



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: September 18, 2013

RE: Kautex Textron, North America / 113-33583-00035

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

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 from 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
FNPER-AM.dot 6/13/2013



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Sherry Martz
Kautex Textron, North America
210 Green Drive
Avilla, IN 46710

September 18, 2013

Re: 113-33583-00035
First Administrative Amendment to
R113-10985-00035

Dear Ms. Martz:

Kautex Textron, North America was issued a Registration No. R113-10985-00035 on for a stationary plastic fuel tanks manufacturer for automobiles located at 210 Green Drive, Avilla, Indiana 46710. On August 27, 2013, the Office of Air Quality (OAQ) received an application from the source requesting to make the following changes:

- (a) Removal of an existing blow molding line (BMM9);
- (b) Change in the maximum process throughput capacity of each blow molding machine to reflect actual operating conditions (reduction in the maximum capacity);
- (c) Correction in the number of in-line grinders equipped on the blow molding machines from two to at most one on each blow molding line and clarification on the shared in-line grinders;
- (d) Change in the scrap rate for the in-line grinder to a maximum of 4% by weight, which previously was 35 to 60% by weight scrap rate, to reflect actual operating conditions;
- (e) Addition of a storage silo at the source;
- (f) Correction in the size of the cold cleaner parts washer from 30 gallons to 20 gallons
- (f) Inclusion of an additional cold cleaner that contains no VOC or HAPs;

This is in addition to the existing cold cleaner that has minimal VOC/HAP emissions.

- (g) Inclusion of welding operations in the registration and emissions from these in the source-wide potential to emit.

Pursuant to 326 IAC 2-5.5-6(d)(2)(B), this change to the registration is considered an administrative amendment because the registration is amended to indicate changes in descriptive information concerning the source or emission units

The uncontrolled/unlimited potential to emit of the entire source after the removal of the blow molding line (BMM9) and recalculation of potential emissions will continue to be within the threshold levels specified in 326 IAC 2-5.5-1(b)(1)(Registration). See Appendix A for the revised limited PTE of the source after the removal of the existing emission unit.

PTE of the Entire Source After Issuance of the Registration Administrative Amendment

The table below summarizes the potential to emit of the entire source after the issuance of this administrative amendment, reflecting all limits, of the emission units, using **bold** and ~~strikeouts~~ to show the changes:

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM ₁₀ *	PM _{2.5}	SO ₂	NO _x	VOC	CO	GHGs as CO _{2e} **	Total HAPs	Worst Single HAP
Blow Molding Lines	4.97 1.47	4.97 1.47	4.97 1.47	-	-	9.48 7.07	-	-	0.01	negl. 0.004 - Formaldehyde
In-Line Grinding Units	5.60 0.39	5.60 0.39	5.60 0.39	-	-	-	-	-	-	-
Shredder Room	0.52 0.39	0.52 0.39	0.52 0.39	-	-	-	-	-	-	-
Cold Cleaner	-	-	-	-	-	0.59 0.48	-	-	0.0005	0.0005 - Toluene
Storage and Handling	7.40 5.51	3.70 2.76	3.70 2.76	-	-	-	-	-	-	-
Welding	0.21	0.21	-	-	-	-	-	-	0.0006	0.0005 - Manganese
Natural Gas Combustion	0.02	0.08	0.08	0.01	4.11 1.09	0.06	0.93	1,317	0.02	0.02 Hexane
Total PTE of Entire Source	15.50 7.99	11.87 5.29	11.87 5.29	0.01	4.11 1.09	10.14 7.61	0.93	1,317	0.04 0.03	0.02 Hexane
Exemptions Levels	5	5	5	10	10	10	25	100,000	25	10
Registration Levels	25	25	25	25	25	25	100	100,000	25	10
<p>*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".</p> <p>**The 100,000 CO_{2e} threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.</p>										

