



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: December 18, 2009

RE: Kautex Textron, North America / 113-28670-00035

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FN-REGIS.dot 1/2/08



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Ms. Teresa Mansfield
Kautex Textron, North America
210 Green Drive
Avilla, IN 46710

December 18, 2009

Re: 113-28670-00035
First Registration Revision to
R113-10985-00035

Dear Ms. Teresa Mansfield:

Kautex Textron, North America was issued a Registration No. R113-10985-00035 on August 10, 1999 for a stationary plastic fuel tanks manufacturer for automobiles, located at 210 Green Drive, Avilla, IN 46710. On date, the Office of Air Quality (OAQ) received an application from the source relating to the removal of the hand wipe cleaning process and modifications of the blow molding units to add in-line grinding units to the blow molding lines, as documented in the Technical Support Document (TSD).

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration. A copy of the registration is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jason R. Krawczyk, at (800) 451-6027, press 0 and ask for Mr. Krawczyk or extension 2-8427, or dial (317) 232-8427.

Sincerely,

Iryn Galilung, Section Chief
Permits Branch
Office of Air Quality

IC/JRK

Attachment: Revised Registration

cc: File - Noble County
Noble County Health Department
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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REGISTRATION OFFICE OF AIR QUALITY

Kautex Textron, North America
210 Green Road
Avilla, IN 46710

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 113-10985-00035	
Issued by: <i>Original Signed By:</i> Paul Dubenetzky, Chief Permits Branch Office of Air Management	Issuance Date: August 10, 1999

Registration Revision No. 113-28670-00035	
Issued by: <i>Alyn Callung for</i> Alyn Callung, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 18, 2009

SECTION A

SOURCE SUMMARY

This registration is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary plastic fuel tanks manufacturer for automobiles

Source Address:	210 Green Drive, Avilla, IN 46710
Mailing Address:	210 Green Drive, Avilla, IN 46710
General Source Phone Number:	(260) 897-8104
SIC Code:	3089
County Location:	Noble
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) Blow Molding Operation, identified as BMM, constructed prior to 1999, consisting of:
- (1) One (1) Blow Molding Line, identified as BMM1, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (2) One (1) Blow Molding Line, identified as BMM2, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 2,646 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (3) One (1) Blow Molding Line, identified as BMM3, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (4) One (1) Blow Molding Line, identified as BMM4, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,874 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (5) One (1) Blow Molding Line, identified as BMM5, consisting of a blow molding machine, and an in-line grinder which is shared with BMM6, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (6) One (1) Blow Molding Line, identified as BMM6, consisting of a blow molding machine, and in-line grinder which is shared with BMM5, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.

- (7) One (1) Blow Molding Line, identified as BMM7, consisting of a blow molding machine, and in-line grinder which is shared with BMM8, with a maximum throughput capacity of 1,764 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
- (8) One (1) Blow Molding Line, identified as BMM8, consisting of a blow molding machine and in-line grinder which is shared with BMM7, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
- (9) One (1) Blow Molding Line, identified as BMM9, replaced in 2009, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,653 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, with a maximum throughput capacity of 16,887 pounds per hour, using a cyclone and fabric filters in series as particulate control, exhausting through general vents GV-1 through GV-10.
- (c) One (1) 30-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.
- (d) Material handling and storage operations, consisting of five (5) silos, with a combined maximum throughput capacity 16,887 pounds per hour.
- (e) Natural gas-fired space heaters with heat input equal to or less than ten million (10,000,000) British thermal units per hour (Btu/hr).

SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this registration shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

B.3 Registration Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. 113-10985-00035 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indianapolis, IN 46204-2251

- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this registration:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 Fugitive Dust Emissions [326 IAC 6-4]

The Registrant shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

SECTION D.1

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) Blow Molding Operation, identified as BMM, constructed prior to 1999, consisting of:
- (1) One (1) Blow Molding Line, identified as BMM1, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (2) One (1) Blow Molding Line, identified as BMM2, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 2,646 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (3) One (1) Blow Molding Line, identified as BMM3, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (4) One (1) Blow Molding Line, identified as BMM4, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,874 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (5) One (1) Blow Molding Line, identified as BMM5, consisting of a blow molding machine, and an in-line grinder which is shared with BMM6, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (6) One (1) Blow Molding Line, identified as BMM6, consisting of a blow molding machine, and in-line grinder which is shared with BMM5, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (7) One (1) Blow Molding Line, identified as BMM7, consisting of a blow molding machine, and in-line grinder which is shared with BMM8, with a maximum throughput capacity of 1,764 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (8) One (1) Blow Molding Line, identified as BMM8, consisting of a blow molding machine and in-line grinder which is shared with BMM7, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (9) One (1) Blow Molding Line, identified as BMM9, replaced in 2009, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,653 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, with a maximum throughput capacity of 16,887 pounds per hour, using a cyclone and fabric filters in series as particulate

control, exhausting through general vents GV-1 through GV-10.

