



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL  
STARK COUNTY  
Application No: 15-01435**

**CERTIFIED MAIL**

Y	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: 8/29/2000**

Ansell Perry Massillon Plant  
Aaron Gustkey  
550 1875 Harsh Avenue SE  
Massillon, OH 446460550

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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



**FINAL PERMIT TO INSTALL 15-01435**

Application Number: 15-01435  
APS Premise Number: 1576130455  
Permit Fee: **\$800**  
Name of Facility: Ansell Perry Massillon Plant  
Person to Contact: Aaron Gustkey  
Address: 550 1875 Harsh Avenue SE  
Massillon, OH 446460550

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1875 Harsh Avenue SE**  
**Massillon, Ohio**

Description of proposed emissions unit(s):  
**This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit 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 emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

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 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>
Ammonia	15.37(Entire facility)
NOx	10
CO	8.4
SO2	0.06
OC	16.84
PM	21.2

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
<p>P010 - Glove Line #5 with fabric filter.                      This is a Chapter 31 modification for emissions units P010 (Line #5) and P012 (Line #7), and it will supersede PTIs 15-1297 and 15-1272.</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>The opacity of visible emissions from any of the stacks servicing this emissions unit shall not exceed 10%, as a 3-minute average.</p> <p>Organic compound emissions shall not exceed 1.98 pounds/hour, 0.723 ton/month and 8.68 tons/year.</p> <p>Particulate emissions shall not exceed 2.42 pounds/hour and 10.6 tons/year.</p> <p>Particulate emissions from the stack servicing the Vacuum Powder Removal (VPR) glove separator shall not exceed 0.005 gr/ACFM.</p> <p>Nitrogen oxides emissions shall not exceed 1.14 pounds/hour and 5 tons/year.</p> <p>Carbon monoxide emissions shall not exceed 0.96 pound/hour and 4.2 tons/year.</p> <p>Sulfur dioxide emissions shall not exceed 0.007 pound/hour and 0.03 ton/year.</p> <p>Ammonia emissions from this entire facility shall not exceed 3.51</p>

OAC rule 3745-17-07(A)(1)

pounds/hour, 1.28 tons/month and 15.37 tons/year.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)(4)

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

## 2. Additional Terms and Conditions

None

## B. Operational Restrictions

1. Glove Line #5 shall consist of two sides. Each of these sides will be capable of producing any of the following glove types:
  - a. Standard Latex Powered Glove;
  - b. Dermaguard Plus - polyurethane overdip and alcohol-free, water-based starch slurry - requires coating the latex with polyurethane and using a starch slurry as a donning agent;
  - c. Dermashield (Encore Mark IV)- alum overdip, alcohol-free (water-based) blend polymer overdip and silicone emulsion overdip; and
  - d. Elite Mark IV - polyurethane dip, alum overdip, alcohol -free (water-based) blend polymer overdip.
2. The maximum line speed shall be 25 feet per minute.
3. The Alcohol Blend Polymer Solution shall no longer be employed for this glove line (Synthetic Polyurethane and Robust Encore Powder-Free glove types are permanently discontinued).
4. At least 80% of the PM emissions from the strip booth and the Vacuum Powder Removal (VPR) glove separator shall be vented to a fabric filter.
5. The polyurethane and polymer tanks shall be covered during downtime or periods of off-production.

6. The pressure drop across the fabric filter servicing the VPR Glove Separator shall be maintained within the range of 0.25 to 4.00 inches of water while the emissions unit is in operation.
7. The allowables in this permit represent the maximum capacity of this emissions unit; so, no daily recordkeeping is being required.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect, record, and maintain monthly records for this glove line as follows:
  - a. The company identification for each liquid containing organic material that may be emitted to the ambient air.
  - b. The number of gallons of each of the following solutions employed:
    - i. Synthetic Polyurethane Solution:
    - ii. Polyurethane Solution; and
    - iii. Alcohol-Free (Water-based) Blend Polymer Solution.
  - c. The organic content of each of the solutions found above in term C.1.b, in pounds per gallon. (Testing of the organic content of these solutions does not have to be conducted each day).
  - d. The total uncontrolled organic compound emission rate for this line (including all solutions).
  - e. The total amount of ammonia found in the latex used by all of the emissions units at this facility.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the fabric filter on a weekly basis.
3. The permit to install for these two emissions units (P010 and P012) and the entire facility for the emissions of ammonia was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model. Using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for "worst case" pollutant:

