



State of Ohio Environmental Protection Agency

**RE: PERMIT TO INSTALL MODIFICATION CERTIFIED MAIL
STARK COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 15-01395

DATE: 5/24/00

The Hoover Company Plant 1
Monica Satrape
101 East Maple Street
North Canton, OH 44720

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

Canton LAA



**Permit To Install
Terms and Conditions**

**Issue Date: 5/24/00
Effective Date: 5/24/00**

ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 15-01395

Application Number: 15-01395
APS Premise Number: 1576170258
Permit Fee: **\$0**
Name of Facility: The Hoover Company Plant 1
Person to Contact: Monica Satrape
Address: 101 East Maple Street
North Canton, OH 44720

Location of proposed air contaminant source(s) [emissions unit(s)]:

**101 East Maple Street
North Canton, Ohio**

Description of proposed emissions unit(s):

Modification of PTI #15-1395 issued 12/15/1999 to accurately reflect the equipment descriptions for equipment already installed.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

The Hoover Company Plant 1
PTI Application: 15-01395
Issued: 5/24/00

Facility ID: 1576170258

Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after

commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC*	5.296
Styrene	3.913

*Includes styrene

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

OAC rule 3745-21-07(G)(2)

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

85-ton, thermoplastic molding machine; No. 12	18.6 pounds/hour, resin injection	OAC rule 3745-31-05
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OAC rule 3745-35-07(B)

Applicable Emissions
Limitations/Control Measures

0.016 pound OC/hour
0.067 ton OC/year
0.012 pound styrene/hour
0.05 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044	No.2911501	P076	No.2935201	P085	No.2932102
P045	No.2912505	P077	No.2930902	P086	No.2932502
P046	No.2912605	P078	No.2931002	P087	No.2932802
P047	No.2913205	P080	No.2931402	P088	No.2932902
P048	No.2927501	P081	No.2931602	P089	No.2933002
P049	No.2920101	P082	No.2931502	P090	No.2933102
P050	No.2920201	P083	No.2931702	P091	No.2930302
P051	No.2923902	P084	No.2931902	P092	No.2931802
P052	No.2924101			P093	No.2934102
P054	No.2925402			P096	No.2914602
P055	No.2920502			P097	No.2917502
P056	No.2927302			P098	No.2919604
P057	No.2927702			P099	No.2911004
P058	No.2926002			P100	No.2912804
P059	No.2926102			P101	No.2912904
P060	No.2927902			P102	No.2913104
P061	No.2928502			P103	No.2918904
P062	No.2934801			P106	No.2914405
P063	No.2926501			P107	No.2914305
P064	No.2926401			P108	No.2912405
P065	No.2926601			P109	No.2911405
P066	No.2921101			P110	No.2915705
P067	No.2928201			P113	No.2924201
P068	No.2931201			P114	No.2924601
P069	No.2932301			P115	No.2925201
P070	No.2922601			P116	No.2925601
P071	No.2934201			P117	No.2925801
P072	No.2934301			P118	No.2926301
P073	No.2934401			P119	No.2921701
P074	No.2935001			P120	No.2925502
P075	No.2934901			P121	No.2927802

**The H
PTI A**

Issued: 5/24/00

Emissions Unit ID: **P155**

P122 No.2928802
P123 No.2922402
P124 No.2928602
P125 No.2921602
P126 No.2932701
P127 No.2933201
P128 No.2933301
P129 No.2934001

P160 No. 21
P161 No. 22
P162 No. 43
P163 No. 46
P164 No. 54
P165 No. 55
P166 No. 126

P130 No.2934501
P131 No.2930401
P132 No.2918802
P133 No.2911705
P134 No.2923802
P135 No.2918205
P136 No.2928901
P137 No.2929001
P138 No.2929101
P139 No.2929502
P140 No.2929402
P141 No.2929302
P142 No.2929202
P143 No.2923002
P144 No.2922602
P145 No.2923102
P146 No.2923202
P147 No.2929602
P148 No.2923602
P149 New
P150 New
P151 New
P152 New
P153 New
P154 New
P155 No. 12
P156 No. 47
P157 No. 64
P158 No. 125
P159 No. 13

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of

styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;

- c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and
- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.
 - b. Emission Limitation:
0.016 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.
 - c. Emission Limitation:
0.012 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.
 - d. Emission Limitation:
0.067 ton OC/hr and 0.05 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 106 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

$0.00087 \text{ lb OC/pound (styrene plastic)} \times 28,000,000 \text{ pounds/year} \times 1 \text{ ton}/2000 \text{ lbs}$
 $= 12.18 \text{ tons OC/yr}$

$0.00023 \text{ lb OC/pound (nonstyrene plastic)} \times 297,000,000 \text{ lbs/year} \times 1 \text{ ton}/2000 \text{ lbs}$
 $= 34.16 \text{ tons/year}$

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
300-ton, 55.5 pounds/hour, thermoplastic resin injection molding machine; No. 47	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

**The H
PTI A
Issued: 5/24/00**

Emissions Unit ID: **P156**

Applicable Emissions
Limitations/Control Measures

0.048 pound OC/hour
0.198 ton OC/year
0.036 pound styrene/hour
0.148 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

2.a This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
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1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

