



These limits are based on the maximum production rate and the plastic manufacturing industry emission factors. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

This permit is issued based on the use of non-VOM mold release agent in the polyurethane ware molding operations.

4. Usage of raw materials and VOM emissions of the two plastic parts painting lines shall not exceed the following limits:

<u>Material</u>	<u>Material Usage</u>		<u>VOM content</u> (Lb/Gal)	<u>VOM Emissions</u>	
	(Gal/Mo)	(Gal/Yr)		(Ton/Mo)	(Ton/Yr)
Paint	2,000	15,000	1.5	1.5	11.3
Clean-up Solvent	200	1,500	6.7	0.7	5.0

These limits are based on the maximum production capacity and maximum VOM content of the raw materials. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

5. Operation and emissions of the two natural gas fired engine/generators (combined) shall not exceed the following limits:

Natural Gas Usage: 6.0 mmscf/month, 57.2 mmscf/year

<u>Pollutant</u>	<u>Emission Factor</u> (Lb/mmscf)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Nitrogen Oxides (NO <sub>x</sub> )	568	1.7	16.2
Carbon Monoxide (CO)	401	1.2	11.5
Volatile Organic Material (VOM)	140	0.4	4.0

These limits are based on the maximum production rate and engine manufacturer's emission factors. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

6. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.

7. The Permittee shall maintain monthly records of the following items:
  - a. Names and amounts of raw material used at the facility (tons/mo, tons/yr);
  - b. VOM and HAP content of raw materials used (wt %);
  - c. Natural gas usage by engine/generators (mmscf/mo, mmscf/yr);
  - d. VOM and HAP emission calculations (tons/mo, tons/yr).
8. All records and logs required by this permit shall be retained at a easily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA request for records during the course of a source inspection.
9. If there is an exceedance of the requirements of this permit as determined by the record required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the record keeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
10. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: names and amounts of raw materials used (tons/year) and their VOM and HAP content (wt %).
11. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, IL 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control - Regional Office  
9511 West Harrison  
Des Plaines, Illinois 60016

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It should be noted that the space heaters are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(d).

If you have any questions on this permit, please call Valeriy Brodsky at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:VJB:psj

cc: Illinois EPA, FOS Region 1  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission from the Plastic Product Manufacturing Plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from both plants. This is processing 21,340 tons of plastic resins, usage 15,000 gallons of paint and 1,500 gallons of clean-up solvents, burning 57.2 mmscf of natural gas in engine/generators per year. The resulting maximum emissions are well below the levels, e.g., 25 tons per year of VOM, 10 tons per year for a single HAP, and 25 tons per year for totaled HAP at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that material is handled, and control measures are more effective than required in this permit.

1. Operation and emissions from the plastic injection, silicon mold making and polyurethane ware molding operations shall not exceed the following limits:

<u>Material</u>	<u>Usage</u>		<u>Emission Factor</u> (Lb/Tons)	<u>VOM Emissions</u>	
	(Tons/Mo)	(Tons/Yr)		(Lb/Mo)	(Ton/Yr)
<u>Polypropylene:</u>					
c. Copolymer	1,500	12,500	0.16	240	1.0
d. Homopolymer	1,000	7,500	0.4	400	1.5
Polystyrene	75	500	0.11	8	0.03
Polyethylene	38	250	0.07	3	0.01
Silicon/Catalyst	8	60	12.0	96	0.4
Polyol/Isocyanate	61	530	3.2	195	0.8
Mold Release	0.1	0.6	2,000	200	0.6
				Total 4.3	

2. Usage of raw materials and VOM emissions from two plastic parts painting lines shall not exceed the following limits:

<u>Material</u>	<u>Material Usage</u>		<u>VOM content</u> (Lb/Gal)	<u>VOM Emissions</u>	
	(Gal/Mo)	(Gal/Yr)		(Ton/Mo)	(Ton/Yr)
Paint	2,000	15,000	1.5	1.5	11.3
Clean-up Solvent	200	1,500	6.7	0.7	5.0

3. Operation and emissions of the two natural gas fired engines/generators (combined) shall not exceed the following limits:

Natural Gas Usage: 6.0 mmscf/month, 57.2 mmscf/year

<u>Pollutant</u>	<u>Emission Factor</u> (Lb/mmscf)	<u>Emissions</u>	
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4. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.

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