MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

July 30, 2018

PERMIT TO INSTALL 915-85B

ISSUED TO
PRS Manufacturing, Inc.

LOCATED AT 3745 Dykstra Drive Walker, Michigan

IN THE COUNTY OF Kent

STATE REGISTRATION NUMBER N1229

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).

July 18, 2018	I REQUIRED BY RULE 203:
July 30, 2018	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms			Pollutant / Measurement Abbreviations		
AQD	Air Quality Division	acfm			
BACT	Best Available Control Technology	BTU	British Thermal Unit		
CAA	Clean Air Act	°C	Degrees Celsius		
CAM	Compliance Assurance Monitoring	СО	Carbon Monoxide		
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent		
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot		
СОМ	Continuous Opacity Monitoring	dscm	Dry standard cubic meter		
Department/	Michigan Department of Environmental	°F	Degrees Fahrenheit		
department	Quality	gr	Grains		
EU	Emission Unit	HAP	Hazardous Air Pollutant		
FG	Flexible Group	Hg	Mercury		
GACS	Gallons of Applied Coating Solids	hr	Hour		
GC	General Condition	HP	Horsepower		
GHGs	Greenhouse Gases	H ₂ S	Hydrogen Sulfide		
HVLP	High Volume Low Pressure*	kW	Kilowatt		
ID	Identification	lb	Pound		
IRSL	Initial Risk Screening Level	m	Meter		
ITSL	Initial Threshold Screening Level	mg	Milligram		
LAER	Lowest Achievable Emission Rate	mm	Millimeter		
MACT	Maximum Achievable Control Technology	MM	Million		
MAERS	Michigan Air Emissions Reporting System	MW	Megawatts		
MAP	Malfunction Abatement Plan	NMOC	Non-methane Organic Compounds		
MDEQ	Michigan Department of Environmental Quality	NO _x	Oxides of Nitrogen		
MSDS	Material Safety Data Sheet	ng PM	Nanogram Particulate Matter		
NA	Not Applicable		Particulate Matter equal to or less than 10		
NAAQS	National Ambient Air Quality Standards	PM10	microns in diameter		
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter		
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	Reasonable Available Control Technology	scf	Standard cubic feet		
ROP	Renewable Operating Permit	sec	Seconds		
SC	Special Condition	SO ₂	Sulfur Dioxide		
SCR	Selective Catalytic Reduction	TAC	Toxic Air Contaminant		
SNCR	Selective Non-Catalytic Reduction	Temp	Temperature		
SRN	State Registration Number	THC	Total Hydrocarbons		
TEQ	Toxicity Equivalence Quotient	tpy	Tons per year		
USEPA/EPA	United States Environmental Protection Agency	μg	Microgram		
VE	Visible Emissions	μm VOC	Micrometer or Micron Volatile Organic Compounds		
	licators, the pressure measured at the gun air ca	yr 	Year		

^{*}For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 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)

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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 (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
	A batch type natural gas-fired burn-off oven for removal of plastisol coatings from metal parts. The oven is equipped with a 1,200,000 BTU/hr afterburner control system. (Rapid Engineering No. 830588)	12-1-1984 / 6-30-2014	NA

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.

The following conditions apply to: EU-STRIPOVEN

<u>DESCRIPTION</u>: A batch type natural gas-fired burn-off oven for removal of plastisol coatings from metal parts. The oven is equipped with a 1,200,000 BTU/hr afterburner control system. (Rapid Engineering No. 830588)

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Secondary chamber/afterburner

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

- 1. The permittee shall not process more than 150 batches of metal parts in EU-STRIPOVEN per 12-month rolling time period, as determined at the end of each calendar month. (R 336.1205(1)(a), R 336.1224)
- 2. The permittee shall burn only natural gas in EU-STRIPOVEN. (R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))
- 3. The permittee shall not process any material in EU-STRIPOVEN, other than cured coatings, oil or grease on racks and/or hangers.¹ (R 336.1224, R 336.1225)

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EU-STRIPOVEN unless the secondary chamber or afterburner is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the secondary chamber or afterburner includes maintaining a minimum temperature of 1400° F and a minimum retention time of 0.5 seconds. (R 336.1224, R 336.1225, R 336.1910)

2. The permittee shall not operate EU-STRIPOVEN unless an automatic temperature control system for the primary chamber and secondary chamber or afterburner is installed, maintained and operated in a satisfactory manner. (R 336.1224, R 336.1225, R 336.1910)

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 records 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, R 336.1225, R 336.1910)
- 2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to continuously monitor the temperature in the burn-off oven secondary chamber/afterburner and record the temperature at least three (3) times per batch. The permittee shall keep the records on file at the facility and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1910)
- 3. The permittee shall keep, in a satisfactory manner, records of the date, duration and description of any malfunction of the control equipment, each thermocouple calibration, and any maintenance performed for EU-STRIPOVEN. The permittee shall keep the records on file at the facility and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1910)
- 4. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (coating, oil, coolant, metal, etc.) processed in EU-STRIPOVEN, 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 the records on file at the facility, in a format acceptable to the AQD District Supervisor, and make them available to the Department upon request.¹ (R 336.1224, R 336.1225)
- 5. The permittee shall keep, in a satisfactory manner, records of the number of batches processed in EU-STRIPOVEN, on a monthly and 12-month rolling time period as determined at the end of the calendar month. The permittee shall keep the records on file at the facility and make them available to the Department upon request. (R 336.1205(1)(a), R 336.1224)

VII. REPORTING

NA

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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-STRIPOVEN	12	24	R 336.1225, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENTS

NA

Footnotes:

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