- (c) One (1) 30-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.
- (d) Material handling and storage operations, consisting of five (5) silos, with a combined maximum throughput capacity 16,887 pounds per hour.
- (e) Natural gas-fired space heaters with heat input equal to or less than ten million (10,000,000) British thermal units per hour (Btu/hr).

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the source shall comply with the following limitations:

- (a) Particulate matter (PM) from the In-Line Grinding Units shall not exceed the pounds per hour limitations based on the process weight rates as listed in the table below:

Emission Unit ID	Process Weight Rate (ton/hr)	Allowable PM Emission Rate (lb/hr)
BMM1	0.75	3.38
BMM2	1.32	4.94
BMM3	0.75	3.38
BMM4	0.94	3.93
BMM5	0.99	4.07
BMM6	0.99	4.07
BMM7	0.88	3.76
BMM8	0.99	4.07
BMM9	0.83	3.62

- (b) Particulate matter (PM) from the Large Shredder shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour.
- (c) Particulate matter (PM) from the Small Grinder shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour.
- (d) Particulate matter (PM) from the material handling and storage operations shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

SECTION D.2

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (c) One (1) 30-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2][326 IAC 8-3-5]

Pursuant to 326 IAC 8-3-2, for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

Pursuant to 326 IAC 8-3-5(b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:

- (1) Close the cover whenever articles are not being handled in the degreaser.
- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

**REGISTRATION
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Kautex Textron, North America
Address:	210 Green Road
City:	Avilla, IN 46710
Phone Number:	source general phone
Registration No.:	113-10985-00035

- I hereby certify that Kautex Textron, North America is :
- I hereby certify that Kautex Textron, North America is :
- still in operation.
 - no longer in operation.
 - in compliance with the requirements of Registration No. 113-10985-00035.
 - not in compliance with the requirements of Registration No. 113-10985-00035.

Authorized Individual (typed):
Title:
Signature:
Phone Number:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Revision

Source Description and Location

Source Name: Kautex Textron, North America
Source Location: 210 Green Drive, Avilla, IN 46710
County: Noble
SIC Code: 3089
Registration No.: 113-10985-00035
Registration Issuance Date: August 10, 1999
Registration Revision No.: 113-28670-00035
Permit Reviewer: Jason R. Krawczyk

On November 12, 2009, the Office of Air Quality (OAQ) received an application from Kautex Textron, North America related to a modification to an existing plastic fuel tanks manufacturer for automobiles.

Existing Approvals

The source was issued Registration No. 113-10985-00035 on August 10, 1999. The source has since received no other approvals.

County Attainment Status

The source is located in Noble County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Noble County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Noble County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements.

The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

Noble County has been classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Blow Molding Lines	2.03	2.03	2.03	-	-	3.14	-	0.01	negl.
Shredder Room	3.11	3.11	3.11	-	-	-	-	-	-
Cold Cleaner	-	-	-	-	-	0.15	-	-	-
Fuel Tank Treatment Process	-	-	-	-	-	-	-	-	-
Hand Wipe Cleaning Process	-	-	-	-	-	0.84	-	0.88	0.51 Toluene
Natural Gas Combustion	0.13	0.13	0.13	0.01	1.11	0.06	0.23	0.02	0.02 Hexane
Total PTE of the Entire Source	5.28	5.28	5.28	0.01	1.11	4.19	0.23	0.92	0.51 Toluene
Exemptions Levels	5	5	5	10	10	10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10
negl. = negligible These emissions are based upon emissions calculations performed for Registration 113-10985-00035, issued August 10, 1999.									