The table below summarizes the potential to emit of the entire source after issuance of this administrative amendment, 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 with the Revision (tons/year)									
	PM	PM ₁₀ *	PM _{2.5}	SO ₂	NO _x	VOC	CO	GHGs as CO _{2e} **	Total HAPs	Worst Single HAP
Blow Molding Lines	1.47	1.47	1.47	-	-	7.07	-	-	0.01	0.004 - Formaldehyde
In-Line Grinding Units	0.39	0.39	0.39	-	-	-	-	-	-	-
Shredder Room	0.39	0.39	0.39	-	-	-	-	-	-	-
Cold Cleaner	-	-	-	-	-	0.48	-	-	0.0005	0.0005 - Toluene
Storage and Handling	5.51	2.76	2.76	-	-	-	-	-	-	-
Welding	0.21	0.21	-	-	-	-	-	-	0.0006	0.0005 - Manganese
Natural Gas Combustion	0.02	0.08	0.08	0.01	1.09	0.06	0.93	1,317	0.02	0.02 Hexane
Total PTE of Entire Source	7.99	5.29	5.29	0.01	1.09	7.61	0.93	1,317	0.03	0.02 Hexane
Exemptions Levels	5	5	5	10	10	10	25	100,000	25	10
Registration Levels	25	25	25	25	25	25	100	100,000	25	10
<p>*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".</p> <p>**The 100,000 CO_{2e} threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.</p>										

Pursuant to 326 IAC 2-5.5-6, the registration is hereby amended as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

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 **eight (8) Blow Molding Lines, each with one (1) blow molding machine with the following maximum capacities, and using six (6) in-line grinders, as follows :**

Blow Molding Line ID	Maximum capacity (pounds per hour)	In-line grinder
BMM1	1,367	Dedicated
BMM2	2,646	Dedicated
BMM3	882	Shared
BMM4	1,235	
BMM5	1,411	Shared
BMM6	1,543	
BMM7	1,852	Dedicated
BMM8	1,653	Dedicated

- ~~(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.~~

Each Blow Molding Line uses a cyclone and fabric filters in series as particulate control and exhausts within the building.

Note 1: Each blowing molding line processes either HDPE or EVOH plastic.

Note 2: Each in-line grinder has a maximum scrap rate maximum of 4% by weight of the corresponding blow molding line.

Note 3: Each blow molding line is equipped with a helium leak detection unit, which does not result in emissions of any criteria pollutants.

- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, **each** with a maximum throughput capacity of ~~46,887~~**12,588** 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) ~~3020~~-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.

- (d) **Hand-held spray cleaning, with a maximum throughput capacity of 55 gallons per year, using cleaner that contains no VOC or HAPs.**
- (de) Material handling and storage operations, consisting of ~~five~~ **six (56)** silos, with a combined maximum throughput capacity ~~46,887~~ **12,588** pounds per hour.
- (f) **Welding operations consisting of two (2) metal inert gas (MIG) welding stations, each with a maximum capacity of 1.00 pound per day, and one (1) stick welding station with a maximum capacity of 0.10 pound per day.**
- (eg) **Twenty-three (23)** natural gas-fired space heaters with a **total** heat input **capacity of 2.54** ~~equal to or less than ten million (10,000,000)~~ British thermal units per hour (Btu/hr).

Additional Changes

Upon further review, IDEM, OAQ has decided to make additional amendments to the registration as described below. The registration has been amended as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

1. IDEM, OAQ has decided to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address. Section A.1 of the registration and the reporting forms has been revised as follows:

~~Mailing Address: 210 Green Drive, Avilla, IN 46710~~

2. Emission limits pertaining to BMM9 have been removed from Section D.1. In addition, the eight (8) existing blow molding lines (BMM 1 through 8) and Shredder Room (Large Shredder and Small Grinder) are exempt from 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) pursuant to 326 IAC 6-3-1(a)(14) because the potential to emit particulate matter of each blow molding line and the Shredder Room is each less than 0.551 pounds per hour. However, the potential emissions were calculated using alternative emission factors. Therefore, Conditions D.1.2 has been added requiring the use of the cyclones and fabric filters to control particulate emissions from these units at all times to ensure that particulate emissions are below the 0.551 pounds per hour exception level.

The limits for the eight (8) existing blow molding lines (BMM 1 through 8) now includes particulate emissions from the entire line, not just the in-line grinder, because the line is consider one process.

The particulate emission limit for the material handling and storage operations to comply with 326 IAC 6-3-2 has been changed based on the updated process weight rate.

Emission units that do not have any applicable conditions under Section D.1 have been removed from the Facility Description box of section D.1.