**The H
PTI A
Issued: 5/24/00**

Emissions Unit ID: **P156**

P054	No.2925402	P091	No.2930302	P133	No.2911705
P055	No.2920502	P092	No.2931802	P134	No.2923802
P056	No.2927302	P093	No.2934102	P135	No.2918205
P057	No.2927702	P096	No.2914602	P136	No.2928901
P058	No.2926002	P097	No.2917502	P137	No.2929001
P059	No.2926102	P098	No.2919604	P138	No.2929101
P060	No.2927902	P099	No.2911004	P139	No.2929502
P061	No.2928502	P100	No.2912804	P140	No.2929402
P062	No.2934801	P101	No.2912904	P141	No.2929302
P063	No.2926501	P102	No.2913104	P142	No.2929202
P064	No.2926401	P103	No.2918904	P143	No.2923002
P065	No.2926601	P106	No.2914405	P144	No.2922602
P066	No.2921101	P107	No.2914305	P145	No.2923102
P067	No.2928201	P108	No.2912405	P146	No.2923202
P068	No.2931201	P109	No.2911405	P147	No.2929602
P069	No.2932301	P110	No.2915705	P148	No.2923602
P070	No.2922601	P113	No.2924201	P149	New
P071	No.2934201	P114	No.2924601	P150	New
P072	No.2934301	P115	No.2925201	P151	New
P073	No.2934401	P116	No.2925601	P152	New
P074	No.2935001	P117	No.2925801	P153	New
P075	No.2934901	P118	No.2926301	P154	New
P076	No.2935201	P119	No.2921701	P155	No. 12
P077	No.2930902	P120	No.2925502	P156	No. 47
P078	No.2931002	P121	No.2927802	P157	No. 64
P080	No.2931402	P122	No.2928802	P158	No. 125
P081	No.2931602	P123	No.2922402	P159	No. 13
P082	No.2931502	P124	No.2928602	P160	No. 21
P083	No.2931702	P125	No.2921602	P161	No. 22
P084	No.2931902	P126	No.2932701	P162	No. 43
P085	No.2932102	P127	No.2933201	P163	No. 46
P086	No.2932502	P128	No.2933301	P164	No. 54
P087	No.2932802	P129	No.2934001	P165	No. 55
P088	No.2932902	P130	No.2934501	P166	No. 126
P089	No.2933002	P131	No.2930401		
P090	No.2933102	P132	No.2918802		

C. Monitoring and/or Record keeping Requirements

Emissions Unit ID: **P156**

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;

- c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and
- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.
 - b. Emission Limitation:
0.048 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.
 - c. Emission Limitation:
0.036 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.
 - d. Emission Limitation:
0.198 ton OC/hr and 0.148 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
 47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
 = 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
 = 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
420-ton, 151.1 pounds/hour, thermoplastic resin injection molding machine; No. 64	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

The H
PTI A
Issued: 5/24/00

Emissions Unit ID: **P157**

Applicable Emissions
Limitations/Control Measures

0.131 pound OC/hour
0.538 ton OC/year
0.098 pound styrene/hour
0.4 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

2.a This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

The Hoover Company Plant 1
PTI Application: 15-01305
Issued

Facility ID: 1576170258

Emissions Unit ID: **P157**

P054	No.2925402	P091	No.2930302	P133	No.2911705
P055	No.2920502	P092	No.2931802	P134	No.2923802
P056	No.2927302	P093	No.2934102	P135	No.2918205
P057	No.2927702	P096	No.2914602	P136	No.2928901
P058	No.2926002	P097	No.2917502	P137	No.2929001
P059	No.2926102	P098	No.2919604	P138	No.2929101
P060	No.2927902	P099	No.2911004	P139	No.2929502
P061	No.2928502	P100	No.2912804	P140	No.2929402
P062	No.2934801	P101	No.2912904	P141	No.2929302
P063	No.2926501	P102	No.2913104	P142	No.2929202
P064	No.2926401	P103	No.2918904	P143	No.2923002
P065	No.2926601	P106	No.2914405	P144	No.2922602
P066	No.2921101	P107	No.2914305	P145	No.2923102
P067	No.2928201	P108	No.2912405	P146	No.2923202
P068	No.2931201	P109	No.2911405	P147	No.2929602
P069	No.2932301	P110	No.2915705	P148	No.2923602
P070	No.2922601	P113	No.2924201	P149	New
P071	No.2934201	P114	No.2924601	P150	New
P072	No.2934301	P115	No.2925201	P151	New
P073	No.2934401	P116	No.2925601	P152	New
P074	No.2935001	P117	No.2925801	P153	New
P075	No.2934901	P118	No.2926301	P154	New
P076	No.2935201	P119	No.2921701	P155	No. 12
P077	No.2930902	P120	No.2925502	P156	No. 47
P078	No.2931002	P121	No.2927802	P157	No. 64
P080	No.2931402	P122	No.2928802	P158	No. 125
P081	No.2931602	P123	No.2922402	P159	No. 13
P082	No.2931502	P124	No.2928602	P160	No. 21
P083	No.2931702	P125	No.2921602	P161	No. 22
P084	No.2931902	P126	No.2932701	P162	No. 43
P085	No.2932102	P127	No.2933201	P163	No. 46
P086	No.2932502	P128	No.2933301	P164	No. 54
P087	No.2932802	P129	No.2934001	P165	No. 55
P088	No.2932902	P130	No.2934501	P166	No. 126
P089	No.2933002	P131	No.2930401		
P090	No.2933102	P132	No.2918802		

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting

plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):

- a. Emission Limitation:

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:

Record keeping as required in section II.C.1.

- b. Emission Limitation:

0.131 pound OC/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.

- c. Emission Limitation:

0.098 pound styrene/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.