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Kautex Textron, North America on November 12, 2009, relating to:

- 1) the replacement of blow molding line 9 (P-002, unit #9);
- 2) the removal of the hand wipe cleaning process (P-003);
- 3) the replacement of the cold solvent degreaser (P-001), with a 30 gallon drum-mounted parts washer (Cold Cleaner);
- 4) the modification of the blow molding unit throughputs (P-002, units #1 through #9);
- 5) the modification of the shredding and grinding operation (P-004) throughput;
- 6) the re-identification of emission units

The following is a list of the new/modified emission units and pollution control devices:

- (a) One (1) Blow Molding Operation, identified as BMM, constructed prior to 1999, consisting of:

- (1) One (1) Blow Molding Line, identified as BMM1, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (2) One (1) Blow Molding Line, identified as BMM2, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 2,646 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (3) One (1) Blow Molding Line, identified as BMM3, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (4) One (1) Blow Molding Line, identified as BMM4, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,874 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (5) One (1) Blow Molding Line, identified as BMM5, consisting of a blow molding machine, and an in-line grinder which is shared with BMM6, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (6) One (1) Blow Molding Line, identified as BMM6, consisting of a blow molding machine, and in-line grinder which is shared with BMM5, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (7) One (1) Blow Molding Line, identified as BMM7, consisting of a blow molding machine, and in-line grinder which is shared with BMM8, with a maximum throughput capacity of 1,764 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (8) One (1) Blow Molding Line, identified as BMM8, consisting of a blow molding machine and in-line grinder which is shared with BMM7, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
 - (9) One (1) Blow Molding Line, identified as BMM9, replaced in 2009, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,653 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.
- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, with a maximum throughput capacity of 16,887 pounds per hour, using a cyclone and fabric filters in series as particulate control, exhausting through general vents GV-1 through GV-10.
 - (c) One (1) 30-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.
 - (d) Material handling and storage operations, consisting of five (5) silos, with a combined maximum throughput capacity 16,887 pounds per hour.

- (e) Natural gas-fired space heaters with heat input equal to or less than ten million (10,000,000) British thermal units per hour (Btu/hr).

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-5.5-6. This table reflects the PTE before controls of the proposed revision.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Blow Molding Lines ^α	(0.06)	(0.06)	(0.06)	-	-	6.34	-	-	-
In-Line Grinding Units	5.60	5.60	5.60	-	-	-	-	-	-
Shredder Room ^β	(2.59)	(2.59)	(2.59)	-	-	-	-	-	-
Cold Cleaner	-	-	-	-	-	0.44	-	-	-
Fuel Tank Treatment Process	-	-	-	-	-	-	-	-	-
Hand Wipe Cleaning Process ^χ	-	-	-	-	-	(0.84)	-	(0.88)	(0.51) Toluene
Storage and Handling	7.40	3.70	3.70	-	-	-	-	-	-
Natural Gas Combustion ^δ	(0.11)	(0.11)	(0.11)	-	-	-	0.70	-	-
Total PTE of Proposed Revision	10.22	6.59	6.59	-	-	5.95	0.70	(0.88)	(0.51) Toluene

negl. = negligible
 * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
 Parenthesis "()" denote a negative number (i.e. a decrease in emissions).
^α Decrease in Blow Molding Line particulate PTE attributed to revision of blow molding line throughputs.
^β Decrease in Shredder Room particulate PTE attributed to revision in throughput and calculation method.
^χ Hand Wipe Cleaning Process has been removed from the source. Therefore there is no longer a PTE.
^δ Decrease in Natural Gas Combustion particulate PTE attributed to update AP-42 emission factors.

This Registration is being revised through a Registration Revision pursuant to 326 IAC 2-5.5.6(g), because the revision involves the construction of emission units with potential to emit (PTE) PM and PM10 greater than the thresholds in 326 IAC 2-5.5.6(d)(12).

PTE of the Entire Source After Issuance of the Registration Revision

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units.

