

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

September 11, 2014  
Revised March 19, 2015

**PERMIT TO INSTALL**  
155-95E

**ISSUED TO**  
Nucraft Furniture Company

**LOCATED AT**  
5151 West River Driver  
Comstock Park, Michigan

**IN THE COUNTY OF**  
Kent

**STATE REGISTRATION NUMBER**  
A2254

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. 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: <b>September 3, 2014</b>	
DATE PERMIT TO INSTALL APPROVED: <b>September 11, 2014</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

## PERMIT TO INSTALL

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant / Measurement Abbreviations</b>	
AQD	Air Quality Division	BTU	British Thermal Unit
BACT	Best Available Control Technology	°C	Degrees Celsius
CAA	Clean Air Act	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
CO <sub>2</sub> e	Carbon Dioxide Equivalent	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H <sub>2</sub> S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	kW	Kilowatt
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO <sub>x</sub>	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM with aerodynamic diameter ≤10 microns
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM with aerodynamic diameter ≤ 2.5 microns
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonably Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO <sub>2</sub>	Sulfur Dioxide
SCR	Selective Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number	tpy	Tons per year
TAC	Toxic Air Contaminant	µg	Microgram
TEQ	Toxicity Equivalence Quotient	VOC	Volatile Organic Compound
VE	Visible Emissions	yr	Year

\* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

### 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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

**SPECIAL CONDITIONS**

**EMISSION UNIT SUMMARY TABLE**

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

<b>Emission Unit ID</b>	<b>Emission Unit Description (Process Equipment &amp; Control Devices)</b>	<b>Installation Date / Modification Date</b>	<b>Flexible Group ID</b>
EU-PAINTLINE	A coating line consisting of a spray booth (booth #10) with associated HVLP applicators, a flash-off booth, and an electric infra-red oven. Also, one coating line consisting of a spray booth (booth #6) with associated HVLP applicators, a flash-off booth, and an electric infra-red oven. Both of these coating booth systems are used for the application of paint to various substrates including wood furniture, metal parts, and plastic parts.	TBD	FG-FINISHING
EU-MAINLINE	This emission unit consists of the following spray booths, flash off booth(s), and ovens used for wood furniture coating: Stain booth (booth #1), Washcoat booth (booth #5), Fill Oven, Seal booth (booth #3), Seal Oven, Shade booth (booth #8), Topcoat booth (booth #4), Topcoat flash-off booth, Topcoat Oven. Parts may go through entire line (all booths and ovens listed) or through only portions of this line. Associated applicator(s) used for wood furniture coating. No metal parts or plastic parts coating is performed on this line.	NA	FG-FINISHING
EU-CTLINE	This emission unit consists of two booths and one oven identified as: CTStain booth (booth #11), CTSeal booth (booth #12), and CTSealOven. Associated applicator(s). The line is used for wood furniture coating only; no metal parts or plastic parts coating is performed on this line.	NA	FG-FINISHING
EU-GEOCELL	One spray booth (TUBE) and applicator(s) used for applying contact adhesive. No metal parts or plastic parts coating is performed on this line.	NA	FG-FINISHING
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 336.1290.			

**FLEXIBLE GROUP SUMMARY TABLE**

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

<b>Flexible Group ID</b>	<b>Flexible Group Description</b>	<b>Associated Emission Unit IDs</b>
FG-FINISHING	Wood furniture, metal, and plastic coating operations consisting of spray booths, associated application equipment, flash off areas/booths, and cleanup and purge solvents. Metal parts and plastic parts coating is only performed on EU-PAINTLINE.	EU-PAINTLINE, EU-MAINLINE, EU-CTLINE, EU-GEOCELL
FGFACILITY	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	

**The following conditions apply to: EU-PAINTLINE**

**DESCRIPTION:** A coating line consisting of a spray booth (booth #10) with associated HVLP applicators, a flash-off booth, and an electric infra-red oven. Also, one coating line consisting of a spray booth (booth #6) with associated HVLP applicators, a flash-off booth, and an electric infra-red oven. Both of these coating booth systems are used for the application of paint to various substrates including wood furniture, metal parts, and plastic parts.