Pollutant: ammonia

TLV (ug/m3): 17,413

Maximum Hourly Emission Rate (lbs/hr): 31.5 lbs/hour

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 404.5

MAGLC (ug/m3): 415

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the “Air Toxic Policy” is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the “Air Toxic Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxic Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the “Air Toxic Policy” include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials) or the use of new materials that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienists (ACGIH),” than the lowest TLV previously modeled;
- b. changes in the composition of the materials used, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that is proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the “Air Toxic Policy” will be satisfied for the above changes, the Ohio EPA will not consider the changes(s) to be a “modification” under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (V)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the “Air Toxic Policy:”

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the “Air Toxic Policy”; and

- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any month in which the organic compound emissions exceeded 0.723 ton.
3. The permittee shall submit quarterly deviation (excursion) reports that identify any month in which the ammonia usage exceeded 1.28 tons for the entire facility.

**E. Testing Requirements**

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

- a. **Emission Limitation**

The opacity of visible emissions from any of the stacks servicing this emissions unit shall not exceed 10%, as a 3-minute average.

**Applicable Compliance Method**

Method 9 from 40 CFR Part 60 Appendix A

- b. **Emission Limitation**

Organic compound emissions shall not exceed 1.981 pounds/hour, 0.723 ton/month and 8.68 tons/year.

**Applicable Compliance Method**

Monthly records shall be maintained of the OC contents of each liquid containing organic material that may be emitted to the ambient air and the calculated monthly total OC emission rate for each liquid containing organic material that may be emitted to the ambient air in this facility. The mass of organic compounds per volume of each organic liquid shall be determined in accordance with the procedures in OAC rule 3745-21-10(B) and OAC rule 3745-21-04(B)(5). The OC content of each organic liquid shall be determined using USEPA Methods 24 and 24A. If pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular organic liquid, the permittee shall notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- c. **Emission Limitation**

Particulate emissions shall not exceed 2.42 pounds/hour and 10.6 tons/year.

Applicable Compliance Method

If required, Method 5 of 40 CFR Part 60, Appendix A.

d. Emission Limitation

Nitrogen oxides emissions shall not exceed 1.14 pounds/hour and 5 tons/year.

Applicable Compliance Method

These limits are based on the emission factor of 100 lbs NO<sub>x</sub>/MMCF found in AP-42, Table 1.4-1 (2/98 Edition).  $0.01143 \text{ MMCF/hr} \times 100 \text{ lbs NO}_x/\text{MMCF} = 1.14 \text{ lbs NO}_x/\text{hr}$

e. Emission Limitation

Carbon monoxide emissions shall not exceed 0.96 pound/hour and 4.2 tons/year.

Applicable Compliance Method

These limits are based on the emission factor of 84 lbs CO/MMCF found in AP-42, Table 1.4-1 (2/98 Edition).  $0.01143 \text{ MMCF/hr} \times 84 \text{ lbs CO/MMCF} = 0.96 \text{ lb CO/hr}$

f. Emission Limitation

Sulfur dioxide emissions shall not exceed 0.007 pound/hour and 0.03 ton/year.

Applicable Compliance Method

These limits are based on the emission factor of 0.6 lb SO<sub>2</sub>/MMCF found in AP-42, Table 1.4-2 (2/98 Edition).  $0.01143 \text{ MMCF/hr} \times 0.6 \text{ lb SO}_2/\text{MMCF} = 0.007 \text{ lb/hr}$ .

g. Emission Limitation

Ammonia emissions from this entire facility shall not exceed 3.51 pounds/hour, 1.28 tons/month and 15.37 tons/year.

Applicable Compliance Method

To determine emissions, multiply the facility-wide total natural latex usage (pounds) by the corresponding average ammonia content (as offloaded), established per the most recent testing.

**F. Miscellaneous Requirements**

1. This permit to install supersedes the terms and conditions found in permit to install 15-1297 issued on December 10, 1997 and permit to install 15-1272 issued on December 30, 1996.