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
Blow Molding Lines	2.03 1.97	2.03 1.97	2.03 1.97	-	-	3.14 9.48	-	0.01	negl.
In-Line Grinding Units	5.60	5.60	5.60	-	-	-	-	-	-
Shredder Room	3.11 0.52	3.11 0.52	3.11 0.52	-	-	-	-	-	-
Cold Cleaner	-	-	-	-	-	0.15 0.59	-	-	-
Fuel Tank Treatment Process **	-	-	-	-	-	-	-	-	-
Hand Wipe Cleaner Process **	-	-	-	-	-	0.84	-	0.88	0.51 Toluene
Storage and Handling ***	7.40	3.70	3.70	-	-	-	-	-	-
Natural Gas Combustion	0.13 0.02	0.13 0.08	0.13 0.08	0.01	1.11	0.06	0.93	0.02	0.02 Hexane
Total PTE of Entire Source	5.28 15.50	5.28 11.87	5.28 11.87	0.01	1.11	4.19 10.14	0.23 0.93	0.92 0.04	0.02 Hexane
Exemptions Levels	5	5	5	10	10	10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". ** The facility has removed the Fuel Tank Treatment Process and Hand Wipe Cleaner Process. *** Registration 113-10985-00035 did not account for potential emissions from material storage and handling operations.									

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted).

Process/ Emission Unit	Potential To Emit of the Entire Source after issuance of Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Blow Molding Lines	1.97	1.97	1.97	-	-	9.48	-	0.01	negl.
In-Line Grinding Units	5.60	5.60	5.60	-	-	-	-	-	-
Shredder Room	0.52	0.52	0.52	-	-	-	-	-	-
Cold Cleaner	-	-	-	-	-	0.59	-	-	-
Storage and Handling	7.40	3.70	3.70	-	-	-	-	-	-
Natural Gas Combustion	0.02	0.08	0.08	0.01	1.11	0.06	0.93	0.02	0.02 Hexane
Total PTE of Entire Source	15.50	11.87	11.87	0.01	1.11	10.14	0.93	0.04	0.02 Hexane
Exemptions Levels	5	5	5	10	10	10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10
negl. = negligible									
* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

- (a) This revision will not change the registration status of the source, because the uncontrolled/unlimited potential to emit of all criteria pollutants from the entire source will still be within the ranges listed in 326 IAC 2-5.5-1(b)(1) and the PTE of all other regulated criteria pollutants will still be less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).
- (b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

The federal rules applicable to the existing emission units at this source will not change as a result of this revision.

State Rule Applicability Determination

The state rules applicable to the existing emission units at this source will not change as a result of this revision.

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-5.5 (Registrations)
 Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
 The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new/modified units is less than ten (10) tons per year for any

single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (f) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each modified unit is less than twenty-five (25) tons per year.
- (g) There are no other 326 IAC 8 Rules that are applicable to the facility.

In-Line Grinding Units (BMM1 through BMM9)

- (h) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the In-Line Grinding Units shall not exceed the pounds per hour limitations based on the process weight rates as listed in the table below:

Emission Unit ID	Process Weight Rate (ton/hr)	Allowable PM Emission Rate (lb/hr)
BMM1	0.75	3.38
BMM2	1.32	4.94
BMM3	0.75	3.38
BMM4	0.94	3.93
BMM5	0.99	4.07
BMM6	0.99	4.07
BMM7	0.88	3.76
BMM8	0.99	4.07
BMM9	0.83	3.62

The pound per hour limitations were calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations, the control devices are not needed to comply with this limit.

Shredder Room (Large Shredder)

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Large Shredder shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations, the control devices are not needed to comply with this limit.

Shredder Room (Small Grinder)

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Small Grinder shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations, no control device is needed to comply with this limit.

Proposed Changes

- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

- (1) The cold cleaner degreaser P001 has been replaced by a 30 gallon petroleum based washing unit.

P002 units # 1 through #9 have been re-named and their throughputs modified. These units were installed with in-line grinding units which were previously not identified.

The hand wipe cleaning process P003 has been removed from the source.

The throughput capacity for the scrap shredder/grinder P004 has been modified.

Registration 113-28670-00035 previously did not identify material handling and storage operations or natural combustion units. Therefore, these units are being included in this revision.