**Flexible Group ID:** FG-FINISHING

**POLLUTION CONTROL EQUIPMENT:** Dry filters in each spray booth

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOCs	2000 lb/month	Calendar month	EU-PAINTLINE used for metal and plastic coatings.	SC VI.3	R 336.1702(d)
2. VOCs	10.0 tpy	12-month rolling time period as determined at the end of each calendar month	EU-PAINTLINE used for metal and plastic coatings.	SC VI.3	R 336.1702(d)

<sup>a</sup> The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. **(R 336.1602(4))**

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall capture all waste materials (i.e. topcoat, clearcoat, lacquer, etc.) and shall 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))**
2. 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)**
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 336.1224, R 336.1225, R 336.1702(a))**

#### **IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate the spray booth(s) associated with EU-PAINTLINE 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 EU-PAINTLINE 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 material (i.e. topcoat, lacquer, etc.), 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 336.1225, 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 336.1225, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (i.e. topcoat, lacquer, etc.), 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 monthly basis for EU-PAINTLINE:
  - a) Gallons (with water) of each material (i.e. topcoat, lacquer, thinner, purge, etc.) used.
  - b) VOC content (minus water and with water) of each material (i.e. topcoat, lacquer, thinner, etc.) as applied.
  - c) VOC mass emission calculations determining the monthly emission rate in pounds 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.
  - e) Hours of operation.

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 336.1702(d))**

4. On the 15<sup>th</sup> day of each calendar month, the permittee shall determine if the total VOC emissions from EU-PAINTLINE are greater than 1800 pounds, but less than 2000 pounds for the previous calendar month. If the total VOC emissions from EU-PAINTLINE are equal to or greater than 1800 pounds for a calendar month, then the permittee shall begin to keep the following information:
  - a) Gallons of each material (i.e. topcoat, lacquer, thinner, purge, etc.) used for the coating of metal parts and plastic parts exclusively on EU-PAINTLINE.
  - b) VOC content (minus water and with water) of each material (i.e. topcoat, lacquer, thinner, purge, etc.) used for the coating of metal parts and plastic parts exclusively on EU-PAINTLINE.
  - c) VOC mass emission calculations determining the monthly emission rate in pounds per calendar month for the coating of metal parts and plastic parts combined on EU-PAINTLINE.

- 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 336.1702(d))**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/ Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-OFFLINE	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
2. SV-FLATLINE	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

N/A

**Footnotes:**

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

**The following conditions apply to: FG-FINISHING**

**DESCRIPTION:** Wood furniture, metal, and plastic coating operations consisting of spray booths, associated application equipment, flash off areas/booths, and cleanup and purge solvents. Metal parts and plastic parts coating is only performed on EU-PAINTLINE.

**Emission Units:** EU-PAINTLINE, EU-MAINLINE, EU-CTLINE, EU-GEOCELL

**POLLUTION CONTROL EQUIPMENT:** Dry filters in the spray booths.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	76.8 tpy	12-month rolling time period as determined at the end of each calendar month	All metal, plastic, and wood furniture coating operations within FG-FINISHING	SC VI.3	R 336.1225, R 336.1702(a)
2. Acetone	14.6 tpy	12-month rolling time period as determined at the end of each calendar month	FG-FINISHING	SC VI.4	R 336.1224, R 336.1225
3. Formaldehyde (CAS 50-0-0)	0.19 pph	Test Protocol*	FG-FINISHING	GC 13	R 336.1225
4. Xylene (CAS 1330-20-7)	43.2 pounds per day	Calendar Day	FG-FINISHING	SC VI.5	R 336.1225

\*Test Protocol shall specify averaging time.