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
<p>P012 - Glove Line #7 with fabric filter. This is a Chapter 31 modification for emissions units P010 (Line #5) and P012 (Line #7), and it will supersede PTIs 15-1297 and 15-1272.</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>The opacity of visible emissions from any of the stacks servicing this emissions unit shall not exceed 10%, as a 3-minute average.</p> <p>Organic compound emissions shall not exceed 1.862 pounds/hour, 0.68 ton/month and 8.16 tons/year.</p> <p>Particulate emissions shall not exceed 2.42 pounds/hour and 10.6 tons/year.</p> <p>Particulate emissions from the stack servicing the Vacuum Powder Removal (VPR) glove separator shall not exceed 0.005 gr/ACFM.</p> <p>Nitrogen oxides emissions shall not exceed 1.14 pounds/hour and 5 tons/year.</p> <p>Carbon monoxide emissions shall not exceed 0.96 pound/hour and 4.2 tons/year.</p> <p>Sulfur dioxide emissions shall not exceed 0.007 pound/hour and 0.03 ton/year.</p> <p>Ammonia emissions from this entire facility shall not exceed 3.51 pounds/hour, 1.28 tons/month and 15.37 tons/year.</p>

OAC rule 3745-17-07(A)(1)

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)(4)

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions**

None

## **B. Operational Restrictions**

1. Glove Line #5 shall consist of two sides. Each of these sides will be capable of producing any of the following glove types:
  - a. Standard Latex Powered Glove;
  - b. Dermaguard Plus - polyurethane overdip and alcohol-free, water-based starch slurry - requires coating the latex with polyurethane and using a starch slurry as a donning agent;
  - c. Dermashield (Encore Mark IV)- alum overdip, alcohol-free (water-based) blend polymer overdip and silicone emulsion overdip; and
  - d. Elite Mark IV - polyurethane dip, alum overdip, alcohol -free (water-based) blend polymer overdip.
2. The maximum line speed shall be 25 feet per minute.
3. The Alcohol Blend Polymer Solution shall no longer be employed for this glove line (Synthetic Polyurethane and Robust Encore Powder-Free glove types are permanently discontinued).
4. At least 80% of the PM emissions from the strip booth and the Vacuum Powder Removal (VPR) glove separator shall be vented to a fabric filter.
5. The polyurethane and polymer tanks shall be covered during downtime or periods of off-production.
6. The pressure drop across the fabric filter servicing the VPR Glove Separator shall be maintained within the range of 0.25 to 4.00 inches of water while the emissions unit is in operation.

7. The allowables in this permit represent the maximum capacity of this emissions unit; so, no daily recordkeeping is being required.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect, record, and maintain monthly records for this glove line as follows:
  - a. The company identification for each liquid containing organic material that may be emitted to the ambient air.
  - b. The number of gallons of each of the following solutions employed:
    - i. Synthetic Polyurethane Solution:
    - ii. Polyurethane Solution; and
    - iii. Alcohol-Free (Water-based) Blend Polymer Solution.
  - c. The organic content of each of the solutions found above in term C.1.b, in pounds per gallon.  
(Testing of the organic content of these solutions does not have to be conducted each day).
  - d. The total uncontrolled organic compound emission rate for this line (including all solutions).
  - e. The total amount of ammonia found in the latex used by all of the emissions units at this facility.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the fabric filter on a weekly basis.
3. The permit to install for these two emissions units (P010 and P012) and the entire facility for the emissions of ammonia was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model. Using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for "worst case" pollutant:

Pollutant: ammonia

TLV (ug/m3): 17,413

Maximum Hourly Emission Rate (lbs/hr): 31.5 lbs/hour

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 404.5

MAGLC (ug/m3): 415

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials) or the use of new materials that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV previously modeled;
- b. changes in the composition of the materials used, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that is proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the changes(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (V)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any month in which the organic compound emissions exceeded 0.68 ton.
3. The permittee shall submit quarterly deviation (excursion) reports that identify any month in which the ammonia usage exceeded 1.28 tons for the entire facility.

**E. Testing Requirements**

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

- a. **Emission Limitation**

The opacity of visible emissions from any of the stacks servicing this emissions unit shall not exceed 10%, as a 3-minute average.