- d. Emission Limitation:

0.538 ton OC/hr and 0.4 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
1100-ton, 468.6 pounds/hour, thermoplastic resin injection molding machine; No. 125	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

The H
PTI A
Issued: 5/24/00

Emissions Unit ID: **P158**

Applicable Emissions
Limitations/Control Measures

0.407 pound OC/hour
1.7 tons OC/year
0.3 pound styrene/hour
1.25 tons styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P048 No.2927501	P052 No.2924101
P045 No.2912505	P049 No.2920101	P054 No.2925402
P046 No.2912605	P050 No.2920201	P055 No.2920502
P047 No.2913205	P051 No.2923902	P056 No.2927302

**The H
PTI A
Issued: 5/24/00**

Emissions Unit ID: **P158**

P057	No.2927702	P093	No.2934102	P134	No.2923802
P058	No.2926002	P096	No.2914602	P135	No.2918205
P059	No.2926102	P097	No.2917502	P136	No.2928901
P060	No.2927902	P098	No.2919604	P137	No.2929001
P061	No.2928502	P099	No.2911004	P138	No.2929101
P062	No.2934801	P100	No.2912804	P139	No.2929502
P063	No.2926501	P101	No.2912904	P140	No.2929402
P064	No.2926401	P102	No.2913104	P141	No.2929302
P065	No.2926601	P103	No.2918904	P142	No.2929202
P066	No.2921101	P106	No.2914405	P143	No.2923002
P067	No.2928201	P107	No.2914305	P144	No.2922602
P068	No.2931201	P108	No.2912405	P145	No.2923102
P069	No.2932301	P109	No.2911405	P146	No.2923202
P070	No.2922601	P110	No.2915705	P147	No.2929602
P071	No.2934201	P113	No.2924201	P148	No.2923602
P072	No.2934301	P114	No.2924601	P149	New
P073	No.2934401	P115	No.2925201	P150	New
P074	No.2935001	P116	No.2925601	P151	New
P075	No.2934901	P117	No.2925801	P152	New
P076	No.2935201	P118	No.2926301	P153	New
P077	No.2930902	P119	No.2921701	P154	New
P078	No.2931002	P120	No.2925502	P155	No. 12
P080	No.2931402	P121	No.2927802	P156	No. 47
P081	No.2931602	P122	No.2928802	P157	No. 64
P082	No.2931502	P123	No.2922402	P158	No. 125
P083	No.2931702	P124	No.2928602	P159	No. 13
P084	No.2931902	P125	No.2921602	P160	No. 21
P085	No.2932102	P126	No.2932701	P161	No. 22
P086	No.2932502	P127	No.2933201	P162	No. 43
P087	No.2932802	P128	No.2933301	P163	No. 46
P088	No.2932902	P129	No.2934001	P164	No. 54
P089	No.2933002	P130	No.2934501	P165	No. 55
P090	No.2933102	P131	No.2930401	P166	No. 126
P091	No.2930302	P132	No.2918802		
P092	No.2931802	P133	No.2911705		

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection

molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting

plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):

- a. Emission Limitation:

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:

Record keeping as required in section II.C.1.

- b. Emission Limitation:
0.407 pound OC/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.

- c. Emission Limitation:
0.3 pound styrene/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.

- d. Emission Limitation:
1.7 tons OC/hr and 1.25 tons styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
85-ton, 18.6 pounds/hour, thermoplastic resin injection molding machine; No. 13	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

The H
PTI A
Issued: 5/24/00

Emissions Unit ID: **P159**

Applicable Emissions
Limitations/Control Measures

0.016 pound OC/hour
0.067 ton OC/year
0.012 pound styrene/hour
0.05 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

**The H
PTI A
Issued: 5/24/00**

Emissions Unit ID: **P159**

P054	No.2925402	P091	No.2930302	P133	No.2911705
P055	No.2920502	P092	No.2931802	P134	No.2923802
P056	No.2927302	P093	No.2934102	P135	No.2918205
P057	No.2927702	P096	No.2914602	P136	No.2928901
P058	No.2926002	P097	No.2917502	P137	No.2929001
P059	No.2926102	P098	No.2919604	P138	No.2929101
P060	No.2927902	P099	No.2911004	P139	No.2929502
P061	No.2928502	P100	No.2912804	P140	No.2929402
P062	No.2934801	P101	No.2912904	P141	No.2929302
P063	No.2926501	P102	No.2913104	P142	No.2929202
P064	No.2926401	P103	No.2918904	P143	No.2923002
P065	No.2926601	P106	No.2914405	P144	No.2922602
P066	No.2921101	P107	No.2914305	P145	No.2923102
P067	No.2928201	P108	No.2912405	P146	No.2923202
P068	No.2931201	P109	No.2911405	P147	No.2929602
P069	No.2932301	P110	No.2915705	P148	No.2923602
P070	No.2922601	P113	No.2924201	P149	New
P071	No.2934201	P114	No.2924601	P150	New
P072	No.2934301	P115	No.2925201	P151	New
P073	No.2934401	P116	No.2925601	P152	New
P074	No.2935001	P117	No.2925801	P153	New
P075	No.2934901	P118	No.2926301	P154	New
P076	No.2935201	P119	No.2921701	P155	No. 12
P077	No.2930902	P120	No.2925502	P156	No. 47
P078	No.2931002	P121	No.2927802	P157	No. 64
P080	No.2931402	P122	No.2928802	P158	No. 125
P081	No.2931602	P123	No.2922402	P159	No. 13
P082	No.2931502	P124	No.2928602	P160	No. 21
P083	No.2931702	P125	No.2921602	P161	No. 22
P084	No.2931902	P126	No.2932701	P162	No. 43
P085	No.2932102	P127	No.2933201	P163	No. 46
P086	No.2932502	P128	No.2933301	P164	No. 54
P087	No.2932802	P129	No.2934001	P165	No. 55
P088	No.2932902	P130	No.2934501	P166	No. 126
P089	No.2933002	P131	No.2930401		
P090	No.2933102	P132	No.2918802		

C. Monitoring and/or Record keeping Requirements

Emissions Unit ID: **P159**

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;

- c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and
- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):

- a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.