**II. MATERIAL LIMITS**

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

1. The VOC content of any sealer used in FG-FINISHING shall not exceed 3.5 pounds per pound of solid, as applied. **(R 336.1702(a))**
2. The VOC content of any topcoat used in FG-FINISHING shall not exceed 3.5 pounds per pound of solid, as applied. **(R 336.1702(a))**
3. The VOC content of any primer used in FG-FINISHING shall not exceed 1.0 pound per pound of solid, as applied. **(R 336.1702(a))**

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall capture all waste materials (i.e. topcoat, clearcoat, lacquer, varnish, cleanup, purge solvents, etc.) and shall store them in closed containers. The permittee shall dispose of all waste materials (i.e. topcoat, clearcoat, lacquer, varnish, cleanup, purge solvents, etc.) in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
2. 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)**

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 336.1224, R 336.1225, R 336.1702(a))**

#### **IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate any spray booth associated with FG-FINISHING unless its respective exhaust filter(s) is/are installed, maintained and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1331, R 336.1910)**
2. The permittee shall equip and maintain the spray booths associated with FG-FINISHING with HVLP applicators or comparable technology with equivalent transfer efficiency, except when applying lacquer. 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 material (i.e. coating, reducer, etc.), 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 336.1225, R 336.1702(a), 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 336.1225, R 336.1299, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (i.e. stain, sealer, lacquer, varnish, topcoat, reducer, cleanup solvent, etc.), 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(a))**
3. The permittee shall keep the following information on a monthly basis for FG-FINISHING:
  - a) Identity of each material used (i.e. coating identification/type, reducer, cleanup solvent, etc.)
  - b) Gallons (with water) of each material used.
  - c) Gallons of each cleanup and/or purge solvent reclaimed, as applicable.
  - d) VOC content (with water) of each material used.
  - e) VOC content of each sealer and topcoat, separately, in pounds of VOC per pound of solids, as applied.
  - f) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - g) 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 336.1225, R 336.1702(a))**

4. The permittee shall keep the following information on a monthly basis for FG-FINISHING:
- Gallons (with water) of each acetone containing material used.
  - Where applicable, gallons (with water) of each acetone containing material reclaimed.
  - The acetone content (with water), in pounds per gallon, of each material used.
  - Acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
  - 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 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 336.1225)**

- 5) The permittee shall keep the following information on a daily basis for FG-FINISHING:
- Gallons (with water) of each xylene containing material used.
  - Where applicable, gallons (with water) of each xylene containing material reclaimed.
  - The xylene content (with water), in pounds per gallon, of each material used.
  - Xylene mass emission calculations determining the daily emission rate in pounds per calendar day.

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 336.1225)**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

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. SV-OFFLINE	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
2. SV-FLATLINE	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
3. SV-STAIN	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
4. SV-WASHCOAT	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
5. SV-SEAL	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
6. SV-SHADE	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/ Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
7. SV-TOPCOAT	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
8. SV-CTSTAIN	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
9. SV-CTSEAL	36	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
10. SV-TUBE	32	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
11. SV-LAB	18	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
12. SV-TOPCOATFLASH	10	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
13. SV-FLATLINEOVEN	12	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
14. SV-FILLOVEN (2 stacks)	10 (each)	36 (each)	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
15. SV-SEALOVEN	10	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
16. SV-TOPCOATOVEN	10	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
17. SV-OFFLINEOVEN	10	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
18. SV-CTSEALOVEN	10	36	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**The following conditions apply Source-Wide to: FGFACILITY**

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Testing / Monitoring Method</b>	<b>Underlying Applicable Requirements</b>
1. Individual HAP	Less than 9.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205(3)
2. Aggregate HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205(3)

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**IV. DESIGN/EQUIPMENT PARAMETERS**

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 HAP content of any material (coating, reducer, cleanup solvent, etc.) 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. **(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))**

2. The permittee shall keep the following information on a monthly 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))**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA