MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

November 19, 2007

PERMIT TO INSTALL

No. 75-05A

ISSUED TO

Cygnet Automated Cleaning, L.L.C.

LOCATED AT

45889 Mast Street Plymouth, Michigan 48170

IN THE COUNTY OF

Wayne

STATE REGISTRATION NUMBER

N7422

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:			
11/14/2007			
DATE PERMIT TO INSTALL APPROVED:	SIGNATURE:		
11/19/2007			
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	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	
COM	Continuous Opacity Monitoring	°F	Degrees Fahrenheit	
EPA	Environmental Protection Agency		Grains	
EU	Emission Unit	gr Hg	Mercury	
FG	Flexible Group	hr	Hour	
GACS	Gallon of Applied Coating Solids	H ₂ S		
GC	General Condition		Hydrogen Sulfide	
HAP	Hazardous Air Pollutant	hp lb	Horsepower Pound	
			Meter	
HVLP ID	High Volume Low Pressure * Identification	m		
LAER	Lowest Achievable Emission Rate	mg	Milligram Millimeter	
		mm		
MACT	Maximum Achievable Control Technology	MM	Million	
MAERS	Michigan Air Emissions Reporting System	MW	Megawatts	
MAP	Malfunction Abatement Plan Michigan Department of Environmental	ng	Nanogram	
MDEQ	Quality	NO _x	Oxides of Nitrogen	
MSDS	Material Safety Data Sheet	PM	Particulate Matter	
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM-10	Particulate Matter less than 10 microns 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	Reasonably Available Control Technology	scf	Standard cubic feet	
ROP	Renewable Operating Permit	sec	Seconds	
SC	Special Condition	SO ₂	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, 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 AQD District Supervisor shall be notified, in writing, of a change in ownership or operational control of the stationary source or emission unit(s) authorized by this Permit to Install pursuant to R 336.1219. The notification shall include all of the information required by R 336.1219(1)(a) and (b). In addition, a new owner or operator must submit a written statement pursuant to R 336.1219(1)(c), agreeing to and accepting the terms and conditions of this Permit to Install, and shall notify the AQD District Supervisor of any change in the contact person for this Permit to Install. (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 nor does it affect any liability for past violations under the Natural Resources and Environmental Protection Act, 1994 PA 451.
- 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 Identification

Emission Unit ID	Emission Unit Description	Stack Identification		
EUTOTEEXTCLEAN	Exterior cleaning of totes.	SV-STACK		
EUPAINTTRANSFER	Transfer of paint residue from incoming containers to a waste accumulation tote using a	SV-STACK		
EUTESTBOOTH	vacuum system. Final rinse of totes inside a spray/test booth.	SV-STACK		
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 Identification

Flexible Group ID	Emission Units Included in Flexible Group	Stack Identification
FGTOTECLEANING	EUTOTEEXTCLEAN, EUPAINTTRANSFER,	SV-STACK
	EUTESTBOOTH	

The following conditions apply to: FG-TOTECLEANING

Description: A paint tote cleaning operation where used totes containing paint residue are received at the facility, cleaned, inspected, tested and returned to the customer for reuse.

Emission Unit(s) ID: EUTOTEEXTCLEAN, EUPAINTTRANSFER, EUTESTBOOTH

Pollution Control Equipment: Activated carbon canister system for EUPAINTTRANSFER only.

Emission Limits

	Pollutant	Limit	Time Period	Equipment	Testing/ Monitoring Method	Applicable Requirements
1.1a	VOCs	25.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGTOTECLEANING	SC 1.9	R 336.1702(a)
1.1b	PM	0.1 lbs / 1000 lbs exhaust gases*	Test Protocol	Exhaust system portion of FGTOTECLEANING	GC 13	R 336.1331
	* Calculated on a dry gas basis.					

Process / Operational Limits

- 1.2 The permittee shall capture all waste materials (i.e. paint, solvent, cleaning solutions, etc.) and shall store them in closed containers. The permittee shall dispose of all waste materials (i.e. paint, solvent, cleaning solutions, etc.) in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1224, R 336.1702(a))
- 1.3 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)

1.4 The permittee shall not process more than 225 totes per calendar day. (R 336.1224, R 336.1225, R 336.1702(a))

Equipment

- 1.5 The permittee shall not operate EUPAINTTRANSFER portion of FGTOTECLEANING unless the carbon adsorber system and all respective exhaust filters are installed, maintained and operated in a satisfactory manner. (R 336.1224, R 336.1301, R 336.1331, R 336.1901, R 336.1910)
- 1.6 The permittee shall not operate the carbon adsorber system associated with EUPAINTTRANSFER portion of FGTOTECLEANING unless the breakthrough indicator is installed, maintained and operated in a satisfactory manner. (R 336.1224, R 336.1901, R 336.1910)

Recordkeeping /Reporting /Notification

- 1.7 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 recordkeeping, reporting or notification special condition. (R 336.1224, R 336.1225, R 336.1702(a), R 336.1901)
- 1.8 The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material used for cleaning the totes, 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 for a period of at least five years and make them available to the Department upon request. (R 336.1224, R 336.1225, R 336.1702(a), R 336.1901)
- 1.9 The permittee shall keep the following information on a monthly basis for FGTOTECLEANING:
 - a) Gallons of each material (i.e. cleaning solvent and exterior tote cleaner) used.
 - b) VOC content of each (i.e. cleaning solvent and exterior tote cleaner) as applied.
 - c) Gallons of each material removed from the incoming totes and sent off site as hazardous waste.
 - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) 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 for a period of at least five years and make them available to the Department upon request. (R 336.1225, R 336.1702(a), R 336.1901)

1.10 The permittee shall keep, in a satisfactory manner, daily records of the number of totes processed in FGTOTECLEANING, as required by SC 1.4. The permittee shall maintain all records on file for a period of at least five years and make them available to the Department upon request. (R 336.1225, R 336.1702(a))

	Stack & Vent ID	Maximum Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement
1.11	SV-STACK	33.0	44.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
	The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air.			