, Hexavalent | 18540-29-9 | 1.4E-03 | 1.30E-05 | Yes | Yes |
| Manganese | 7439-96-5 | 3.8E-04 | 3.53E-06 | Yes | Yes |
| Mercury | 7439-97-6 | 2.6E-04 | 2.41E-06 | Yes | Yes |
| Nickel | 7440-02-0 | 2.1E-03 | 1.95E-05 | Yes | Yes |
| Selenium | 7782-49-2 | 2.4E-05 | 2.23E-07 | Yes | Yes |
| | | Total Emissions = | 3.5E-02 | 8.1E-04 | 3.5E-02 |

Surface Coaters and Combustion FHAP/TAC Emissions

| | CAS | Potential | Federal HAP | CAO Air Toxic |
|---|------------|-----------|-------------|---------------|
| FHAP/TAC Emissions | | Emissions | | |
| | | (TPY) | - | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 9.89E-03 | No | Yes |
| 2-Butanone (methyl ethyl ketone) | 78-93-3 | 4.77E-01 | No | Yes |
| Acetaldehyde | 75-07-0 | 2.88E-05 | Yes | Yes |
| Acetone | 67-64-1 | 8.32E+00 | No | Yes |
| Acrolein | 67-64-1 | 2.50E-05 | Yes | Yes |
| Ammonia | 7664-41-7 | 2.97E-02 | Yes | Yes |
| Arsenic | 7440-38-2 | 1.86E-06 | Yes | Yes |
| Benzene | 107-02-8 | 5.38E-05 | Yes | Yes |
| Beryllium | 7440-41-7 | 1.11E-07 | Yes | Yes |
| Butyl benzyl phthalate | 85-68-7 | 7.80E-04 | No | Yes |
| Cadmium | 7440-43-9 | 1.02E-05 | Yes | Yes |
| Chromium, Hexavalent | 18540-29-9 | 1.30E-05 | Yes | Yes |
| Diethylene glycol monobutyl ether | 112-34-5 | 2.24E-02 | No | Yes |
| Diethylene glycol monoethyl ether | 111-90-0 | 2.24E-02 | No | Yes |
| Dipropylene glycol monomethyl ether | 34590-94-8 | 3.83E-04 | No | Yes |
| Ethyl Benzene | 100-41-4 | 6.40E-05 | Yes | Yes |
| Ethylene glycol | 107-21-1 | 5.69E-03 | Yes | Yes |
| Ethylene glycol monobutyl ether (2-Butoxyethanol) | 111-76-2 | 1.41E-01 | No | Yes |
| Formaldehyde | 50-00-0 | 1.14E-04 | Yes | Yes |
| Hexamethylene- 1,6-diisocyanate | 822-06-0 | 1.43E-05 | Yes | Yes |
| Hexane | 100-54-3 | 4.27E-05 | Yes | Yes |
| Isopropyl alcohol (2-Propanol) | 67-63-0 | 8.03E+00 | No | Yes |
| Isopropyl benzene (Cumene) | 98-82-8 | 3.30E-05 | Yes | Yes |
| Manganese | 7439-96-5 | 3.53E-06 | Yes | Yes |
| Mercury | 7439-97-6 | 2.41E-06 | Yes | Yes |
| Methyl isobutyl ketone (MIBK, hexane) | 108-10-1 | 2.27E-01 | Yes | Yes |
| n-Butyl alcohol (1-Butanol) | 71-36-3 | 6.81E-02 | No | Yes |
| Naphthalene | 91-20-3 | 2.78E-06 | Yes | Yes |
| Nickel | 7440-02-0 | 1.95E-05 | Yes | Yes |
| POM (inc. PAHs) | | 3.71E-06 | Yes | Yes |
| Propylene | 115-07-1 | 4.92E-03 | No | Yes |
| Propylene glycol monomethyl ether acetate | 108-65-6 | 2.27E-01 | No | Yes |
| Selenium | 7782-49-2 | 2.23E-07 | Yes | Yes |
| Silica, crystalline (respirable) | 7631-86-9 | 3.69E-01 | No | Yes |
| Talc containing asbestiform fibers | 358* | 3.48E-04 | No | Yes |
| Toluene | 108-88-3 | 2.27E-01 | Yes | Yes |
| Xylenes | 1330-20-7 | 2.34E-04 | Yes | Yes |
| | | 1.82E+01 | 4.90E-01 | 1.82E+01 |