**Applicable Compliance Method**

If required, Method 9 from 40 CFR Part 60 Appendix A.

- b. **Emission Limitation**

Organic compound emissions shall not exceed 1.862 pounds/hour, 0.68 ton/month and 8.16 tons/year.

**Applicable Compliance Method**

Monthly records shall be maintained of the OC contents of each liquid containing organic material that may be emitted to the ambient air and the calculated monthly total OC emission rate for each liquid containing organic material that may be emitted to the ambient air in this facility. The mass of organic compounds per volume of each organic liquid shall be determined in accordance with the procedures in OAC rule 3745-21-10(B) and OAC rule 3745-21-04(B)(5). The OC content of each organic liquid shall be determined using USEPA Methods 24 and 24A. If pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, the permittee determines that Method 24 or 24A cannot be used for a particular organic liquid, the permittee shall notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- c. **Emission Limitation**

Particulate emissions shall not exceed 2.42 pounds/hour and 10.6 tons/year.

Applicable Compliance Method

If required, Method 5 of 40 CFR Part 60, Appendix A.

d. Emission Limitation

Nitrogen oxides emissions shall not exceed 1.14 pounds/hour and 5 tons/year.

Applicable Compliance Method

These limits are based on the emission factor of 100 lbs NO<sub>x</sub>/MMCF found in AP-42, Table 1.4-1 (2/98 Edition).  $0.01143 \text{ MMCF/hr} \times 100 \text{ lbs NO}_x/\text{MMCF} = 1.14 \text{ lbs NO}_x/\text{hr}$

e. Emission Limitation

Carbon monoxide emissions shall not exceed 0.96 pound/hour and 4.2 tons/year.

Applicable Compliance Method

These limits are based on the emission factor of 84 lbs CO/MMCF found in AP-42, Table 1.4-1 (2/98 Edition).  $0.01143 \text{ MMCF/hr} \times 84 \text{ lbs CO/MMCF} = 0.96 \text{ lb CO/hr}$

f. Emission Limitation

Sulfur dioxide emissions shall not exceed 0.007 pound/hour and 0.03 ton/year.

Applicable Compliance Method

These limits are based on the emission factor of 0.6 lb SO<sub>2</sub>/MMCF found in AP-42, Table 1.4-2 (2/98 Edition).  $0.01143 \text{ MMCF/hr} \times 0.6 \text{ lb SO}_2/\text{MMCF} = 0.007 \text{ lb/hr}$ .

g. Emission Limitation

Ammonia emissions from this entire facility shall not exceed 3.51 pounds/hour, 1.28 tons/month and 15.37 tons/year.

Applicable Compliance Method

To determine emissions, multiply the facility-wide total natural latex usage (pounds) by the corresponding average ammonia content (as offloaded), established per the most recent testing.

**F. Miscellaneous Requirements**

1. This permit to install supersedes the terms and conditions found in permit to install 15-1297 issued on December 10, 1997 and permit to install 15-1272 issued on December 30, 1996.

**NEW SOURCE REVIEW FORM B**

PTI Number:  
15-01435

Facility ID:  
1576130455

FACILITY NAME Ansell Perry Massillon Plant

FACILITY DESCRIPTION This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272. CITY/TWP Massillon

SIC CODE 3069 SCC CODE \_\_\_\_\_ EMISSIONS UNIT ID P010

EMISSIONS UNIT DESCRIPTION Continuous Glove Line #5 This is a chapter 31 modification and will supersede PTI 15-1297.

DATE INSTALLED \_\_\_\_\_

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			2.42 lbs/hr	10.6
PM <sub>10</sub>					
Sulfur Dioxide	Attainment			0.007 lb/hr	0.03
Organic Compounds	Attainment			1.98 lbs/hr	8.68
Nitrogen Oxides	Attainment			1.14 lbs/hr	5
Carbon Monoxide	Attainment			0.96 lb/hr	4.2
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? X YES \_\_\_\_\_ NO \_\_\_\_\_

IDENTIFY THE AIR CONTAMINANTS: Ammonia

**NEW SOURCE REVIEW FORM B**

PTI Number: 15-01435 Facility ID: 1576130455

FACILITY NAME Ansell Perry Massillon Plant

FACILITY DESCRIPTION This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272. CITY/TWP Massillon

SIC CODE 3069 SCC CODE EMISSIONS UNIT ID P012

EMISSIONS UNIT DESCRIPTION Continuous Glove Line #7 This is a chapter 31 modification and will supersede PTI 15-1272.

