

1

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

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

If the construction of the proposed source(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 Ohio Administrative Code (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

2

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

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 cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

3

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

4

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
-------------------------------	-------------------------------------	--------------------------	---	--

AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Hoover Company - Plant #1** located in **Stark** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P154	420 ton 92.25 pounds/hour Thermoplastic resin injection/molding machine	See Additional Special Terms and Conditions	3745-21-07 (G) (9)	This emissions unit shall not employ any photochemically reactive material.
			3745-31-05	Emission limits for this emissions unit: 0.08 pound OC/hour 0.35 ton OC/year 0.06 pound styrene/hour 0.26 ton styrene/year
				Emission limit for all 106 injection/

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

molding
machine
s at
facilit
y:
9.1
tons
styrene
/year
47.74
tons
OC/year

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
OC	0.35
OC*	47.74*
Styrene	0.26
Styrene*	9.10*

* This limit is for the total emissions from all injection/molding machines at this facility.

Note: The information contained under this Summary section is for informational purposes only and is not enforceable.

RECORD(S) RETENTION AND AVAILABILITY

7

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Canton Air Pollution Control, 420 Market Ave. North, Canton, OH 44702-1544.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Canton Air Pollution Control, 420 Market Ave. North, Canton, OH 44702-1544.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

8

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

I. Emissions Unit P154 - 420 ton

A. Operational Restrictions (P154)

1. This emissions unit shall not employ any photochemically reactive materials as defined in OAC 3745-21-01(C)(5). This includes both plastics and any mold release agents employed.
2. The total annual styrene emissions from all 106 plastic injection/molding machines at this facility, including this new machine, shall not exceed 9.1 tons. 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.

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

The total annual organic compound emissions from all 106 plastic injection/molding machines at this facility, including this new machine, shall not exceed 47.74 tons. 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.

The following is the list of the plastic injection/molding machines:

P044	No.2911504	P088	No.2932902	P132	No.2918802
P045	No.2912505	P089	No.2933002	P133	No.2911705
P046	No.2912605	P090	No.2933102	P134	No.2923802
P047	No.2913205	P091	No.2930302	P135	No.2918205
P048	No.2927501	P092	No.2931802	P136	No.2928901
P049	No.2920101	P093	No.2934102	P137	No.2929001
P050	No.2920201	P094	No.2917202	P138	No.2929101
P051	No.2923902	P095	No.2917302	P139	No.2929502
P052	No.2924102	P096	No.2914602	P140	No.2929402
P053	No.2924002	P097	No.2917502	P141	No.2929302
P054	No.2925402	P098	No.2919604	P142	No.2929202
P055	No.2920502	P099	No.2911004	P143	No.2923002
P056	No.2927302	P100	No.2912804	P144	No.2922602
P057	No.2927702	P101	No.2912904	P145	No.2923102
P058	No.2926002	P102	No.2913104	P146	No.2923202
P059	No.2926102	P103	No.2918904	P147	No.2929602
P060	No.2927902	P104	No.2919505	P148	No.2923602
P061	No.2928502	P105	No.2910805	P149	New
P062	No.2934801	P106	No.2914405	P150	New
P063	No.2926501	P107	No.2914305	P151	New
P064	No.2926401	P108	No.2912405	P152	New
P065	No.2926601	P109	No.2911405	P153	New
P066	No.2921101	P110	No.2915705	P154	New
P067	No.2928201	P111	No.2915605		
P068	No.2931201	P112	No.2919005		
P069	No.2932301	P113	No.2924201		
P070	No.2932601	P114	No.2924601		
P071	No.2934201	P115	No.2925201		
P072	No.2934301	P116	No.2925601		
P073	No.2934401	P117	No.2925801		
P074	No.2935001	P118	No.2926301		
P075	No.2934901	P119	No.2921701		
P076	No.2935201	P120	No.2925502		
P077	No.2930902	P121	No.2927802		
P078	No.2931002	P122	No.2928802		
P079	No.2931102	P123	No.2922402		
P080	No.2931402	P124	No.2928602		

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

P081 No.2931602 P125 No.2921602
 P082 No.2931502 P126 No.2932701
 P083 No.2931702 P127 No.2933201
 P084 No.2931902 P128 No.2933301
 P085 No.2932102 P129 No.2934001
 P086 No.2932502 P130 No.2934501
 P087 No.2932802 P131 No.2930401

3. No plastics shall be molded which contain more than 0.4 percent styrene monomer.
4. To achieve enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table for all of the plastic injection/molding machines:

<u>Calendar Month(s)</u> <u>(After Permit Issuance)</u>	<u>Maximum Allowable</u> <u>Cumulative Lbs of</u> <u>Styrene Emitting</u> <u>Plastic Molded</u>	<u>Maximum</u> <u>Allowable</u> <u>Cumulative Lbs of</u> <u>Plastic Molded</u>
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	9,333,333	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, compliance with 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 amount of plastic molded.

B. Monitoring and/or Recordkeeping Requirements (P154)

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

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 containing plastic molded and of the total plastic molded in all 106 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 the 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 106 of the plastic injection/molding machines at this facility for each calendar month.
2. The permittee shall maintain records of the amount of styrene monomer in every grade of plastic that is employed in this emissions unit.

C. Reporting Requirements (P154)

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. any use of a grade of plastic which contains more than 0.4 percent styrene monomer;
 - b. any exceedances of the total cumulative monthly limitations on either the amount of styrene emitting plastic molded or the total plastic molded in the 106 plastic injection/molding machines at this facility;
 - c. any exceedances of the rolling, twelve-month limits of the amount of either the styrene emitting plastic molded or the total plastic molded; and,
 - d. any use of photochemically reactive mold release agents or plastics.

D. Compliance Methods and Testing Requirements (P154)

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

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

method(s):

a. Emission Limitation

0.08 pound OC/hr

Applicable Compliance Method

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

$0.00087 \text{ lb OC/lb} \times 92.25 \text{ lbs/hr} = 0.08 \text{ lb OC/hr}$

b. Emission Limitation

0.06 pound styrene/hr

Applicable Compliance Method

Multiply the facility provided emission factor for styrene containing plastics of 0.00065 lb styrene/lb styrene containing plastic times the pounds of styrene containing plastic used per hour.

$0.00065 \text{ lb styrene/pound styrene plastic} \times 92.25 \text{ lbs/hr} = 0.06 \text{ lb styrene/hr}$

c. Emission Limitation

9.1 tons styrene/year from the 106 machines at this facility

Applicable Compliance Method

Limiting the amount of styrene containing plastics molded to 28,000,000 pounds/year, based upon a rolling, 12-month summation. Use the facility supplied emission factor of 0.00065 lb styrene/lb of styrene plastic.

$0.00065 \text{ lb styrene/pound of plastic} \times 28,000,000 \text{ lbs/yr} \times 1 \text{ ton}/2000 \text{ lbs} = 9.1 \text{ tons styrene/yr}$

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

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 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

12.18 tons OC/yr + 34.16 tons OC/yr = 46.34 tons OC/yr

Facility Name: **Hoover Company - Plant #1**

Application Number: **15-1365**

Date: **May 12, 1999**

e. Emission Limitation

0.35 ton OC/yr and 0.26 ton styrene/yr

Applicable Compliance Method

Multiply the hourly emission limit times 8,760 hrs/yr and then divide by 2,000.

E. Miscellaneous (P154)

1. None.