3. 326 IAC 8-3 (Organic Solvent Degreasing Operations) rules have been modified and 326 IAC 8-3-5 has been repealed by the Air Pollution Control Division. The part washing unit is now subject to 326 IAC 8-3-2(a) and (b) because it is a cold cleaner degreaser without a remote solvent reservoir constructed after January 1, 1990. Condition D.2.1 has been modified accordingly.

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 eight (8) Blow Molding Lines, each with one (1) blow molding machine with the following maximum capacities, and using six (6) in-line grinders, as follows :

Blow Molding Line ID	Maximum capacity (pounds per hour)	In-line grinder
BMM1	1,367	Dedicated
BMM2	2,646	Dedicated
BMM3	882	Shared
BMM4	1,235	
BMM5	1,411	Shared
BMM6	1,543	
BMM7	1,852	Dedicated
BMM8	1,653	Dedicated

- (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.~~

Each Blow Molding Line uses a cyclone and fabric filters in series as particulate control and exhausts within the building.

Note 1: Each blowing molding line processes either HDPE or EVOH plastic.

Note 2: Each in-line grinder has a maximum scrap rate maximum of 4% by weight of the corresponding blow molding line.

Note 3: Each blow molding line is equipped with a helium leak detection unit, which does not result in emissions of any criteria pollutants.

- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, **each** with a maximum throughput capacity of ~~46,887~~**12,588** 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.~~
- (de) Material handling and storage operations, consisting of ~~five (5)~~ **six (6)** silos, with a combined maximum throughput capacity ~~46,887~~**12,588** 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]

In order to render 326 IAC 6-3-2 not applicable to the following units, the Registrant shall comply with the following limitations:

- (a) Particulate matter (PM) from the **blow molding machines** and 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 0.68	3.380 0.551
BMM2	1.32 1.32	4.940 0.551
BMM3	0.75 0.44	3.380 0.551
BMM4	0.94 0.62	3.930 0.551
BMM5	0.99 0.71	4.070 0.551
BMM6	0.99 0.77	4.070 0.551
BMM7	0.88 0.93	3.760 0.551
BMM8	0.99 0.83	4.070 0.551
BMM9	0.83	3.62

- (b) Particulate matter (PM) from the Large Shredder shall not exceed ~~47.42~~ **0.551** pounds per hour when operating at a process weight rate of ~~8.446~~**2.9** tons per hour.
- (c) Particulate matter (PM) from the Small Grinder shall not exceed ~~47.42~~ **0.551** pounds per hour when operating at a process weight rate of ~~8.446~~**2.9** tons per hour.

Pursuant to 326 IAC 6-3-2, the Registrant shall comply with the following limitation:

- (d) Particulate matter (PM) from the material handling and storage operations shall not exceed ~~47.12-14.1~~ **14.1** pounds per hour when operating at a process weight rate of ~~8.446.29~~ 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:

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

Compliance Determination Requirements

D.1.2 Particulate Control

In order to comply with Condition D.2.1, the cyclones and fabric filters shall be in operation at all times the.

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.~~

D.2.1 Organic Solvent Degreasing Operations [326 IAC 8-3-2]

- (a) Pursuant to 326 IAC 8-3-2(a), the Registrant shall ensure the following control equipment and operating requirements are met:**
 - (1) Equip the degreaser with a cover.**
 - (2) Equip the degreaser with a device for draining cleaned parts.**
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.**
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.**

- (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) Pursuant to 326 IAC 8-3-2(b), the Registrant shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) A refrigerated chiller.
 - (D) Carbon adsorption.
 - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
 - (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
 - (3) If used, solvent spray:
 - (A) must be a solid, fluid stream; and
 - (B) shall be applied at a pressure that does not cause excessive splashing.

...

Greenhouse Gases

Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO₂ equivalent emissions (CO₂e). Therefore, CO₂e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO₂e per year (see Appendix A for the calculations). This did not require any changes to the registration.

The source shall continue to operate according to 326 IAC 2-5.5 (Registrations). Please find enclosed the amended registration and Appendix A. 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 Ryan Graunke, at (800) 451-6027, press 0 and ask for Ryan Graunke or extension 4-5374, or dial (317) 234-5374.