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			2.42 lbs/hr	10.6
PM <sub>10</sub>	Attainment				
Sulfur Dioxide	Attainment			0.007 lb/hr	0.03
Organic Compounds	Attainment			1.862 lbs/hr	8.16
Nitrogen Oxides	Attainment			1.14 lbs/hr	5
Carbon Monoxide	Attainment			0.96 lb/hr	4.2
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? X YES NO

IDENTIFY THE AIR CONTAMINANTS: Ammonia

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed

**NEW SOURCE REVIEW FORM B**PTI Number:  
15-01435Facility ID:  
1576130455

FACILITY NAME    Ansell Perry Massillon Plant

FACILITY DESCRIPTION	This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272.	CITY/TWP	Massillon
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as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)**

<i>Please fill out the following. If the checkbox does not work, replace it with an 'X'</i>	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input checked="" type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

**NSR Discussion**

These two glove lines P010 and P012 have been modified many times in the past. This particular modification is very significant because these lines will no longer use the alcohol blend polymer solution which was used to produce the Synthetic Polyurethane and Robust Encore Powder-Free glove types. The elimination of these solutions means that the catalytic oxidizer is no longer needed. This modification allows an increase in line production by adding dual glove forms per conveyor side for P010 and allows for an increase in the maximum line speed to 25 feet per minute for both P010 and P012. This modification will result in an increase in the allowable PM emissions. Lines #5 and #7 are almost identical except that Line #7 has only 93.7% of the production capacity of Line #5.

Calculations

NO<sub>x</sub>

AP-42 Table 1.4-1 (2/98 Edition) = 100 lbs NO<sub>x</sub>/MMCF  
 Maximum fuel usage in ovens = 11,430 CF/hr or 0.01143 MMCF/hr

0.01143 MMCF/hr x 100 lbs NO<sub>x</sub>/MMCF = 1.14 lbs NO<sub>x</sub>/hr  
 1.14 lbs NO<sub>x</sub>/hr x 8,760 hrs/yr x 1 ton/2,000 lbs = 5 tons NO<sub>x</sub>/yr

CO

AP-42 Table 1.4-1 (2/98 Edition) = 84 lbs CO/MMCF  
 Maximum fuel usage in ovens = 11,430 CF/hr or 0.01143 MMCF/hr

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**NEW SOURCE REVIEW FORM B**

PTI Number:  
15-01435

Facility ID:  
1576130455

FACILITY NAME    Ansell Perry Massillon Plant

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$0.01143 \text{ MMCF/hr} \times 84 \text{ lbs CO/MMCF} = 0.96 \text{ lb CO/hr}$   
 $0.96 \text{ lb CO/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 4.2 \text{ tons CO/yr}$

### SO<sub>2</sub>

AP-42 Table 1.4-2 (2/98 Edition) = 0.6 lb SO<sub>2</sub>/MMCF  
 Maximum fuel usage in ovens = 11,430 CF/hr or 0.01143 MMCF/hr

$0.01143 \text{ MMCF/hr} \times 0.6 \text{ lb SO}_2/\text{MMCF} = 0.007 \text{ lb SO}_2/\text{hr}$   
 $0.007 \text{ lb SO}_2/\text{hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 0.03 \text{ ton SO}_2/\text{yr}$

### OC

From Oven

AP-42 Table 1.4-2 (2/98 Edition) = 8.7 lbs OC/MMCF  
 Maximum fuel usage in ovens = 11,430 CF/hr or 0.01143 MMCF/hr

$0.01143 \text{ MMCF/hr} \times 8.7 \text{ lbs OC/MMCF} = 0.1 \text{ lb OC/hr}$

From Organic Solutions (Note Line #7 operates at only 93.7% of the capacity of Line #5)

Synthetic Polyurethane Dip

OC content = 0.001 lb OC/gallon  
 Maximum usage rate = 61 gallons/hour

$0.001 \text{ lb OC/gal} \times 61 \text{ gal/hr} = 0.061 \text{ lb OC/hr (Line #5)}$   
 $0.057 \text{ lb OC/hr (Line #7)}$