- b. Emission Limitation:
0.016 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.

- c. Emission Limitation:
0.012 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.

- d. Emission Limitation:
0.067 ton OC/hr and 0.05 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
 47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
 = 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
 = 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
230-ton, 40.2 pounds/hour, thermoplastic resin injection molding machine; No. 21	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

**The H
PTI A
Issued: 5/24/00**

Emissions Unit ID: **P160**

Applicable Emissions
Limitations/Control Measures

0.035 pound OC/hour
0.144 ton OC/year
0.026 pound styrene/hour
0.107 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

2.a This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

The Hoover Company Plant 1
PTI Application: 15-01305
Issued

Facility ID: 1576170258

Emissions Unit ID: **P160**

P054 No.2925402
P055 No.2920502
P056 No.2927302
P057 No.2927702
P058 No.2926002
P059 No.2926102
P060 No.2927902
P061 No.2928502
P062 No.2934801
P063 No.2926501
P064 No.2926401
P065 No.2926601
P066 No.2921101
P067 No.2928201
P068 No.2931201
P069 No.2932301
P070 No.2922601
P071 No.2934201
P072 No.2934301
P073 No.2934401
P074 No.2935001
P075 No.2934901
P076 No.2935201
P077 No.2930902
P078 No.2931002
P080 No.2931402
P081 No.2931602
P082 No.2931502
P083 No.2931702
P084 No.2931902
P085 No.2932102
P086 No.2932502
P087 No.2932802
P088 No.2932902
P089 No.2933002
P090 No.2933102

P091 No.2930302
P092 No.2931802
P093 No.2934102
P096 No.2914602
P097 No.2917502
P098 No.2919604
P099 No.2911004
P100 No.2912804
P101 No.2912904
P102 No.2913104
P103 No.2918904
P106 No.2914405
P107 No.2914305
P108 No.2912405
P109 No.2911405
P110 No.2915705
P113 No.2924201
P114 No.2924601
P115 No.2925201
P116 No.2925601
P117 No.2925801
P118 No.2926301
P119 No.2921701
P120 No.2925502
P121 No.2927802
P122 No.2928802
P123 No.2922402
P124 No.2928602
P125 No.2921602
P126 No.2932701
P127 No.2933201
P128 No.2933301
P129 No.2934001
P130 No.2934501
P131 No.2930401
P132 No.2918802

P133 No.2911705
P134 No.2923802
P135 No.2918205
P136 No.2928901
P137 No.2929001
P138 No.2929101
P139 No.2929502
P140 No.2929402
P141 No.2929302
P142 No.2929202
P143 No.2923002
P144 No.2922602
P145 No.2923102
P146 No.2923202
P147 No.2929602
P148 No.2923602
P149 New
P150 New
P151 New
P152 New
P153 New
P154 New
P155 No. 12
P156 No. 47
P157 No. 64
P158 No. 125
P159 No. 13
P160 No. 21
P161 No. 22
P162 No. 43
P163 No. 46
P164 No. 54
P165 No. 55
P166 No. 126

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting

plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):

- a. Emission Limitation:

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:

Record keeping as required in section II.C.1.

- b. Emission Limitation:
0.035 pound OC/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.

- c. Emission Limitation:
0.026 pound styrene/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.

- d. Emission Limitation:
0.144 ton OC/hr and 0.107 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
230-ton, 40.2 pounds/hour, thermoplastic resin injection molding machine; No. 22	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

Applicable Emissions
Limitations/Control Measures

0.035 pound OC/hour
0.144 ton OC/year
0.026 pound styrene/hour
0.107 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

2.a This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P048 No.2927501	P052 No.2924101
P045 No.2912505	P049 No.2920101	P054 No.2925402
P046 No.2912605	P050 No.2920201	P055 No.2920502
P047 No.2913205	P051 No.2923902	P056 No.2927302

**The H
PTI A****Issued: 5/24/00**Emissions Unit ID: **P161**

P057	No.2927702	P093	No.2934102	P134	No.2923802
P058	No.2926002	P096	No.2914602	P135	No.2918205
P059	No.2926102	P097	No.2917502	P136	No.2928901
P060	No.2927902	P098	No.2919604	P137	No.2929001
P061	No.2928502	P099	No.2911004	P138	No.2929101
P062	No.2934801	P100	No.2912804	P139	No.2929502
P063	No.2926501	P101	No.2912904	P140	No.2929402
P064	No.2926401	P102	No.2913104	P141	No.2929302
P065	No.2926601	P103	No.2918904	P142	No.2929202
P066	No.2921101	P106	No.2914405	P143	No.2923002
P067	No.2928201	P107	No.2914305	P144	No.2922602
P068	No.2931201	P108	No.2912405	P145	No.2923102
P069	No.2932301	P109	No.2911405	P146	No.2923202
P070	No.2922601	P110	No.2915705	P147	No.2929602
P071	No.2934201	P113	No.2924201	P148	No.2923602
P072	No.2934301	P114	No.2924601	P149	New
P073	No.2934401	P115	No.2925201	P150	New
P074	No.2935001	P116	No.2925601	P151	New
P075	No.2934901	P117	No.2925801	P152	New
P076	No.2935201	P118	No.2926301	P153	New
P077	No.2930902	P119	No.2921701	P154	New
P078	No.2931002	P120	No.2925502	P155	No. 12
P080	No.2931402	P121	No.2927802	P156	No. 47
P081	No.2931602	P122	No.2928802	P157	No. 64
P082	No.2931502	P123	No.2922402	P158	No. 125
P083	No.2931702	P124	No.2928602	P159	No. 13
P084	No.2931902	P125	No.2921602	P160	No. 21
P085	No.2932102	P126	No.2932701	P161	No. 22
P086	No.2932502	P127	No.2933201	P162	No. 43
P087	No.2932802	P128	No.2933301	P163	No. 46
P088	No.2932902	P129	No.2934001	P164	No. 54
P089	No.2933002	P130	No.2934501	P165	No. 55
P090	No.2933102	P131	No.2930401	P166	No. 126
P091	No.2930302	P132	No.2918802		
P092	No.2931802	P133	No.2911705		

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection

molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting

plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):

- a. Emission Limitation:

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:

Record keeping as required in section II.C.1.

- b. Emission Limitation:

0.035 pound OC/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.

- c. Emission Limitation:

0.026 pound styrene/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.

- d. Emission Limitation:

0.144 ton OC/hr and 0.107 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

$0.00087 \text{ lb OC/pound (styrene plastic)} \times 28,000,000 \text{ pounds/year} \times 1 \text{ ton}/2000 \text{ lbs}$
 $= 12.18 \text{ tons OC/yr}$

$0.00023 \text{ lb OC/pound (nonstyrene plastic)} \times 297,000,000 \text{ lbs/year} \times 1 \text{ ton}/2000 \text{ lbs}$
 $= 34.16 \text{ tons/year}$

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
230-ton, 40.2 pounds/hour, thermoplastic resin injection molding machine; No. 43	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

Applicable Emissions
Limitations/Control Measures

0.035 pound OC/hour
0.144 ton OC/year
0.026 pound styrene/hour
0.107 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

**The H
PTI A****Issued: 5/24/00**Emissions Unit ID: **P162**

P054	No.2925402	P091	No.2930302	P133	No.2911705
P055	No.2920502	P092	No.2931802	P134	No.2923802
P056	No.2927302	P093	No.2934102	P135	No.2918205
P057	No.2927702	P096	No.2914602	P136	No.2928901
P058	No.2926002	P097	No.2917502	P137	No.2929001
P059	No.2926102	P098	No.2919604	P138	No.2929101
P060	No.2927902	P099	No.2911004	P139	No.2929502
P061	No.2928502	P100	No.2912804	P140	No.2929402
P062	No.2934801	P101	No.2912904	P141	No.2929302
P063	No.2926501	P102	No.2913104	P142	No.2929202
P064	No.2926401	P103	No.2918904	P143	No.2923002
P065	No.2926601	P106	No.2914405	P144	No.2922602
P066	No.2921101	P107	No.2914305	P145	No.2923102
P067	No.2928201	P108	No.2912405	P146	No.2923202
P068	No.2931201	P109	No.2911405	P147	No.2929602
P069	No.2932301	P110	No.2915705	P148	No.2923602
P070	No.2922601	P113	No.2924201	P149	New
P071	No.2934201	P114	No.2924601	P150	New
P072	No.2934301	P115	No.2925201	P151	New
P073	No.2934401	P116	No.2925601	P152	New
P074	No.2935001	P117	No.2925801	P153	New
P075	No.2934901	P118	No.2926301	P154	New
P076	No.2935201	P119	No.2921701	P155	No. 12
P077	No.2930902	P120	No.2925502	P156	No. 47
P078	No.2931002	P121	No.2927802	P157	No. 64
P080	No.2931402	P122	No.2928802	P158	No. 125
P081	No.2931602	P123	No.2922402	P159	No. 13
P082	No.2931502	P124	No.2928602	P160	No. 21
P083	No.2931702	P125	No.2921602	P161	No. 22
P084	No.2931902	P126	No.2932701	P162	No. 43
P085	No.2932102	P127	No.2933201	P163	No. 46
P086	No.2932502	P128	No.2933301	P164	No. 54
P087	No.2932802	P129	No.2934001	P165	No. 55
P088	No.2932902	P130	No.2934501	P166	No. 126
P089	No.2933002	P131	No.2930401		
P090	No.2933102	P132	No.2918802		

C. Monitoring and/or Record keeping Requirements

Emissions Unit ID: **P162**

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;

- c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and
- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.
 - b. Emission Limitation:
0.035 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.
 - c. Emission Limitation:
0.026 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.
 - d. Emission Limitation:
0.144 ton OC/hr and 0.107 ton styrene/year

The Hoover Company Plant 1

PTI Application: 15-01305

Issued

Facility ID: 1576170258

Emissions Unit ID: **P162**

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
300-ton, 55.2 pounds/hour, thermoplastic resin injection molding machine; No. 54	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

Applicable Emissions
Limitations/Control Measures

0.048 pound OC/hour
0.198 ton OC/year
0.036 pound styrene/hour
0.148 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

The Hoover Company Plant 1
PTI Application: 15-01305
Issued

Facility ID: 1576170258

Emissions Unit ID: P163

P054 No.2925402
P055 No.2920502
P056 No.2927302
P057 No.2927702
P058 No.2926002
P059 No.2926102
P060 No.2927902
P061 No.2928502
P062 No.2934801
P063 No.2926501
P064 No.2926401
P065 No.2926601
P066 No.2921101
P067 No.2928201
P068 No.2931201
P069 No.2932301
P070 No.2922601
P071 No.2934201
P072 No.2934301
P073 No.2934401
P074 No.2935001
P075 No.2934901
P076 No.2935201
P077 No.2930902
P078 No.2931002
P080 No.2931402
P081 No.2931602
P082 No.2931502
P083 No.2931702
P084 No.2931902
P085 No.2932102
P086 No.2932502
P087 No.2932802
P088 No.2932902
P089 No.2933002
P090 No.2933102

P091 No.2930302
P092 No.2931802
P093 No.2934102
P096 No.2914602
P097 No.2917502
P098 No.2919604
P099 No.2911004
P100 No.2912804
P101 No.2912904
P102 No.2913104
P103 No.2918904
P106 No.2914405
P107 No.2914305
P108 No.2912405
P109 No.2911405
P110 No.2915705
P113 No.2924201
P114 No.2924601
P115 No.2925201
P116 No.2925601
P117 No.2925801
P118 No.2926301
P119 No.2921701
P120 No.2925502
P121 No.2927802
P122 No.2928802
P123 No.2922402
P124 No.2928602
P125 No.2921602
P126 No.2932701
P127 No.2933201
P128 No.2933301
P129 No.2934001
P130 No.2934501
P131 No.2930401
P132 No.2918802

P133 No.2911705
P134 No.2923802
P135 No.2918205
P136 No.2928901
P137 No.2929001
P138 No.2929101
P139 No.2929502
P140 No.2929402
P141 No.2929302
P142 No.2929202
P143 No.2923002
P144 No.2922602
P145 No.2923102
P146 No.2923202
P147 No.2929602
P148 No.2923602
P149 New
P150 New
P151 New
P152 New
P153 New
P154 New
P155 No. 12
P156 No. 47
P157 No. 64
P158 No. 125
P159 No. 13
P160 No. 21
P161 No. 22
P162 No. 43
P163 No. 46
P164 No. 54
P165 No. 55
P166 No. 126

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting

plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):

- a. Emission Limitation:

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:

Record keeping as required in section II.C.1.

- b. Emission Limitation:

0.048 pound OC/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.

- c. Emission Limitation:

0.036 pound styrene/hour

Applicable Compliance Method:

Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.

- d. Emission Limitation:

0.198 ton OC/hr and 0.148 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

$0.00087 \text{ lb OC/pound (styrene plastic)} \times 28,000,000 \text{ pounds/year} \times 1 \text{ ton}/2000 \text{ lbs}$
 $= 12.18 \text{ tons OC/yr}$

$0.00023 \text{ lb OC/pound (nonstyrene plastic)} \times 297,000,000 \text{ lbs/year} \times 1 \text{ ton}/2000 \text{ lbs}$
 $= 34.16 \text{ tons/year}$

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
300-ton, 55.2 pounds/hour, thermoplastic resin injection molding machine; No. 55	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

The H
PTI A
Issued: 5/24/00

Emissions Unit ID: **P164**

Applicable Emissions
Limitations/Control Measures

0.048 pound OC/hour
0.198 ton OC/year
0.036 pound styrene/hour
0.148 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

2.a This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
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1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P048 No.2927501	P052 No.2924101
P045 No.2912505	P049 No.2920101	P054 No.2925402
P046 No.2912605	P050 No.2920201	P055 No.2920502
P047 No.2913205	P051 No.2923902	P056 No.2927302

**The H
PTI A****Issued: 5/24/00**Emissions Unit ID: **P164**

P057	No.2927702	P093	No.2934102	P134	No.2923802
P058	No.2926002	P096	No.2914602	P135	No.2918205
P059	No.2926102	P097	No.2917502	P136	No.2928901
P060	No.2927902	P098	No.2919604	P137	No.2929001
P061	No.2928502	P099	No.2911004	P138	No.2929101
P062	No.2934801	P100	No.2912804	P139	No.2929502
P063	No.2926501	P101	No.2912904	P140	No.2929402
P064	No.2926401	P102	No.2913104	P141	No.2929302
P065	No.2926601	P103	No.2918904	P142	No.2929202
P066	No.2921101	P106	No.2914405	P143	No.2923002
P067	No.2928201	P107	No.2914305	P144	No.2922602
P068	No.2931201	P108	No.2912405	P145	No.2923102
P069	No.2932301	P109	No.2911405	P146	No.2923202
P070	No.2922601	P110	No.2915705	P147	No.2929602
P071	No.2934201	P113	No.2924201	P148	No.2923602
P072	No.2934301	P114	No.2924601	P149	New
P073	No.2934401	P115	No.2925201	P150	New
P074	No.2935001	P116	No.2925601	P151	New
P075	No.2934901	P117	No.2925801	P152	New
P076	No.2935201	P118	No.2926301	P153	New
P077	No.2930902	P119	No.2921701	P154	New
P078	No.2931002	P120	No.2925502	P155	No. 12
P080	No.2931402	P121	No.2927802	P156	No. 47
P081	No.2931602	P122	No.2928802	P157	No. 64
P082	No.2931502	P123	No.2922402	P158	No. 125
P083	No.2931702	P124	No.2928602	P159	No. 13
P084	No.2931902	P125	No.2921602	P160	No. 21
P085	No.2932102	P126	No.2932701	P161	No. 22
P086	No.2932502	P127	No.2933201	P162	No. 43
P087	No.2932802	P128	No.2933301	P163	No. 46
P088	No.2932902	P129	No.2934001	P164	No. 54
P089	No.2933002	P130	No.2934501	P165	No. 55
P090	No.2933102	P131	No.2930401	P166	No. 126
P091	No.2930302	P132	No.2918802		
P092	No.2931802	P133	No.2911705		

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.
 - b. Emission Limitation:
0.048 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.
 - c. Emission Limitation:
0.036 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.
 - d. Emission Limitation:
0.198 ton OC/hr and 0.148 ton styrene/year

Applicable Compliance Method:
Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.
 - d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
300-ton, 55.2 pounds/hour, thermoplastic resin injection molding machine; No. 46	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

The H
PTI A
Issued: 5/24/00

Emissions Unit ID: **P165**

Applicable Emissions
Limitations/Control Measures

0.048 pound OC/hour
0.198 ton OC/year
0.036 pound styrene/hour
0.148 ton styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

**The H
PTI A
Issued: 5/24/00**

Emissions Unit ID: **P165**

P054	No.2925402	P091	No.2930302	P133	No.2911705
P055	No.2920502	P092	No.2931802	P134	No.2923802
P056	No.2927302	P093	No.2934102	P135	No.2918205
P057	No.2927702	P096	No.2914602	P136	No.2928901
P058	No.2926002	P097	No.2917502	P137	No.2929001
P059	No.2926102	P098	No.2919604	P138	No.2929101
P060	No.2927902	P099	No.2911004	P139	No.2929502
P061	No.2928502	P100	No.2912804	P140	No.2929402
P062	No.2934801	P101	No.2912904	P141	No.2929302
P063	No.2926501	P102	No.2913104	P142	No.2929202
P064	No.2926401	P103	No.2918904	P143	No.2923002
P065	No.2926601	P106	No.2914405	P144	No.2922602
P066	No.2921101	P107	No.2914305	P145	No.2923102
P067	No.2928201	P108	No.2912405	P146	No.2923202
P068	No.2931201	P109	No.2911405	P147	No.2929602
P069	No.2932301	P110	No.2915705	P148	No.2923602
P070	No.2922601	P113	No.2924201	P149	New
P071	No.2934201	P114	No.2924601	P150	New
P072	No.2934301	P115	No.2925201	P151	New
P073	No.2934401	P116	No.2925601	P152	New
P074	No.2935001	P117	No.2925801	P153	New
P075	No.2934901	P118	No.2926301	P154	New
P076	No.2935201	P119	No.2921701	P155	No. 12
P077	No.2930902	P120	No.2925502	P156	No. 47
P078	No.2931002	P121	No.2927802	P157	No. 64
P080	No.2931402	P122	No.2928802	P158	No. 125
P081	No.2931602	P123	No.2922402	P159	No. 13
P082	No.2931502	P124	No.2928602	P160	No. 21
P083	No.2931702	P125	No.2921602	P161	No. 22
P084	No.2931902	P126	No.2932701	P162	No. 43
P085	No.2932102	P127	No.2933201	P163	No. 46
P086	No.2932502	P128	No.2933301	P164	No. 54
P087	No.2932802	P129	No.2934001	P165	No. 55
P088	No.2932902	P130	No.2934501	P166	No. 126
P089	No.2933002	P131	No.2930401		
P090	No.2933102	P132	No.2918802		

C. Monitoring and/or Record keeping Requirements

Emissions Unit ID: **P165**

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;

- c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and
- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.
 - b. Emission Limitation:
0.048 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.
 - c. Emission Limitation:
0.036 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.
 - d. Emission Limitation:
0.198 ton OC/hr and 0.148 ton styrene/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.

- d. **Emission Limitation**
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-21-07(G)(2)
1100-ton, 468.6 pounds/hour, thermoplastic resin injection molding machine; No. 126	OAC rule 3745-31-05	
	OAC rule 3745-35-07(B)	

The H
PTI A
Issued: 5/24/00

Emissions Unit ID: **P166**

Applicable Emissions
Limitations/Control Measures

0.407 pound OC/hour
1.7 tons OC/year
0.3 pound styrene/hour
1.25 tons styrene/year

The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded. No plastic shall contain more than 0.4% styrene monomer.

The total annual organic compound emissions from all 115 plastic injection molding machines at this facility shall not exceed 47.4 tons/year. To achieve this limit, the maximum amount of plastic molded shall not exceed 325,000,000 pounds/year, based upon a rolling, 12-month summation of the plastic molded

This emissions unit shall not employ any photochemically reactive material. (See section II.A.2.a.)

2. Additional Terms and Conditions

- 2.a** This emissions unit shall not employ any photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This includes both plastics and any mold-release agents. If no photochemically reactive materials are used, this emissions unit is exempt from the limits on organic compound emissions found in OAC rule 3745-21-07 because it qualifies for the exemption found in OAC rule 3745-21-07(G)(9)(f).

B. Operational Restrictions

1. To achieve enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all plastic injection molding machines:

Calendar Month(s) (After Permit Issuance)	Maximum Allowable Cumulative lbs of Styrene-Emitting Plastic Molded	Maximum Allowable Cumulative lbs. of Plastic Molded
1	2,333,000	27,083,333
1-2	4,666,000	54,166,667
1-3	7,000,000	81,250,000
1-4	9,333,000	108,333,333
1-5	11,666,000	135,416,667
1-6	14,000,000	162,500,000
1-7	16,333,000	189,583,333
1-8	18,666,000	216,666,667
1-9	21,000,000	243,750,000
1-10	23,333,000	270,833,333
1-11	25,666,000	297,916,667
1-12	28,000,000	325,000,000

After the first 12 calendar months of operation following the issuance of this permit, the annual production rate limitations shall be based upon a rolling, 12-month summation of the amount of styrene-emitting plastic molded and the total plastic molded.

