MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

January 6, 2004

NEW SOURCE REVIEW PERMIT TO INSTALL

No. 218-03

ISSUED TO

Peterson Spring, Madison Heights Facility

LOCATED AT

32601 Industrial Drive Madison Heights, Michigan 48071

IN THE COUNTY OF

Oakland

STATE REGISTRATION NUMBER

N7318

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 Part 5505(1) of Article II, Chapter I, Part 55 (Air Pollution Control) of P.A. 451 of 1994. 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 12/17/2003	REQ UIRED BY RULE 203:
DATE PERMIT TO INSTALL APPROVED: 1/6/2004	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

	Common Abbreviat		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	pph	Pound per hour
	Administration	PP.	1 ound per nour
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
ROP	Renewable Operating Permit	tpy	Tons per year
SC	Special Condition Number	μg	Microgram
SCR	Selective Catalytic Reduction	VOC	Volatile Organic Compounds
SRN	State Registration Number	yr	Year
TAC	Toxic Air Contaminant		
VE	Visible Emissions		

^{*} 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. [R336.1201(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, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification 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 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 condition 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). [R336.1912]
- 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 R336.1301, 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 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.
- 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 R336.1370(2). [R336.1370]
- 13. 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
EU-Tensionoven1	Electrically heated tension release ovens used to relax	SV01 & SV02
	metal springs.	
EU-Tensionoven2	Electrically heated tension release ovens used to relax	SV01 & SV02
	metal springs.	ariot o arioa
EU-Tensionoven3	Electrically heated tension release ovens used to relax	SV01 & SV02
EU-Tensionoven4	metal springs. Electrically heated tension release ovens used to relax	SV01 & SV02
EU-Tensionoven4	· ·	SV01 & SV02
EU-Tensionoven5	metal springs. Electrically heated tension release ovens used to relax	SV01 & SV02
EU-Tensionovens	metal springs.	3 7 0 1 & 3 7 0 2
EU-Tensionoven6	Electrically heated tension release ovens used to relax	SV01 & SV02
Le rensionoveno	metal springs.	5 7 01 & 5 7 02
EU-Tensionoven7	Electrically heated tension release ovens used to relax	SV01 & SV02
26 1011310110 (011)	metal springs.	2 . 01 66 2 . 02
EU-Tensionoven8	Electrically heated tension release ovens used to relax	SV01 & SV02
	metal springs.	
EU-Tensionoven9	Electrically heated tension release ovens used to relax	SV01 & SV02
	metal springs.	
EU-Tensionoven10	Electrically heated tension release ovens used to relax	SV03
	metal springs.	
EU-Tensionoven11	Electrically heated tension release ovens used to relax	SV03
	metal springs.	
EU-Tensionoven12	Electrically heated tension release ovens used to relax	SV03
DIL TO 1 10	metal springs.	GY 102
EU-Tensionoven13	Electrically heated tension release ovens used to relax	SV03
EU-Tensionoven14	metal springs. Electrically heated tension release ovens used to relax	SV03
EU-Telisiollovell14	metal springs.	3 V U 3
EU-Tensionoven15	Electrically heated tension release ovens used to relax	SV03
LO-Telisiollovell13	metal springs.	3 7 03
EU-Tensionoven16	Electrically heated tension release ovens used to relax	SV03
26 141131311314	metal springs.	2 / 00
EU-Tensionoven17	Electrically heated tension release ovens used to relax	SV03
	metal springs.	
EU-Tensionoven18	Electrically heated tension release ovens used to relax	SV03
	metal springs.	
EU-Tensionoven19	Electrically heated tension release ovens used to relax	SV03
	metal springs.	
EU-Tensionoven20	Electrically heated tension release ovens used to relax	SV03
	metal springs.	QT 10.2
EU-Tensionoven21	Electrically heated tension release ovens used to relax	SV03
EIL TO 1 22	metal springs.	ON 102
EU-Tensionoven22	Electrically heated tension release ovens used to relax	SV03
EU-Tensionoven23	metal springs.	CV/02
EU-Tensionoven23	Electrically heated tension release ovens used to relax	SV03
	metal springs.	