Polyurethane Overdip

OC content = 0.14 lb/gal  
 Maximum usage rate = 12 gal/hr

$0.14 \text{ lb OC/gal} \times 12 \text{ gal/hr} = 1.68 \text{ lbs OC/hr (Line #5)}$   
 $1.57 \text{ lbs OC/hr (Line #7)}$

Alcohol-free (water-based) Blend Polymer Overdip

OC content = 0.13 lb/gal

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**NEW SOURCE REVIEW FORM B**

PTI Number:  
15-01435

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Maximum usage rate = 14 gal/hr

$0.13 \text{ lb/gal} \times 14 \text{ gal/hr} = 1.82 \text{ lbs OC/hr (Line \#5)}$   
 $1.705 \text{ lbs OC/hr (line \#7)}$

Highest OC Emission Rate is for Elite Mark IV Glove on Line #5

Polyurethane Dip 0.061 lb/hr  
 Polymer 1.820 lbs/hr  
 Oven 0.100 lb/hr

Total  $1.981 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 8.68 \text{ tons/yr}$

Highest OC Emission Rate is for Elite Mark IV Glove on Line #7

Polyurethane Dip 0.057 lb/hr  
 Polymer 1.705 lbs/hr  
 Oven 0.100 lb/hr

Total  $1.862 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 8.16 \text{ tons/yr}$

### PM Emissions

From Oven

AP-42 Table 1.4-2 (2/98 Edition) = 1.9 lbs PM/MMCF  
 Maximum fuel usage in ovens = 11,430 CF/hr or 0.01143 MMCF/hr

$0.01143 \text{ MMCF/hr} \times 1.9 \text{ lbs PM/MMCF} = 0.02 \text{ lb PM/hr}$

From making latex powdered gloves

15.00 lbs corn starch per hour input to stripper booth  
 - 4.72 lbs corn starch per hour remains on glove  
 10.28 lbs corn starch generated

$10.28 \text{ lbs PM/hr} \times 0.8 \text{ (80\% capture)} \times 0.01 \text{ (99\% control eff.)} = 0.08 \text{ lb PM/hr}$

$0.005 \text{ gr/ACFM} \times 7,100 \text{ ACFM} = 35.5 \text{ gr/min} \times 60 \text{ min/hr} \times 1 \text{ lb}/7,000 \text{ gr} = 0.3 \text{ lb PM/hr}$

**NEW SOURCE REVIEW FORM B**

PTI Number:  
15-01435

Facility ID:  
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FACILITY NAME    Ansell Perry Massillon Plant

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This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272.	Massillon

### Fugitive

$10.28 \text{ lbs PM/hr} \times 0.2 \text{ (80\% capture)} = 2.1 \text{ lbs PM/hr}$

### Combined PM

Oven	0.02 lb PM/hr
Stack	0.30 lb PM/hr
Fugitive	2.10 lbs PM/hr

Total                     $2.42 \text{ lbs PM/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 10.6 \text{ tons PM/yr}$

### Ammonia

There is 0.44 lb ammonia/136.3 lbs latex or 0.0032 lb ammonia/lb latex

The maximum usage rate for latex for the entire facility is 1,097 lbs/hr.

$1,097 \text{ lbs latex/hr} \times 0.0032 \text{ lbs ammonia/lb latex} = 3.51 \text{ lbs ammonia/hr}$

$3.51 \text{ lbs ammonia/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 15.37 \text{ tons ammonia/yr}$

08/21/00  
15:54:51

\*\*\* SCREEN3 MODEL RUN \*\*\*  
\*\*\* VERSION DATED 96043 \*\*\*

PTI 15-01435 Ansell Ammonia

### SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	.442623
STACK HEIGHT (M)	=	10.5000
STK INSIDE DIAM (M)	=	10.5000
STK EXIT VELOCITY (M/S)	=	2.3400
STK GAS EXIT TEMP (K)	=	300.0000
AMBIENT AIR TEMP (K)	=	293.0000
RECEPTOR HEIGHT (M)	=	.0000
URBAN/RURAL OPTION	=	RURAL
BUILDING HEIGHT (M)	=	10.4000
MIN HORIZ BLDG DIM (M)	=	137.0000

**NEW SOURCE REVIEW FORM B**

PTI Number:  
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MAX HORIZ BLDG DIM (M) = 220.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.  
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 14.757 M\*\*4/S\*\*3; MOM. FLUX = 147.400 M\*\*4/S\*\*2.

\*\*\* FULL METEOROLOGY \*\*\*

\*\*\*\*\*  
\*\*\* SCREEN AUTOMATED DISTANCES \*\*\*  
\*\*\*\*\*

\*\*\* TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES \*\*\*

DIST (M)	CONC (UG/M**3)	U10M STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
10.	.0000	1	1.0	1.0	320.0	171.27	6.54	5.83	NO
100.	117.4	5	5.0	5.1	10000.0	16.05	6.12	9.64	SS
200.	43.85	4	8.0	8.1	2560.0	15.43	15.56	14.23	SS
300.	26.13	4	8.0	8.1	2560.0	17.93	22.61	17.31	SS
400.	19.81	4	8.0	8.1	2560.0	17.93	29.45	20.26	SS
500.	15.49	4	8.0	8.1	2560.0	17.93	36.15	23.11	SS
600.	12.95	4	5.0	5.0	1600.0	29.68	42.72	25.03	SS
700.	11.57	4	5.0	5.0	1600.0	29.68	49.19	27.75	SS
800.	10.28	4	5.0	5.0	1600.0	29.68	55.57	30.41	SS
900.	9.219	4	5.0	5.0	1600.0	29.68	61.88	31.10	SS
1000.	8.286	4	5.0	5.0	1600.0	29.68	68.13	33.36	SS
1100.	7.982	6	4.0	4.1	10000.0	35.17	36.96	18.29	SS
1200.	8.165	6	4.0	4.1	10000.0	35.17	40.01	19.03	SS
1300.	8.273	6	4.0	4.1	10000.0	35.17	43.04	19.76	SS
1400.	8.318	6	4.0	4.1	10000.0	35.17	46.05	20.47	SS
1500.	8.314	6	4.0	4.1	10000.0	35.17	49.03	21.17	SS
1600.	7.831	6	4.0	4.1	10000.0	35.17	51.99	21.16	SS
1700.	7.801	6	4.0	4.1	10000.0	35.17	54.94	21.81	SS
1800.	7.710	6	4.0	4.1	10000.0	35.17	57.87	22.39	SS
1900.	7.603	6	4.0	4.1	10000.0	35.17	60.78	22.96	SS
2000.	7.484	6	4.0	4.1	10000.0	35.17	63.68	23.51	SS
2100.	7.357	6	4.0	4.1	10000.0	35.17	66.56	24.06	SS

**NEW SOURCE REVIEW FORM B**

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2200.	7.225	6	4.0	4.1	10000.0	35.17	69.42	24.59	SS
2300.	7.088	6	4.0	4.1	10000.0	35.17	72.28	25.12	SS
2400.	6.948	6	4.0	4.1	10000.0	35.17	75.12	25.63	SS
2500.	6.824	6	3.5	3.6	10000.0	37.47	77.95	25.92	SS
2600.	6.720	6	3.5	3.6	10000.0	37.47	80.76	26.42	SS
2700.	6.613	6	3.5	3.6	10000.0	37.47	83.57	26.92	SS
2800.	6.382	6	3.5	3.6	10000.0	37.47	86.36	26.84	SS
2900.	6.274	6	3.5	3.6	10000.0	37.47	89.15	27.28	SS
3000.	6.163	6	3.5	3.6	10000.0	37.47	91.92	27.68	SS
3500.	5.743	6	3.0	3.1	10000.0	40.38	105.65	29.46	SS
4000.	5.383	6	2.5	2.6	10000.0	44.22	119.17	31.08	SS
4500.	5.087	6	2.5	2.6	10000.0	44.22	132.50	32.80	SS
5000.	4.811	6	2.0	2.1	10000.0	49.60	145.67	34.21	SS
5500.	4.618	6	2.0	2.1	10000.0	49.60	158.69	35.76	SS
6000.	4.428	6	1.0	1.0	10000.0	70.46	172.43	40.99	NO
6500.	4.369	6	1.0	1.0	10000.0	70.46	185.14	42.27	NO
7000.	4.297	6	1.0	1.0	10000.0	70.46	197.74	43.52	NO
7500.	4.198	6	1.0	1.0	10000.0	70.46	210.24	44.59	NO
8000.	4.097	6	1.0	1.0	10000.0	70.46	222.64	45.62	NO
8500.	3.996	6	1.0	1.0	10000.0	70.46	234.96	46.62	NO
9000.	3.896	6	1.0	1.0	10000.0	70.46	247.20	47.59	NO
9500.	3.798	6	1.0	1.0	10000.0	70.46	259.36	48.53	NO
10000.	3.702	6	1.0	1.0	10000.0	70.46	271.44	49.45	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10. M:  
32. 404.5    6    4.0    4.1    10000.0    12.19    1.45    5.59    SS