The emissions unit descriptions have been revised as follows:

- ~~(a) One (1) cold solvent degreaser, identified as P001, with a maximum capacity of 0.035 lbs/hr, and exhausting to general vents identified as GV1-GV10.~~
- ~~(b) Six (6) blow molding units, identified as P002(unit#1-unit#6), each with a maximum capacity of 2006.5 lbs/hr, using a dry scrubber as a control, and exhausting to stack S-1.~~
- ~~(c) Three (3) blow molding units, identified as P002(unit#7-unit#9), each with a maximum capacity of 2006.5 lbs/hr, and exhausting to general vents identified as GV1-GV10.~~
- ~~(d) One (1) hand wipe cleaning process, identified as P003, with a maximum capacity of 0.193 lbs/hr of lacquer thinner and 0.02 lbs/hr of methylene chloride, and exhausting to general vents identified as GV1-GV10.~~
- ~~(e) One (1) scrap shredder/grinder with integral cyclone, identified as P004, with a maximum capacity of 7109.0 lbs/hr, using a dust bag collector as a control, and exhausting to general vents identified as GV1-GV10.~~
- (a) One (1) Blow Molding Operation, identified as BMM, constructed prior to 1999, consisting of:**
 - (1) One (1) Blow Molding Line, identified as BMM1, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (2) One (1) Blow Molding Line, identified as BMM2, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 2,646 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (3) One (1) Blow Molding Line, identified as BMM3, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,499 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (4) One (1) Blow Molding Line, identified as BMM4, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,874 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (5) One (1) Blow Molding Line, identified as BMM5, consisting of a blow molding machine, and an in-line grinder which is shared with BMM6, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (6) One (1) Blow Molding Line, identified as BMM6, consisting of a blow molding machine, and in-line grinder which is shared with BMM5, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**

- (7) **One (1) Blow Molding Line, identified as BMM7, consisting of a blow molding machine, and in-line grinder which is shared with BMM8, with a maximum throughput capacity of 1,764 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (8) **One (1) Blow Molding Line, identified as BMM8, consisting of a blow molding machine and in-line grinder which is shared with BMM7, with a maximum throughput capacity of 1,984 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (9) **One (1) Blow Molding Line, identified as BMM9, replaced in 2009, consisting of a blow molding machine and two (2) in-line grinders, with a maximum throughput capacity of 1,653 pounds per hour, using a cyclone and fabric filters in series as particulate control, and exhausting within the building.**
 - (b) **One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, with a maximum throughput capacity of 16,887pounds per hour, using a cyclone and fabric filters in series as particulate control, exhausting through general vents GV-1 through GV-10.**
 - (c) **One (1) 30-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.**
 - (d) **Material handling and storage operations, consisting of five (5) silos, with a combined maximum throughput capacity 16,887 pounds per hour.**
 - (e) **Natural gas-fired space heaters with heat input equal to or less than ten million (10,000,000) British thermal units per hour (Btu/hr).**
- (2) The 326 IAC 6-3-2 emissions limitations have been revised as follows:

~~Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:~~

$$E = 4.10 P^{0.67} \text{ where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}$$

$$E = 4.10(17772.75/2000)^{0.67} = 17.72 \text{ lbs/hr}$$

~~So allowable emissions for this facility are 17.72 lb/hr.~~

~~The plastic tanks manufacturing facility complies with this rule.~~

Pursuant to 326 IAC 6-3-2, the source shall comply with the following limitations:

- (a) **Particulate matter (PM) from the In-Line Grinding Units shall not exceed the pounds per hour limitations based on the process weight rates as listed in the table below:**

Emission Unit ID	Process Weight Rate	Allowable PM Emission Rate
------------------	---------------------	----------------------------

	(ton/hr)	(lb/hr)
BMM1	0.75	3.38
BMM2	1.32	4.94
BMM3	0.75	3.38
BMM4	0.94	3.93
BMM5	0.99	4.07
BMM6	0.99	4.07
BMM7	0.88	3.76
BMM8	0.99	4.07
BMM9	0.83	3.62

- (b) Particulate matter (PM) from the Large Shredder shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour.
- (c) Particulate matter (PM) from the Small Grinder shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour.
- (d) Particulate matter (PM) from the material handling and storage operations shall not exceed 17.12 pounds per hour when operating at a process weight rate of 8.44 tons per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations, no control devices are needed to comply with these limits.