Emission Unit ID	Emission Unit Description	Stack Identification		
EU-Tensionoven24	Electrically heated tension release ovens used to relax	SV03		
	metal springs.			
EU-Tensionoven25	Electrically heated tension release ovens used to relax	SV03		
	metal springs.			
EU-Tensionoven26	Electrically heated tension release ovens used to relax	SV03		
	metal springs.			
EU-Tensionoven27	Electrically heated tension release ovens used to relax	SV03		
	metal springs.			
EU-Tensionoven28	Electrically heated tension release ovens used to relax	SV04		
	metal springs.			
EU-Tensionoven29	Electrically heated tension release ovens used to relax	SV05		
	metal springs.			
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
FG-Tensionovens	EU-Tensionoven1, EU-Tensionoven2,	SV001
	EU-Tensionoven3, EU-Tensionoven4,	SV002
	EU-Tensionoven5, EU-Tensionoven6,	SV003
	EU-Tensionoven7, EU-Tensionoven8,	SV004
	EU-Tensionoven9, EU-Tensionoven10,	SV005
	EU-Tensionoven11, EU- Tensionoven12,	
	EU-Tensionoven13, EU-Tensionoven14,	
	EU-Tensionoven15, EU-Tensionoven16,	
	EU-Tensionoven17, EU-Tensionoven18,	
	EU-Tensionoven19, EU-Tensionoven20,	
	EU-Tensionoven21, EU-Tensionoven22	
	EU-Tensionoven23, EU-Tensionoven24	
	EU-Tensionoven25, EU-Tensionoven26	
	EU-Tensionoven27, EU-Tensionoven28	
	EU-Tensionoven29	

SPECIAL CONDITIONS

The following conditions apply to: FG-Tensionovens

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Testing/ Monitoring Method	Applicable Requirements
1.1a	VOCs	FG- Tensionovens	0.5 tpy	12-month rolling time period as determined at the end of each calendar month.	SC 1.2 & SC 1.4	R336.1225 R336.1702(a)
1.1b	VOCs	FG- Tensionovens	0.001 Lb Per Lb of oil coating wire processed.	According to method.	General Condition 13	R336.1225, R336.1702(a)
1.1c	PM10	FG- Tensionovens	0.5 tpy	12-month rolling time period as determined at the end of each calendar month.	SC 1.2 & SC 1.4	R336.331(c)
1.1d	PM10	FG- Tensionovens	0.001 Lb Per Lb of oil coating wire processed.	According to method.	General Condition 13	R336.331(c)

Process/Operational Limits

1.2 The permittee shall not exceed a maximum processing rate of 1,000,000 pounds of oil coated wire per 12-month rolling time period. [R336.1225, R336.1702(a)]

Recordkeeping/Reporting/Notification

- 1.3 The permittee shall maintain a current listing from the manufacturer of the chemical composition of each wire coating oil, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1224, R336.1225, R336.1702]
- 1.4 The permittee shall keep the following information on a monthly basis for FG-Tensionovens:
 - a) The pounds of oil coated wire processed through FG-Tensionovens.
 - b) The pounds of total wire processed through FG-Tensionovens.
 - c) VOC and PM10 mass emission calculations determining the monthly emission rate in tons per calendar month. These calculations shall be done using the production records multiplied by the emission limit in Special Condition No. 1.1b and 1.1d respectively.
 - d) VOC and PM10 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 records shall be kept in a format 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), 40 CFR 52.21]

Stack/Vent Restrictions

	Stack & Vent ID	Maximum Diameter	Minimum Height Above	Applicable
	Stack & Vent ID	(inches)	Ground Level (feet)	Requirement
1.5a	SV001	10.0	26.0	R336.1225, R336.1901
1.5b	SV002	14.0	26.0	R336.1225, R336.1901
1.5c	SV003	14.0	26.0	R336.1225, R336.1901
1.5d	SV004	14.0	26.0	R336.1225, R336.1901
1.5e	SV005	14.0	26.0	R336.1225, R336.1901

The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air. Additional text, descriptions, stack/vent conditions, etc. as needed.