DWASH= MEANS NO CALC MADE (CONC = 0.0)  
 DWASH=NO MEANS NO BUILDING DOWNWASH USED  
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED  
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED  
 DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3\*LB

\*\*\*\*\*  
 \*\*\* REGULATORY (Default) \*\*\*  
 PERFORMING CAVITY CALCULATIONS  
 WITH ORIGINAL SCREEN CAVITY MODEL  
 (BRODE, 1988)  
 \*\*\*\*\*

**NEW SOURCE REVIEW FORM B**

PTI Number:  
15-01435

Facility ID:  
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FACILITY DESCRIPTION	This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272.	CITY/TWP	Massillon
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\*\*\* CAVITY CALCULATION - 1 \*\*\*      \*\*\* CAVITY CALCULATION - 2 \*\*\*

CONC (UG/M**3) = 112.4	CONC (UG/M**3) = 180.4
CRIT WS @10M (M/S) = 2.27	CRIT WS @10M (M/S) = 2.27
CRIT WS @ HS (M/S) = 2.30	CRIT WS @ HS (M/S) = 2.30
DILUTION WS (M/S) = 1.15	DILUTION WS (M/S) = 1.15
CAVITY HT (M) = 10.40	CAVITY HT (M) = 10.40
CAVITY LENGTH (M) = 61.22	CAVITY LENGTH (M) = 55.84
ALONGWIND DIM (M) = 137.00	ALONGWIND DIM (M) = 220.00

\*\*\*\*\*  
 END OF CAVITY CALCULATIONS  
 \*\*\*\*\*

\*\*\*\*\*  
 \*\*\* SUMMARY OF SCREEN MODEL RESULTS \*\*\*  
 \*\*\*\*\*

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	404.5	32.	0.
BLDG. CAVITY-1	112.4	61.	-- (DIST = CAVITY LENGTH)
BLDG. CAVITY-2	180.4	56.	-- (DIST = CAVITY LENGTH)

TLV ammonia = 17,413 ug/m3 /42 = 415 ug/m3 = MAGLC

Since 404.5 ug/m3 is less than 415 ug/m3, the Air Toxic Determination passes.

**Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):**

Synthetic Minor Determination and/or     Netting Determination  
**Permit To Install ENTER PTI NUMBER HERE**

**A. Source Description**

**B. Facility Emissions and Attainment Status**

**NEW SOURCE REVIEW FORM B**PTI Number:  
15-01435Facility ID:  
1576130455

FACILITY NAME    Ansell Perry Massillon Plant

FACILITY DESCRIPTION	This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272.	CITY/TWP	Massillon
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**C. Source Emissions****D. Conclusion****PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:**

NONE

Please complete:

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

<u>Pollutant</u>	<u>Tons Per Year</u>
Ammonia	15.37(Entire facility)
NOx	10
CO	8.4
SO2	0.06
OC	16.84
PM	21.2

**NEW SOURCE REVIEW FORM B**

PTI Number:  
15-01435

Facility ID:  
1576130455

FACILITY NAME    Ansell Perry Massillon Plant

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FACILITY DESCRIPTION

This is a chapter 31 modification for emissions units P010 (line #5) and P012 (line #7) and it will supersede PTIs 15-1297 and 15-1272.

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CITY/TWP

Massillon

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