Sincerely,


Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/REG

Attachment: Revised Registration and Appendix A

cc: File - Noble County
Noble County Health Department
Compliance and Enforcement Branch



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

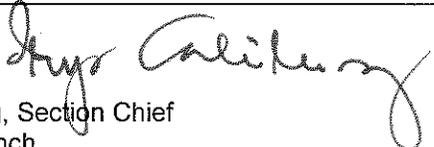
REGISTRATION OFFICE OF AIR QUALITY

**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

First Registration Revision No. 113-28670-00035, issued on December 18, 2009

Administrative Amendment No. 113-33583-00035	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: September 18, 2013

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
General Source Phone Number: (260) 897-8104
SIC Code: 3089 (Plastic Products, NEC)
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 eight (8) Blow Molding Lines, each with one (1) blow molding machine with the following maximum capacities, and using six (6) in-line grinders, as follows:

Blow Molding Line ID	Maximum capacity (pounds per hour)	In-line grinder
BMM1	1,367	Dedicated
BMM2	2,646	Dedicated
BMM3	882	Shared
BMM4	1,235	
BMM5	1,411	Shared
BMM6	1,543	
BMM7	1,852	Dedicated
BMM8	1,653	Dedicated

Each Blow Molding Line uses a cyclone and fabric filters in series as particulate control and exhausts within the building.

Note 1: Each blowing molding line processes either HDPE or EVOH plastic.

Note 2: Each in-line grinder has a maximum scrap rate maximum of 4% by weight of the corresponding blow molding line.

Note 3: Each blow molding line is equipped with a helium leak detection unit, which does not result in emissions of any criteria pollutants.

- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, each with a maximum throughput capacity of 12,588 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) 20-gallon petroleum based parts washing unit, identified as Cold Cleaner, with a maximum throughput capacity of 145 gallons per year.

- (d) Hand-held spray cleaning, with a maximum throughput capacity of 55 gallons per year, using cleaner that contains no VOC or HAPs.
- (e) Material handling and storage operations, consisting of six (6) silos, with a combined maximum throughput capacity 12,588 pounds per hour.
- (f) Welding operations consisting of two (2) metal inert gas (MIG) welding stations, each with a maximum capacity of 1.00 pound per day, and one (1) stick welding station with a maximum capacity of 0.10 pound per day.
- (g) Twenty-three (23) natural gas-fired space heaters with a total heat input capacity of 2.54 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 eight (8) Blow Molding Lines, each with one (1) blow molding machine with the following maximum capacities, and using six (6) in-line grinders, as follows :

Blow Molding Line ID	Maximum capacity (pounds per hour)	In-line grinder
BMM1	1,367	Dedicated
BMM2	2,646	Dedicated
BMM3	882	Shared
BMM4	1,235	
BMM5	1,411	Shared
BMM6	1,543	
BMM7	1,852	Dedicated
BMM8	1,653	Dedicated

Each Blow Molding Line uses a cyclone and fabric filters in series as particulate control and exhausts within the building.

Note 1: Each blowing molding line processes either HDPE or EVOH plastic.

Note 2: Each in-line grinder has a maximum scrap rate maximum of 4% by weight of the corresponding blow molding line.

Note 3: Each blow molding line is equipped with a helium leak detection unit, which does not result in emissions of any criteria pollutants.

- (b) One (1) shredding and grinding operation, identified as Shredder Room, constructed prior to 1999, consisting of one large shredder and one small grinder, each with a maximum throughput capacity of 12,588 pounds per hour, using a cyclone and fabric filters in series as particulate control, exhausting through general vents GV-1 through GV-10.
- (e) Material handling and storage operations, consisting of six (6) silos, with a combined maximum throughput capacity 12,588 pounds per hour.

(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]

In order to render 326 IAC 6-3-2 not applicable to the following units, the Registrant shall comply with the following limitations:

- (a) Particulate matter (PM) from the blow molding machines and 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	0.68	0.551
BMM2	1.32	0.551
BMM3	0.44	0.551
BMM4	0.62	0.551
BMM5	0.71	0.551
BMM6	0.77	0.551
BMM7	0.93	0.551
BMM8	0.83	0.551

- (b) Particulate matter (PM) from the Large Shredder shall not exceed 0.551 pounds per hour when operating at a process weight rate of 6.29 tons per hour.
- (c) Particulate matter (PM) from the Small Grinder shall not exceed 0.551 pounds per hour when operating at a process weight rate of 6.29 tons per hour.