- (3) The registration has been revised to include 326 IAC 8-5-3 for the one (1) 30-gallon petroleum based parts washing unit identified as Cold Cleaner:

Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.**
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):**
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.**
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.**
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.**

Pursuant to 326 IAC 8-3-5(b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:

- (1) Close the cover whenever articles are not being handled in the degreaser.**
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.**
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.**
- (b) IDEM has updated the Registration Model since the issuance of Registration 113-10985-00035, issued August 10, 1999. Therefore the format of the Registration has been updated to coincide with IDEM's current permitting model.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on November 12, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed Registration Revision No. 113-28670-00035. The staff recommends to the Commissioner that this Registration Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jason R. Krawczyk at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 232-8427 or toll free at 1-800-451-6027 extension 2-8427.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

SUMMARY OF EMISSIONS

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

Uncontrolled Emissions (Tons/Yr)							
Pollutant	Nat. Gas Combustion	Blow Molding Lines	In-Line Grinding Units	Shredder Room	Cold Cleaner	Storage & Handling	Total
PM	0.02	1.97	5.60	0.52	-	7.40	15.50
PM10	0.08	1.97	5.60	0.52	-	3.70	11.87
PM2.5	0.08	1.97	5.60	0.52	-	3.70	11.87
VOC	0.06	9.48	-	-	0.59	-	10.14
NOx	1.11	-	-	-	-	-	1.11
SO2	0.01	-	-	-	-	-	0.01
CO	0.93	-	-	-	-	-	0.93
Single HAP (Hexane)	0.02	-	-	-	-	-	0.02
Combined HAPs	0.02	0.01	-	-	-	-	0.04

**Appendix A: Emissions Calculations
Miscellaneous Natural Gas Combustion**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Pit ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

Heat Input Capacity <u>MMBtu/hr</u> 2.54 2.54	Potential Throughput <u>MMCF/yr</u> 22.25 22.25	Emission Unit <u>ID</u> Space Heaters (23)
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Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.02	0.08	0.01	1.11	0.06	0.93

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology:

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 3 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
Miscellaneous Natural Gas Combustion
HAP Emissions**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Pit ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	2.336E-05	1.335E-05	8.344E-04	2.003E-02	3.783E-05

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	5.563E-06	1.224E-05	1.558E-05	4.228E-06	2.336E-05

Methodology is the same as page 2.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
VOC and Particulate Emissions
From Blow Molding Operation**

**Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009**

Emission Unit	Max. Throughput (lbs/hr)	VOC			PM/PM10/PM2.5			326 IAC 6-3-2(e)		
		Emission Factor (lb/lb)	PTE (lbs/hr)	PTE of VOC (tons/yr)	Emission Factor (lb/lb)	PTE (lbs/hr)	PTE (tons/yr)	Process Weight Rate (tons/hr)	Allowable Emissions (lbs/hr)	Allowable Emissions (tons/yr)
BMM1	1499.0	1.28E-04	0.19	0.84	2.66E-05	0.04	0.17	0.75	3.38	14.80
BMM2	2646.0	1.28E-04	0.34	1.49	2.66E-05	0.07	0.31	1.32	4.95	21.66
BMM3	1499.0	1.28E-04	0.19	0.84	2.66E-05	0.04	0.17	0.75	3.38	14.80
BMM4	1874.0	1.28E-04	0.24	1.05	2.66E-05	0.05	0.22	0.94	3.93	17.19
BMM5	1984.0	1.28E-04	0.25	1.11	2.66E-05	0.05	0.23	0.99	4.08	17.86
BMM6	1984.0	1.28E-04	0.25	1.11	2.66E-05	0.05	0.23	0.99	4.08	17.86
BMM7	1764.0	1.28E-04	0.23	0.99	2.66E-05	0.05	0.21	0.88	3.77	16.51
BMM8	1984.0	1.28E-04	0.25	1.11	2.66E-05	0.05	0.23	0.99	4.08	17.86
BMM9	1653.0	1.28E-04	0.21	0.93	2.66E-05	0.04	0.19	0.83	3.61	15.81
16,887		Potential to Emit: 9.48			1.97					

Notes:

VOC emission factors derived from "Development of Emission Factors for Polyethylene Processing", Journal of Air & Waste Management Association, Volum 46, pages 569 - 580, June 1996
 PM emission factors derived from " Development of Emission Factors for EVA & EMA Copolymer Processing", Journal of Air & Waste Management Association, Volume 47, pages 1111 - 1118, October 1997
 Worst case VOC emission factor based on 100% EVOH copolymer.
 Worst case PM emission factor based on 100% HDPE polyethylene.
 Assume PM = PM10 = PM2.5

Methodology:

Emission Rate (lbs/hr) = Maximum Throughput (lb/hr) * Emission Factor (lb/lb)
 Emission Rate (tons/yr) = Emission Rate (lbs/hr) * 8,760 hours/yr * (1 ton /2,000 lbs)
 Allowable Emissions = 4.10(Process Weight Rate)^0.67

**Appendix A: Emission Calculations
HAP Emissions
From Blow Molding Operation**

Company Name: Kautex Textron
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

Emission Unit	Max. Throughput (lbs/hr)	Emission Factors (lb/lb)					HAP Emissions (tons/yr)				
		Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid
BMM1	1499.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	5.25E-04	1.31E-04	3.28E-04	1.31E-04	1.31E-04
BMM2	2646.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	9.27E-04	2.32E-04	5.79E-04	2.32E-04	2.32E-04
BMM3	1499.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	5.25E-04	1.31E-04	3.28E-04	1.31E-04	1.31E-04
BMM4	1874.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	6.57E-04	1.64E-04	4.10E-04	1.64E-04	1.64E-04
BMM5	1984.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	6.95E-04	1.74E-04	4.34E-04	1.74E-04	1.74E-04
BMM6	1984.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	6.95E-04	1.74E-04	4.34E-04	1.74E-04	1.74E-04
BMM7	1764.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	6.18E-04	1.55E-04	3.86E-04	1.55E-04	1.55E-04
BMM8	1984.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	6.95E-04	1.74E-04	4.34E-04	1.74E-04	1.74E-04
BMM9	1653.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	5.79E-04	1.45E-04	3.62E-04	1.45E-04	1.45E-04
Potential to Emit:							0.006	0.001	0.004	0.001	0.001

Notes:

HDPE Plastic HAP emission factors derived from "Development of Emission Factors for Polyethylene Processing", Journal of Air & Waste Management Association, Volum 46, pages 569 - 580, June 1996
 EVOH Plastic HAP emission factors derived from " Development of Emission Factors for EVA & EMA Copolymer Processing", Journal of Air & Waste Management Association, Volume 47, pages 1111 - 1118, October 1997
 Worst case HAP emission factor based on 100% usage of whatever raw material (HDPE or EVOH) that has the largest emission factor for that individual HAP component.

Methodology:

Emission Rate (tons/yr) = Maximum Throughput (lb/hr) * Emission Factor (lb/lb) * 8,760 hrs * (1 ton / 2,000 lbs)

**Appendix A: Emission Calculations
Particulate Emissions
From Blow Molding In-Line Grinders**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

Emission Unit	Max. Throughput (lbs/hr)	Weight % Scrap	PM/PM10/PM2.5		
			Emission Factor (lb/ton)	PTE (lbs/hr)	PTE (tons/yr)
BMM1	1499.0	40%	0.35	0.10	0.46
BMM2	2646.0	40%	0.35	0.19	0.81
BMM3	1499.0	35%	0.35	0.09	0.40
BMM4	1874.0	40%	0.35	0.13	0.57
BMM5	1984.0	35%	0.35	0.12	0.53
BMM6	1984.0	40%	0.35	0.14	0.61
BMM7	1764.0	40%	0.35	0.12	0.54
BMM8	1984.0	60%	0.35	0.21	0.91
BMM9	1653.0	60%	0.35	0.17	0.76

Potential to Emit: 5.60

Notes:

Weight % scrap values are based upon estimates of the maximum amount of scrap plastic reprocessed on each blow molding production line provided. No emission factor exists for plastic grinding within AP-42 or UESPA FIRE version 6.25. The PM emission factor being used is from USEPA Fire version 6.23 for Log Sawing (SCC 3-07-008-02). Assume PM = PM10 = PM2.5.

Methodology:

Emission Rate (lbs/hr) = Maximum Throughput (lb/hr) * Weight % Scrap * Emission Factor (lb/ton) * (1 ton / 2,000 lbs)
Emission Rate (tons/yr) = Emission Rate (lbs/hr) * 8,760 hours/yr * (1 ton / 2,000 lbs)

**Appendix A: Emission Calculations
Particulate Emissions
From Shredder Room**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

Emission Unit	Max. Throughput (lbs/hr)	Weight % Scrap	PM/PM10/PM2.5		
			Emission Factor (lb/ton)	PTE (lbs/hr)	PTE (tons/yr)
Large Shredder	16887	2%	0.35	0.06	0.26
Small Grinder	16887	2%	0.35	0.06	0.26
Potential to Emit:					0.52

