NEW SOURCE REVIEW PERMIT TO INSTALL

	Common Acronyms	Pollutant/Measurement Abbreviations		
AQD	Air Quality Division	BTU	British Thermal Unit	
ANSI	American National Standards Institute	°C	Degrees Celsius	
BACT	Best Available Control Technology	СО	Carbon Monoxide	
CAA	Clean Air Act	dscf	Dry standard cubic foot	
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter	
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit	
COM	Continuous Opacity Monitoring	gr	Grains	
EPA	Environmental Protection Agency	Hg	Mercury	
EU	Emission Unit	hr	Hour	
FG	Flexible Group	H_2S	Hydrogen Sulfide	
GACS	Gallon of Applied Coating Solids	HP	Horsepower	
GC	General Condition	lb	Pound	
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	NOx	Oxides of Nitrogen	
MAP	Malfunction Abatement Plan	PM	Particulate Matter	
MDEQ	Michigan Department of Environmental Quality	PM-10	Particulate Matter less than 10 microns diameter	
MIOSHA	Michigan Occupational Safety & Health Administration	pph	Pound per hour	
MSDS	Material Safety Data Sheet	ppm	Parts per million	
NESHAP	National Emission Standard for Hazardous Air Pollutants	ppmv	Parts per million by volume	
NSPS	New Source Performance Standards	ppmw	Parts per million by weight	
NSR	New Source Review	psia	Pounds per square inch absolute	
PS	Performance Specification	psig	Pounds per square inch gauge	
PSD	Prevention of Significant Deterioration	scf	Standard cubic feet	
PTE	Permanent Total Enclosure	sec	Seconds	
PTI	Permit to Install	SO ₂	Sulfur Dioxide	
RACT	Reasonable Available Control Technology	THC	Total Hydrocarbons	
SC	Special Condition	tpy	Tons per year	
SCR	Selective Catalytic Reduction	μg	Microgram	
SRN	State Registration Number	VOC	Volatile Organic Compounds	
TAC	Toxic Air Contaminant	yr	Year	
VE	Visible Emissions			

Common Abbreviations / Acronyms Used in this Permit to Install

* 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, altered, 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. **[R336.1201(1)]**
- 2. If the installation, reconstruction, relocation, or alteration 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 person to whom this permit was issued, or the designated authorized agent, shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, PO Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or alteration of the equipment allowed by this Permit to Install. **[R336.1201(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 R336.1210, 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. **[R336.1201(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. [R336.1201(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 R336.1219 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 R336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **[R336.1219]**
- 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. **[R336.1901]**
- 7. The owner or operator of a source, process, or process equipment shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant in excess of standards for more than one hour, or of any air contaminant in excess of standards for more than two hours, as required in this rule, to the District Supervisor, Air Quality Division. The notice shall be provided no 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 District Supervisor within ten days, with the information required in this rule. [**R336.1912**]
- 8. Approval of this permit does not exempt the person to whom this permit was issued from complying with any future applicable requirements which may be promulgated under Part 55 of Act 451, PA 1994 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 Act 451, PA 1994, 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 R336.1301, a person 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 R336.1303. **[R336.1301]**
 - 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.
- 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 R336.1370(2). [R336.1370]
- 13. Except as allowed by Rule 285 (a), (b), and (c), permittee shall not substitute any fuels, coatings, nor raw materials for those described in the application and allowed by this permit, nor make changes to the process or process equipment described in the application, without prior notification to and approval by the Air Quality Division. **[R336.1201(1)]**
- 14. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R336.2001 and R336.2003, under any of the conditions listed in R336.2001. **[R336.2001]**

SPECIAL CONDITIONS

Emission Unit Identification

Emission Unit ID	Emission Unit Description	Stack Identification		
EU00002	Wood Furniture Stripping Machine; uses stripping	SV00002		
	solvent blend (RAP Mist Stripper 99) containing:			
	toluene, methanol, and methyl ethyl ketone.			
EU00003	Wood Furniture Soak Tank; uses stripping solvent	SV00002		
	blend (RAP Liquid Thin w/wax) containing:			
	methylene chloride, methanol, and toluene.			
Changes to the equipment described in this table are subject to the requirements of R336.1201, except as				
allowed by R336.1278 to R336.1290.				

Flexible Group Identification

Flexible Group ID	Emission Units Included in Flexible Group	Stack Identification
FGSTRIP	EU00002, EU00003	SV00002

The following conditions apply to: FGSTRIP

Emission Limits	Em	issio	n L	im	its
------------------------	----	-------	-----	----	-----

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirement
1.1a	VOC	FGSTRIP	12.4 tpy	12-month rolling time period as	SC 1.2, 1.3,	R336.1702(a)
				determined at the end of each	1.4, 1.5, 1.6	R336.1901
				calendar month		

Material Usage Limits

- 1.2 The permittee shall not use more than 3,575 gallons of stripping solvent in FGSTRIP per 12-month rolling time period as determined at the end of each calendar month. **[R336.1702(a), R336.1901]**
- 1.3 The permittee shall limit the component usage rates of FGSTRIP as listed below :
 - a) 18,000 pounds of methanol per 12-month rolling time period as determined at the end of each calendar month,
 - b) 6,781 pounds of methyl ethyl ketone per 12-month rolling time period as determined at the end of each calendar month,
 - c) 4,140 pounds of methylene chloride per 12-month rolling time period as determined at the end of each calendar month, and
 - d) 18,000 pounds of toluene per 12-month rolling time period as determined at the end of each calendar month. **[R336.1702(a), R336.1901]**

Recordkeeping/Reporting/Notification

1.4 The permittee shall calculate the VOC emission rate from FGSTRIP monthly, for the preceding 12-month rolling time period, using a method acceptable to the AQD District Supervisor. All records shall be kept

on file for a period of at least five years and made available to the Department upon request. **[R336.1702(a), R336.1901]**

- 1.5 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of stripping solvent usage for FGSTRIP. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **[R336.1702(a), R336.1901]**
- 1.6 The permittee shall keep, in a satisfactory manner, separate monthly and 12-month rolling time period records of methanol, methyl ethyl ketone, methylene chloride, and toluene usage for FGSTRIP. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **[R336.1702(a), R336.1901]**

Stack/Vent Restrictions

	Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement
1.7a	SV00002	20	20	R336.1901
The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air.				