Pursuant to 326 IAC 6-3-2, the Registrant shall comply with the following limitation:

- (d) Particulate matter (PM) from the material handling and storage operations shall not exceed 14.1 pounds per hour when operating at a process weight rate of 6.29 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:

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

Compliance Determination Requirements

D.1.2 Particulate Control

In order to comply with Condition D.2.1, the cyclones and fabric filters shall be in operation at all times the.

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) 20-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 Organic Solvent Degreasing Operations [326 IAC 8-3-2]

- (a) Pursuant to 326 IAC 8-3-2(a), the Registrant shall ensure the following control equipment and operating requirements are met:

- (1) Equip the degreaser with a cover.
- (2) Equip the degreaser with a device for draining cleaned parts.
- (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
- (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
- (6) Store waste solvent only in closed containers.
- (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

- (b) Pursuant to 326 IAC 8-3-2(b), the Registrant shall ensure the following additional control equipment and operating requirements are met:

- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) A refrigerated chiller.
 - (D) Carbon adsorption.
 - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray:
 - (A) must be a solid, fluid stream; and
 - (B) shall be applied at a pressure that does not cause excessive splashing.

**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:

still in operation.

I hereby certify that Kautex Textron, North America is:

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:

**Appendix A: Emissions Calculations
Source Summary**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission Units	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	GHGs (as CO ₂ e)	Total HAPs	Worst single HAP
Blow molding machines	1.47	1.47	1.47	-	-	7.07	-	-	0.010	0.004 Formaldehyde
In-line grinding units	0.39	0.39	0.39	-	-	-	-	-	-	-
Shredder room	0.39	0.39	0.39	-	-	-	-	-	-	-
Degreasing	-	-	-	-	-	0.48	-	-	0.0005	0.0005 Toluene
Storage silos	5.51	2.76	2.76	-	-	-	-	-	-	-
Welding	0.21	0.21	0.21	-	-	-	-	-	0.0006	0.0005 Mn
Natural Gas Combustion	0.02	0.08	0.08	0.01	1.09	0.06	0.92	1,317	0.02	0.02 Hexane
Total	7.99	5.29	5.29	0.01	1.09	7.61	0.92	1,317	0.032	0.020 Hexane

**Appendix A: Emissions Calculations
Blow molding machines (BMM1 through 8) - VOC and PM**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission unit	Max throughput (kg/hr)	Max throughput (lb/hr)	VOC Emission factor (lb/lb material)	PTE of VOC (lb/hr)	PTE of VOC (ton/yr)	PM Emission factor (lb/lb material)	PTE of PM (lb/hr)	PTE of PM (ton/yr)
BMM1	620	1,367	1.28E-04	0.18	0.77	2.66E-05	0.04	0.16
BMM2	1,200	2,646	1.28E-04	0.34	1.49	2.66E-05	0.07	0.31
BMM3	400	882	1.28E-04	0.11	0.50	2.66E-05	0.02	0.10
BMM4	560	1,235	1.28E-04	0.16	0.69	2.66E-05	0.03	0.14
BMM5	640	1,411	1.28E-04	0.18	0.79	2.66E-05	0.04	0.16
BMM6	700	1,543	1.28E-04	0.20	0.87	2.66E-05	0.04	0.18
BMM7	840	1,852	1.28E-04	0.24	1.04	2.66E-05	0.05	0.22
BMM8	750	1,653	1.28E-04	0.21	0.93	2.66E-05	0.04	0.19
Total:					7.07		Total:	1.47

Notes:

Maximum throughput values are provided by the source and are based upon the specifications of each blow molding machines. The machines process either HDPE or EVOH plastic.

Emission factors for HDPE are derived from:

"Development of Emission Factors for Polyethylene Processing" J. Air & Waste Manage. Assoc. Vol. 46, pgs. 569-580, June 1996.

Table 7, HDPE Blow Molding at 430°F melt temperature

Emission factors for EVOH are derived from

"Development of Emission Factors for EVA and EMA Copolymer Processing" J. Air & Waste Manage. Assoc. Vol. 47, pgs. 1111-1118, October 1997.

Table 6, EVA with 18% vinyl acetate

EVOH is worst case for VOC emissions

HDPE is worst case for PM emissions

All blow molding machines vent indoors

Assume PM = PM₁₀ = PM_{2.5}

Pursuant to 326 IAC 6-3-1(a)(14), the blow molding machines are exempt from 326 IAC 6-3-2 because the PTE of PM from each unit is less than 0.551 lb/hr.

Methodology:

Max throughput (lb/hr) = Max throughput (kg/hr) * 2.20462 lbs/kg

PTE (lb/hr) = Maximum throughput (lb/hr) * Emission Factor (lb/lb material)

PTE (ton/yr) = PTE (lb/hr) * 8,760 hrs/yr * 1 ton /2,000 lbs

**Appendix A: Emissions Calculations
Blow molding machines (BMM1 through 8) - HAPs**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission unit	Max throughput (kg/hr)	Max throughput (lb/hr)	HAPs Emission Factors (lb/lb material)						HAPs Emissions (tons/yr)				
			Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	
BMM1	620	1,366.9	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	4.79E-04	1.20E-04	2.99E-04	1.20E-04	1.20E-04	1.20E-04
BMM2	1,200	2,645.5	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	2.32E-04
BMM3	400	881.8	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	3.09E-04	7.72E-05	1.93E-04	7.72E-05	7.72E-05	7.72E-05
BMM4	560	1,234.6	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	4.33E-04	1.08E-04	2.70E-04	1.08E-04	1.08E-04	1.08E-04
BMM5	640	1,411.0	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	4.94E-04	1.24E-04	3.09E-04	1.24E-04	1.24E-04	1.24E-04
BMM6	700	1,543.2	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	5.41E-04	1.35E-04	3.38E-04	1.35E-04	1.35E-04	1.35E-04
BMM7	840	1,851.9	8.00E-08	2.00E-08	5.00E-08	2.00E-08	2.00E-08	6.49E-04	1.62E-04	4.06E-04	1.62E-04	1.62E-04	1.62E-04
BMM8	750	1,653.5	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	1.45E-04
			Total:				0.0044	0.0011	0.0028	0.0011	0.0011	0.0011	0.0105

Notes:

Maximum throughput values are provided by the source and are based upon the specifications of each blow molding machines. The machines process either HDPE or EVOH plastic.

Emission factors for HDPE are derived from:

"Development of Emission Factors for Polyethylene Processing" J. Air & Waste Manage. Assoc. Vol. 46, pgs. 569-580, June 1996.

Table 7, HDPE Blow Molding at 430°F melt temperature

Emission factors for EVOH are derived from

"Development of Emission Factors for EVA and EMA Copolymer Processing" J. Air & Waste Manage. Assoc. Vol. 47, pgs. 1111-1118, October 1997.

Table 6, EVA with 18% vinyl acetate

EVOH is worst case for formaldehyde emissions

HDPE is worst case for all other HAPs

Methodology:

Max throughput (lb/hr) = Max throughput (kg/hr) * 2.20462 lbs/kg

PTE (ton/yr) = Maximum throughput (lb/hr) * Emission Factor (lb/lb material) * 8,760 hrs/yr * 1 ton /2,000 lbs

**Appendix A: Emissions Calculations
In-line Grinders**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission unit	Max throughput (kg/hr)	Max throughput (lb/hr)	Weight % Scrap	PM Emission Factor (lb/ton scrap)	PTE of PM (lb/hr)	PTE of PM (ton/yr)
BMM1	620	1,366.9	4%	0.35	0.0096	0.042
BMM2	1,200	2,645.5	4%	0.35	0.0185	0.081
BMM3	400	881.8	4%	0.35	0.0062	0.027
BMM4	560	1,234.6	4%	0.35	0.0086	0.038
BMM5	640	1,411.0	4%	0.35	0.0099	0.043
BMM6	700	1,543.2	4%	0.35	0.0108	0.047
BMM7	840	1,851.9	4%	0.35	0.0130	0.057
BMM8	750	1,653.5	4%	0.35	0.0116	0.051
Total:						0.39

Notes:

There are a total of 6 in-line grinders. BMM1, 2, 7, and 8 each have a dedicated grinder, while there are 2 shared grinders for BMM3/4 and BMM5/6. Scrap flash material is generated from the in-line grinders on the individual blow molding machines. Maximum throughput values are provided by the source and are based upon the specifications of each blow molding machines. Weight % scrap values are based upon estimates of the maximum amount of scrap plastic reprocessed on each blow molding production line provided by the facility. No emission factor exists for plastic grinding within AP-42 or USEPA WebFIRE. As approved in Registration Revision #113-28670-0035, the emission factor is from USEPA Fire version 6.23 for Log Sawing (SCC 3-07-008-02). Assume PM = PM₁₀ = PM_{2.5}

Methodology:

Max throughput (lb/hr) = Max throughput (kg/hr) * 2.20462 lbs/kg
 PTE of PM (lb/hr) = Maximum throughput (lb/hr) * 1 ton/2,000 lbs * Weight % Scrap * Emission Factor (lb/ton)
 PTE of PM (ton/yr) = PTE of PM (lb/hr) * 8,760 hrs/yr * 1 ton /2,000 lbs

**Appendix A: Emissions Calculations
Shredder Room**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission unit	Max throughput (lb/hr)	Weight % Scrap	PM Emission Factor (lb/ton scrap)	PTE of PM (lb/hr)	PTE of PM (ton/yr)
Large shredder	12,588	2%	0.35	0.0441	0.193
Small grinder	12,588	2%	0.35	0.0441	0.193
Total:					0.39

Notes:

Finished plastic tanks from the production lines that do not pass quality control tests are considered "scrap" and are sent to the shredder room for reclamation. Maximum throughput values are based upon the total combined maximum process throughputs of all 8 blow molding machines. Weight % scrap value is based upon facility estimates of scrap plastic tanks processed through the Shredder Room. These tanks represent off-spec material. No emission factor exists for plastic grinding within AP-42 or USEPA WebFIRE

As approved in Registration Revision #113-28670-0035, the emission factor is from USEPA Fire version 6.23 for Log Sawing (SCC 3-07-008-02). Assume PM = PM₁₀ = PM_{2.5}

Pursuant to 326 IAC 6-3-1(a)(14), the Shredder Room is exempt from 326 IAC 6-3-2 because the PTE of PM is less than 0.551 lb/hr.

Methodology:

PTE of PM (lb/hr) = Maximum throughput (lb/hr) * 1 ton/2,000 lbs * Weight % Scrap * Emission Factor (lb/ton)
 PTE of PM (ton/yr) = PTE of PM (lb/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs

**Appendix A: Emissions Calculations
Cleaning & Degreasing**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Material	Density (lb/gal)	Weight % VOC	Max usage (gal/yr)	PTE of VOC (ton/yr)	Weight % Toluene	PTE of Toluene (ton/yr)
Mirachem 500 Cleaner	8.31	0%	55	-	-	-
Crystal Clean Premium 142+ Mineral Spirits	6.67	100%	145	0.484	0.1%	0.0005

Notes:

Mirachem 500 Cleaner is received in 55-gal drums and is used in small spray bottles for general cleaning inside the plant.
 Crystal Clean Premium 142+ Mineral Spirits is an organic solvent used in a 20-gal parts washing tank.
 Maximum throughput are based upon conservative worst-case usage.
 Mirachem 500 Cleaner has no VOC/HAPs as provided in the MSDS.
 Crystal Clean Premium 142+ Mineral Spirits is 100% Aliphatic distillates (CAS No. 64742-47-8), which is 0.1% toluene by weight.

Methodology:

Density (lb/gal) = Specific gravity * Density of water (8.34 lb/gal)
 PTE of VOC (ton/yr) = Density (lb/gal) * Weight % VOC * Annual usage (gal/yr)

**Appendix A: Emissions Calculations
Storage Silos**

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission unit	Maximum throughput (lb/hr)	PM Emission factor (lb/ton material)	PM ₁₀ Emission factor (lb/ton material)	PTE of PM (lb/hr)	PTE of PM (ton/yr)	PTE of PM ₁₀ (lb/hr)	PTE of PM ₁₀ (ton/yr)
Silos 1 through 6	12,588	0.2	0.1	1.26	5.51	0.63	2.76

Notes:

Maximum throughput values are based upon the total combined maximum process throughputs of all 8 blow molding machines. As approved in Registration Revision #113-28670-0035, emission factors are from the USEPA FIRE database (SCC 3-01-018-11). Assume PM = PM₁₀ = PM_{2.5}

Methodology:

