

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

December 3, 2019

PERMIT TO INSTALL
1004-901

ISSUED TO
Pioneer Cabinetry, Inc.

LOCATED AT
301 West Rising Street
Davison, Michigan

IN THE COUNTY OF
Genesee

STATE REGISTRATION NUMBER
N2664

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

| | |
|---|------------|
| DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: October 14, 2019 | |
| DATE PERMIT TO INSTALL APPROVED: December 3, 2019 | SIGNATURE: |
| DATE PERMIT VOIDED: | SIGNATURE: |
| DATE PERMIT REVOKED: | SIGNATURE: |

PERMIT TO INSTALL

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COMMON ACRONYMS

| | |
|----------------------------|---|
| AQD | Air Quality Division |
| BACT | Best Available Control Technology |
| CAA | Clean Air Act |
| CAM | Compliance Assurance Monitoring |
| CEMS | Continuous Emission Monitoring System |
| CFR | Code of Federal Regulations |
| COMS | Continuous Opacity Monitoring System |
| Department/department/EGLE | Michigan Department of Environment, Great Lakes, and Energy |
| EU | Emission Unit |
| FG | Flexible Group |
| GACS | Gallons of Applied Coating Solids |
| GC | General Condition |
| GHGs | Greenhouse Gases |
| HVLP | High Volume Low Pressure* |
| ID | Identification |
| IRSL | Initial Risk Screening Level |
| ITSL | Initial Threshold Screening Level |
| LAER | Lowest Achievable Emission Rate |
| MACT | Maximum Achievable Control Technology |
| MAERS | Michigan Air Emissions Reporting System |
| MAP | Malfunction Abatement Plan |
| MSDS | Material Safety Data Sheet |
| NA | Not Applicable |
| NAAQS | National Ambient Air Quality Standards |
| NESHAP | National Emission Standard for Hazardous Air Pollutants |
| NSPS | New Source Performance Standards |
| NSR | New Source Review |
| PS | Performance Specification |
| PSD | Prevention of Significant Deterioration |
| PTE | Permanent Total Enclosure |
| PTI | Permit to Install |
| RACT | Reasonable Available Control Technology |
| ROP | Renewable Operating Permit |
| SC | Special Condition |
| SCR | Selective Catalytic Reduction |
| SNCR | Selective Non-Catalytic Reduction |
| SRN | State Registration Number |
| TBD | To Be Determined |
| TEQ | Toxicity Equivalence Quotient |
| USEPA/EPA | United States Environmental Protection Agency |
| VE | Visible Emissions |

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig

POLLUTANT / MEASUREMENT ABBREVIATIONS

| | |
|-------------------|--|
| acfm | Actual cubic feet per minute |
| BTU | British Thermal Unit |
| °C | Degrees Celsius |
| CO | Carbon Monoxide |
| CO ₂ e | Carbon Dioxide Equivalent |
| dscf | Dry standard cubic foot |
| dscm | Dry standard cubic meter |
| °F | Degrees Fahrenheit |
| gr | Grains |
| HAP | Hazardous Air Pollutant |
| Hg | Mercury |
| hr | Hour |
| HP | Horsepower |
| H ₂ S | Hydrogen Sulfide |
| kW | Kilowatt |
| lb | Pound |
| m | Meter |
| mg | Milligram |
| mm | Millimeter |
| MM | Million |
| MW | Megawatts |
| NMOC | Non-Methane Organic Compounds |
| NO _x | Oxides of Nitrogen |
| ng | Nanogram |
| PM | Particulate Matter |
| PM10 | Particulate Matter equal to or less than 10 microns in diameter |
| PM2.5 | Particulate Matter equal to or less than 2.5 microns in diameter |
| pph | Pounds per hour |
| ppm | Parts per million |
| ppmv | Parts per million by volume |
| ppmw | Parts per million by weight |
| psia | Pounds per square inch absolute |
| psig | Pounds per square inch gauge |
| scf | Standard cubic feet |
| sec | Seconds |
| SO ₂ | Sulfur Dioxide |
| TAC | Toxic Air Contaminant |
| Temp | Temperature |
| THC | Total Hydrocarbons |
| tpy | Tons per year |
| µg | Microgram |
| µm | Micrometer or Micron |
| VOC | Volatile Organic Compounds |
| yr | Year |

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

| Emission Unit ID | Emission Unit Description (Including Process Equipment & Control Device(s)) | Installation Date / Modification Date | Flexible Group ID |
|-------------------------|---|--|--------------------------|
| EUBOOTH1A | Binks dry filter wood coating booth for applying solvent based stains. Once stain is applied, the parts are allowed to dry overnight before the coating process is completed or the parts are moved to booth 1B, booth 2 or booth 4. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility. | 05-03-2002 / Date of PTI Issuance | FGFACILITY |
| EUBOOTH1B | Binks dry filter wood coating booth for applying washcoats and basecoats. Once coating is applied, the parts are allowed to dry overnight before the coating process is completed or the parts are moved to booth 1A, booth 2 or booth 4. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility. | 05-03-2002 | FGFACILITY |
| EUBOOTH2 | Binks dry filter wood coating booth for applying sealers and topcoats. Once coating is applied, the parts are allowed to dry overnight before the coating process is completed or on rare occasions the parts are moved to booth 4 for additional coating application. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility. | 04-20-1998 | FGFACILITY |
| EUBOOTH4 | Superfici Spray Line: Binks dry filter wood coating booth for application of sealers, topcoats, and basecoats. Once coating is applied, the parts will be allowed to dry overnight before the coating process is completed. If a finished part does not pass quality requirements, the part would be subject to another coating application in same booth or moved to booth 2 for a rework coating application. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility. | 12-17-2013 / Date of PTI Issuance | FGFACILITY |

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

**EUBOOTH1A
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Binks dry filter wood coating booth for applying solvent based stains. Once stain is applied, the parts are allowed to dry overnight before the coating process is completed or the parts are moved to booth 1B, booth 2 or booth 4. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dry filters for particulate control.

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------------------|--------------|--|------------------|------------------------------------|---|
| 1. VOCs and Acetone combined | 10.0 tpy | 12-month rolling time period as determined at the end of each calendar month | EUBOOTH1A | SC VI.1 - SC VI.4 | R 336.1224, R 336.1702(a) |

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of, in accordance with all applicable regulations, a minimum of 90 percent by weight of all purge solvents used for EUBOOTH1A. **(R 336.1224, R 336.1702(a))**
2. The permittee shall capture all waste stain, sealer, topcoat, purge and cleanup solvents, *etc.* (materials) and store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
3. The permittee shall handle all VOC and / or HAP containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUBOOTH1A unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910)**
2. The permittee shall equip and maintain EUBOOTH1A with HVLP applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the VOC content, water content and density of any coating material, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1224, R 336.1702(a))
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each stain, sealer, topcoat, purge and cleanup solvents, etc. (material), including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1702)
3. The permittee shall keep the following information on a calendar month basis for EUBOOTH1A:
 - a) Gallons (with water) of each stain, sealer, topcoat, purge and cleanup solvents, etc. (material) used.
 - b) VOC and acetone content (with water) of each material as applied.
 - c) VOC and acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC and acetone mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1224, R 336.1702(a))

4. The permittee shall keep the following information on a calendar month basis for the use of purge and clean-up solvents associated with EUBOOTH1A:
 - a) Calculation of the percentage of purge and clean-up solvents recovered, reclaimed, recycled or disposed of.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1224, R 336.1702(a))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust Diameter / Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|----------------------------|---|---|---|
| 1. SVBOOTH1A | 36 | 40 | R 336.1225, 40 CFR 52.21(c) & (d) |

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**EUBOOTH1B
EMISSION UNIT CONDITIONS**

DESCRIPTION

Binks dry filter wood coating booth for applying washcoats and basecoats. Once coating is applied, the parts are allowed to dry overnight before the coating process is completed or the parts are moved to booth 1A, booth 2 or booth 4. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dry filters for particulate control.

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------------------|--------------|--|------------------|--|---|
| 1. VOCs and Acetone combined | 10.5 tpy | 12-month rolling time period as determined at the end of each calendar month | EUBOOTH1B | SC VI.1 - SC VI.4 | R 336.1224, R 336.1702(a) |

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of, in accordance with all applicable regulations, a minimum of 90 percent by weight of all purge solvents used for EUBOOTH1B. **(R 336.1224, R 336.1702(a))**
2. The permittee shall capture all waste stain, sealer, topcoat, purge and cleanup solvents, *etc.* (materials) and store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
3. The permittee shall handle all VOC and / or HAP containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUBOOTH1B unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910)**
2. The permittee shall equip and maintain EUBOOTH1B with HVLP applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each stain, sealer, topcoat, purge and cleanup solvents, etc. (material), including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for EUBOOTH1B:
 - a) Gallons (with water) of each stain, sealer, topcoat, purge and cleanup solvents, etc. (material) used.
 - b) VOC and acetone content (with water) of each material as applied.
 - c) VOC and acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC and acetone mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**

4. The permittee shall keep the following information on a calendar month basis for the use of purge and clean-up solvents associated with EUBOOTH1B:
 - a) Calculation of the percentage of purge and clean-up solvents recovered, reclaimed, recycled or disposed of.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust Diameter / Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|----------------------------|---|---|---|
| 1. SVBOOTH1B | 36 | 40 | R 336.1225, 40 CFR 52.21(c) & (d) |

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**EUBOOTH2
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Binks dry filter wood coating booth for applying sealers and topcoats. Once coating is applied, the parts are allowed to dry overnight before the coating process is completed or on rare occasions the parts are moved to booth 4 for additional coating application. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dry filters for particulate control.

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------------------|--------------|--|------------------|------------------------------------|---|
| 1. VOCs and Acetone combined | 29.3 tpy | 12-month rolling time period as determined at the end of each calendar month | EUBOOTH2 | SC VI.1 - SC VI.4 | R 336.1224, R 336.1702(a) |

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of, in accordance with all applicable regulations, a minimum of 90 percent by weight of all purge solvents used for EUBOOTH2. **(R 336.1224, R 336.1702(a))**
2. The permittee shall capture all waste stain, sealer, topcoat, purge and cleanup solvents, etc. (materials) and store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
3. The permittee shall handle all VOC and / or HAP containing materials, including coatings, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUBOOTH2 unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910)**
2. The permittee shall equip and maintain EUBOOTH2 with air assisted airless applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall determine the VOC content, water content and density of any coating material, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each stain, sealer, topcoat, purge and cleanup solvents, *etc.* (material), including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for EUBOOTH2:
 - a) Gallons (with water) of each stain, sealer, topcoat, purge and cleanup solvents, *etc.* (material) used.
 - b) VOC and acetone content (with water) of each material as applied.
 - c) VOC and acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC and acetone mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**

4. The permittee shall keep the following information on a calendar month basis for the use of purge and clean-up solvents associated with EUBOOTH2:
 - a) Calculation of the percentage of purge and clean-up solvents recovered, reclaimed, recycled or disposed of.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust Diameter / Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|----------------------------|---|---|---|
| 1. SVBOOTH2 | 36 | 33 | R 336.1225, 40 CFR 52.21(c) & (d) |

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**EUBOOTH4
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Superfici Spray Line - Binks dry filter wood coating booth for application of sealers, topcoats, and basecoats. Once coating is applied, the parts will be allowed to dry overnight before the coating process is completed. If a finished part does not pass quality requirements, the part would be subject to another coating application in same booth or moved to booth 2 for a rework coating application. Solvent reclaim is accomplished by a distillation still or the material is sent to an off-site recovery facility.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dry filters for particulate control.

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|------------------------------|--------------|--|------------------|------------------------------------|---|
| 1. VOCs and acetone combined | 38.4 tpy | 12-month rolling time period as determined at the end of each calendar month | EUBOOTH4 | SC VI.1 – SC VI.4 | R 336.1224, R 336.1702(a) |
| 2. Formaldehyde | 52.56 lb/yr | 12-month rolling time period as determined at the end of each calendar month | EUBOOTH4 | SC VI.5 | R 336.1225(1) |
| 3. Ethylbenzene | 262.8 lb/yr | 12-month rolling time period as determined at the end of each calendar month | EUBOOTH4 | SC VI.5 | R 336.1225(1) |

II. MATERIAL LIMIT(S)

| Material | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|-----------------|--|---|------------------|------------------------------------|---|
| 1. VOCs | 5.9 lb/gal (minus water) ^a as applied for washcoats | Instantaneous | EUBOOTH4 | SC V.1, SC VI.2 | R 336.1702(a) |
| 2. VOCs | 5.0 lb/gal (minus water) ^a as applied for sealer | Instantaneous | EUBOOTH4 | SC V.1, SC VI.2 | R 336.1702(a) |
| 3. VOCs | 5.0 lb/gal (minus water) ^a as applied for topcoat | Instantaneous | EUBOOTH4 | SC V.1, SC VI.2 | R 336.1702(a) |

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of, in accordance with all applicable regulations, a minimum of 90 percent by weight of all purge solvents used for EUBOOTH4. **(R 336.1224, R 336.1702(a))**
2. The permittee shall capture all waste stains, topcoats, clean-up solvents, *etc.* (materials) and store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**
4. The permittee shall handle all VOC and / or HAP containing materials, including stains, coatings, topcoats, reducers, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the booth portion of EUBOOTH4 unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain the spray booth portion of EUBOOTH4 with air assisted airless applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall determine the VOC content, water content and density of any coating material, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each stain, sealer, topcoat, purge and cleanup solvents, *etc.* (material), including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar day basis for EUBOOTH4:
 - a) Gallons (with water) of each stain, sealer, topcoat, purge and cleanup solvents, *etc.* (material) used.
 - b) VOC and acetone content (with water) of each material as applied.
 - c) VOC and acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC and acetone mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702)**

4. The permittee shall keep the following information on a calendar month basis for the use of purge and clean-up solvents associated with EUBOOTH4:
 - a) Calculation of the percentage of purge and clean-up solvents recovered, reclaimed, recycled or disposed of.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**

5. The permittee shall keep the following information on a calendar month basis for EUBOOTH4:
 - a) Gallons (with water) of each ethylbenzene and formaldehyde containing stain, sealer, topcoat, purge and cleanup solvents, etc. (material) used.
 - b) Ethylbenzene and formaldehyde content of each material as applied, each separately.
 - c) Ethylbenzene mass emission calculations determining the monthly emission rate in pounds per calendar month.
 - d) Formaldehyde mass emission calculations determining the monthly emission rate in pounds per calendar month.
 - e) Ethylbenzene mass emission calculations determining the annual emission rate in pounds per 12-month rolling time period as determined at the end of each calendar month.
 - f) Formaldehyde mass emission calculations determining the annual emission rate in pounds per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225(1))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EUBOOTH4. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust Diameter / Dimensions (inches) | Minimum Height Above Ground (feet) | Underlying Applicable Requirements |
|---|--|------------------------------------|------------------------------------|
| 1. SVBooth4 (Booth) | 18 | 37 | R 336.1225, 40 CFR 52.21(c) & (d) |
| 2. SVOven4 (Laminar Oven & Curing Oven) | 24 | 37 | R 336.1225, 40 CFR 52.21(c) & (d) |

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SPECIAL CONDITIONS

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

| Pollutant | Limit | Time Period / Operating Scenario | Equipment | Monitoring / Testing Method | Underlying Applicable Requirements |
|-----------------------------------|--------------------|--|------------------|------------------------------------|---|
| 1. VOCs and acetone combined | Less than 90.0 tpy | 12-month rolling time period as determined at the end of each calendar month | FGFACILITY | SC VI.1 – SC VI.3 | R 336.1205(3), R 336.1224 |
| 2. Each Individual HAP | Less than 9.0 tpy | 12-month rolling time period as determined at the end of each calendar month | FGFACILITY | SC VI.1, SC VI.2, SC VI.4 | R 336.1205(3) |
| 3. Aggregate HAPs | Less than 22.5 tpy | 12-month rolling time period as determined at the end of each calendar month | FGFACILITY | SC VI.1, SC VI.2, SC VI.4 | R 336.1205(3) |
| 4. Formaldehyde (CAS No. 50-00-0) | 0.2 tpy | 12-month rolling time period as determined at the end of each calendar month | FGFACILITY | SC VI.1, SC VI.2, SC VI.5 | R 336.1225(2) |

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the VOC content, water content and density of any coating material, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer’s formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))

2. The permittee shall determine the HAP content of any material as received and as applied, using manufacturer's formulation data. Upon request of the AQD District Supervisor, the permittee shall verify the manufacturer's HAP formulation data using EPA Test Method 311 or any other method approved by the AQD District Supervisor. **(R 336.1205(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3), R 336.1224, R 336.1225)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each stain, sealer, topcoat, purge and cleanup solvents, *etc.* (material), including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225)**
3. The permittee shall keep the following information on a calendar month basis for FGFACILITY:
 - a) Gallons of each VOC containing material used.
 - b) VOC content of each material as applied.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1205(3))**

4. The permittee shall keep the following information on a calendar month basis for FGFACILITY:
 - a) Gallons or pounds of each HAP containing material used.
 - b) Where applicable, gallons or pounds of each HAP containing material reclaimed.
 - c) HAP content, in pounds per gallon or pounds per pound, of each HAP containing material used.
 - d) Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month.
 - e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(3))**

5. The permittee shall keep the following information on a calendar month basis for FGFACILITY:
 - a) Gallons of each formaldehyde (CAS No. 50-00-0) containing material used.
 - b) Where applicable, gallons of each formaldehyde (CAS No. 50-00-0) containing material reclaimed.
 - c) The formaldehyde (CAS No. 50-00-0) content in pounds per gallon of each material used.
 - d) Formaldehyde (CAS No. 50-00-0) mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) Formaldehyde (CAS No. 50-00-0) mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.¹ **(R 336.1225(2))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).