2. The following is a list of the plastic injection molding machines at this facility:

P044 No.2911501	P047 No.2913205	P050 No.2920201
P045 No.2912505	P048 No.2927501	P051 No.2923902
P046 No.2912605	P049 No.2920101	P052 No.2924101

The Hoover Company Plant 1
PTI Application: 15-01305
Issued

Facility ID: 1576170258

Emissions Unit ID: **P166**

P054 No.2925402
P055 No.2920502
P056 No.2927302
P057 No.2927702
P058 No.2926002
P059 No.2926102
P060 No.2927902
P061 No.2928502
P062 No.2934801
P063 No.2926501
P064 No.2926401
P065 No.2926601
P066 No.2921101
P067 No.2928201
P068 No.2931201
P069 No.2932301
P070 No.2922601
P071 No.2934201
P072 No.2934301
P073 No.2934401
P074 No.2935001
P075 No.2934901
P076 No.2935201
P077 No.2930902
P078 No.2931002
P080 No.2931402
P081 No.2931602
P082 No.2931502
P083 No.2931702
P084 No.2931902
P085 No.2932102
P086 No.2932502
P087 No.2932802
P088 No.2932902
P089 No.2933002
P090 No.2933102

P091 No.2930302
P092 No.2931802
P093 No.2934102
P096 No.2914602
P097 No.2917502
P098 No.2919604
P099 No.2911004
P100 No.2912804
P101 No.2912904
P102 No.2913104
P103 No.2918904
P106 No.2914405
P107 No.2914305
P108 No.2912405
P109 No.2911405
P110 No.2915705
P113 No.2924201
P114 No.2924601
P115 No.2925201
P116 No.2925601
P117 No.2925801
P118 No.2926301
P119 No.2921701
P120 No.2925502
P121 No.2927802
P122 No.2928802
P123 No.2922402
P124 No.2928602
P125 No.2921602
P126 No.2932701
P127 No.2933201
P128 No.2933301
P129 No.2934001
P130 No.2934501
P131 No.2930401
P132 No.2918802

P133 No.2911705
P134 No.2923802
P135 No.2918205
P136 No.2928901
P137 No.2929001
P138 No.2929101
P139 No.2929502
P140 No.2929402
P141 No.2929302
P142 No.2929202
P143 No.2923002
P144 No.2922602
P145 No.2923102
P146 No.2923202
P147 No.2929602
P148 No.2923602
P149 New
P150 New
P151 New
P152 New
P153 New
P154 New
P155 No. 12
P156 No. 47
P157 No. 64
P158 No. 125
P159 No. 13
P160 No. 21
P161 No. 22
P162 No. 43
P163 No. 46
P164 No. 54
P165 No. 55
P166 No. 126

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain records which list the following information for all plastic injection molding machines at this facility:

- a. during the first 12 calendar months of operation following the issuance of this permit, the cumulative total amount of both the styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility during each calendar month; and
 - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of both the total amount of styrene-emitting plastic molded and of the total plastic molded in all 115 of the plastic injection molding machines at this facility for each calendar month.
2. The permittee shall collect and record the following information for each grade of plastic employed in this emissions unit:
 - a. the company identification of each grade of plastic;
 - b. the amount of styrene monomer in each grade of plastic; and
 - c. whether each grade of plastic contains photochemically reactive materials (PRM) as defined in OAC rule 3745-21-01(C)(5).
 3. The permittee shall collect and record the following information for each mold-release agent employed in this emissions unit:
 - a. the company identification of each mold-release agent employed; and
 - b. documentation on whether or not each mold-release agent is a photochemically reactive material (PRM) as defined in OAC rule 3745-21-01(C)(5).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of plastic which contains more than 0.4% styrene monomer;
 - b. any exceedance of the total cumulative monthly limitations on either the amount of styrene-emitting plastic molded or the total plastic molded in the 115 plastic injection molding machines at this facility;
 - c. any exceedances of the rolling, 12-month limits of either the amount of styrene-emitting plastic molded or the total plastic molded; and

- d. any use of photochemically reactive mold-release agents or plastics.

E. Testing Requirements

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation:
The total annual styrene emissions from all 115 plastic injection molding machines at this facility shall not exceed 9.1 tons/year. To achieve this limit, the maximum amount of styrene-emitting plastic molded shall not exceed 28,000,000 pounds/year, based upon a rolling, 12-month summation of the styrene-emitting plastic molded.

Applicable Compliance Method:
Record keeping as required in section II.C.1.
 - b. Emission Limitation:
0.407 pound OC/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene containing plastics of 0.00087 lb OC/pound of plastic times the pounds of plastic made per hour.
 - c. Emission Limitation:
0.3 pound styrene/hour

Applicable Compliance Method:
Multiply the facility-provided emission factor for styrene-emitting plastic of 0.00065 lb styrene/ lb of styrene-emitting plastic times the pounds of styrene-emitting plastic per hour.
 - d. Emission Limitation:
1.7 tons OC/hr and 1.25 tons styrene/year

Applicable Compliance Method:
Multiply the hourly emission limit times 8,760 hours/year and divide by 2,000.
 - d. Emission Limitation
47.74 tons OC/year from the 115 machines at this facility

Applicable Compliance Method

Limiting the amount of total plastics molded to 325,000,000 pounds/year, based upon a rolling, 12-month summation. The facility supplied emission factor for styrene containing plastic is 0.00087 lb OC/pound. The facility supplied emission factor for nonstyrene plastic is 0.00023 lb OC/pound.

0.00087 lb OC/pound (styrene plastic) times 28,000,000 pounds/year times 1 ton/2000 lbs
= 12.18 tons OC/yr

0.00023 lb OC/pound (nonstyrene plastic) times 297,000,000 lbs/year times 1 ton/2000 lbs
= 34.16 tons/year

F. Miscellaneous Requirements

1. FESOPs will be used to make the limits found in this permit to install federally enforceable.