Notes:

Finished plastic tanks from the production lines that don't pass quality control tests are considered "scrap" and are sent to the shredder room for
Weight % scrap value is based upon facility estimates of scrap plastic tanks processed through the Shredder Room.
No emission factor exists for plastic shredding or grinding within AP-42 or UESPA FIRE version 6.25.
The PM emission factor being used is from USEPA Fire version 6.23 for Log Sawing (SCC 3-07-008-02)
Assume PM = PM10 = PM2.5

Methodology:

Emission Rate (lbs/hr) = Maximum Throughput (lb/hr) * Weight % Scrap * Emission Factor (lb/ton) * (1 ton / 2,000 lbs)
Emission Rate (tons/yr) = Emission Rate (lbs/hr) * 8,760 hours/yr * (1 ton /2,000 lbs)

**Appendix A: Emission Calculations
VOC Emissions
From Cold Cleaners**

**Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009**

One (1) Cold Cleaning Degreasing Operation

Material	Process	Density (lb/gal)	Annual Usage (gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non Volatiles (Solids)	Gal of Mat (gal/day)	Potential VOC (lb/hr)	Potential VOC (lb/day)	Potential VOC (tons/yr)
Crystal Clean Premium 142+ Mineral Spirits	Degreaser	8.17	145	100.00%	0.00%	100.00%	0.00%	0.00%	0.40	0.14	3.25	0.59

Methodology:

Potential VOC (lb/hr) = Density (lb/gal) * Annual Usage (gal) / 8760 hrs/yr
 Potential VOC (lb/day) = Potential VOC (lb/hr) * 24
 Potential VOC (tons/yr) = Density (lb/gal) * Annual Usage (gal) / 2000lbs

**Appendix A: Emission Calculations
Storage and Handling**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Permit Number: 113-28670-00035
Plt ID: 113-00035
Reviewer: Jason R. Krawczyk
Date: November 19, 2009

Facility	Capacity (lbs/hr)	PM Emission Factor lbs/ton	PM10 Emission Factor lbs/ton	Potential to emit PM lbs/hr	Potential to emit PM tons/yr	Potential to emit PM10 / PM2.5 lbs/hr	Potential to emit PM10 / PM2.5 tons/yr
Silos 1- 5 / Header Tube Load In	16887.00	0.2	0.1	1.69	7.40	0.84	3.70

326 IAC 6-2-3(e) Allowable PM Emission Rate lbs/hr 17.12
--

Notes:

Capacity is based on the combined maximum throughput of BMM1 through BMM9.
 The PM and PM10 emission factors used in silos are from the FIRE database (SCC 3-01-018-11).
 Assume PM10 = PM2.5

Methodology:

Potential to emit (lbs/hr) = Emission factor (lbs/ton) * Capacity (lbs/hr) * (1 ton / 2000 pounds)
 Potential to emit (tons/yr) = Potential to emit of (lbs/hr) * 8760 hours * (1 ton / 2000 lbs)
 326 IAC 6-2-3(e) Allowable = 4.10(Process Weight Rate)^0.67



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Teresa Mansfield
Kautex Textron, North America
210 Green Dr
Avilla, IN 46710

DATE: December 18, 2009

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Registration Revision
113-28670-00035

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Danie Ross (VPO)
Joseph VanCamp (Cornerstone Environmental, Health & Safety, Inc)
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	MIDENNEY 12/18/2009 Kautex Textron, North America 113-28670-00035 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Teresa Mansfield Kautex Textron, North America 210 Green Dr Avilla IN 46710 (Source CAATS) via confirmed delivery										
2		Danie Ross VPO Kautex Textron, North America 210 Green Dr Avilla IN 46710 (RO CAATS)										
3		Noble County Board of Commissioners 101 North Orange Street Albion IN 46701 (Local Official)										
4		Noble County Health Department 2090 N. State Rd 9, Suite C Albion IN 46701-9566 (Health Department)										
5		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)										
6		Frederick & Iva Moore 6019 W 650 N Ligonier IN 46767 (Affected Party)										
7		Mr. Joseph VanCamp Cornerstone Environmental, Health & Safety, Inc. 8907 Gerig Road Leo IN 45765-9679 (Consultant)										
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