PTE (lb/hr) = Maximum throughput (lb/hr) * 1 ton/2,000 lbs * Emission Factor (lb/ton)
 PTE (ton/yr) = PTE of PM (lb/hr) * 8,760 hrs/yr * 1 ton /2,000 lbs

326 IAC 6-3-2 Compliance

Maximum throughput (lb/hr)	Process weight rate (ton/hr)	Allowable emissions (lb/hr)
12,588	6.29	14.1

Methodology:

Process weight rate (ton/hr) = Maximum throughput (lb/hr) * 1 ton/2000 lbs
 Allowable emission (lb/hr) = 4.10 * Process weight rate (ton/hr)^{0.67}, pursuant to 326 IAC 6-3-2(e)

Appendix A: Emissions Calculations
Welding

Company Name: Kaufex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Granke

Process	Number of stations	Max electrode usage per station (lb/day)	Emission Factors (lb pollutant/lb electrode)			PTE (lb/hr)			PTE (ton/yr)			
			PM	Mn	Cr	PM	Mn	Cr	PM	Mn	Cr	
Metal inert gas (MIG) welding	2.0	1.00	0.0241	0.000034	0.00001	0.048	0.00007	0.00002	0.211	0.00030	0.00009	
Stick welder	1.0	0.10	0.0055	0.0005	-	0.001	0.00005	-	0.002	0.00022	-	
Total:										0.214	0.0005	0.00009

Notes:

MIG welding includes all MIG units, projection welder, and seam welders
 Emission factors for MIG welding are from AP-42, Chapter 12.19, Tables 12.19-1 and 12.19-2 for gas metal arc welding with ER5154 electrode (SCC 3-09-052-26)
 Emission factors for stick welding are default values for carbon steel.
 $PM = PM_{10} = PM_{2.5}$
 Pursuant to 326 IAC 6-3-1(a)(14), the welding operation is exempt from 326 IAC 6-3-2 because the PTE of PM is less than 0.551 lb/hr.

Methodology:

PTE (lb/hr) = Number of stations * Max electrode usage (lb/hr) * Emission factor (lb pollutant/lb electrode)
 PTE (ton/yr) = PTE (lb/hr) * 8760 hr/yr * 1 ton/2000 lbs

Appendix A: Emissions Calculations
Natural Gas Combustion Only

Company Name: Kautex Textron, North America
Address City IN Zip: 210 Green Drive, Avilla, IN 46710
Administrative Amendment Number: 113-33583-00035
Registration Number: 113-10985-00035
Reviewer: Ryan Graunke

Emission unit	Total Heat Input Capacity (MMBtu/hr)	Total Potential Throughput (MMCF/yr)
Twenty-three (23) space heaters	2.54	21.8

Emission Factor (lb/MMCF) Potential Emission (tons/yr)	Pollutant					
	PM*	PM ₁₀ *	Direct PM _{2.5} *	SO ₂	NO _x	VOC
0.021	0.083	0.083	0.007	1.09	0.060	0.916

*PM emission factor is filterable PM only. PM₁₀ emission factor is filterable and condensable PM₁₀ combined. PM_{2.5} emission factor is filterable and condensable PM_{2.5} combined.

HAPs - Organics			
Emission Factor (lb/MMCF) Potential Emission (tons/yr)	Benzene	Dichlorobenzene	Formaldehyde
2.290E-05	2.1E-03	7.5E-02	1.8E+00
	1.309E-05	8.180E-04	1.963E-02
			3.708E-05

HAPs - Metals			
Emission Factor (lb/MMCF) Potential Emission (tons/yr)	Lead	Cadmium	Chromium
5.454E-06	1.1E-03	1.4E-03	3.8E-04
	1.200E-05	1.527E-05	4.145E-06
			2.290E-05
			Nickel
			2.1E-03
			2.290E-05
			Total HAPs: 2.058E-02

Greenhouse Gas		
Emission Factor (lb/MMCF) Potential Emission (tons/yr)	CO ₂	CH ₄
120,000	1,309	2.3
		0.0
		0.0
		1,309
		1,317
		N ₂ O
		2.2
		0.0
		0.0
		1,309
		1,317

Notes:
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

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

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Methodology:

Total Heat Input Capacity (MMBtu/hr) = Σ (Heat Input Capacity Each (MMBtu/hr/unit) * Number of Units)

Potential Throughput (MMCF/yr) = Heat Input Capacity Each (MMBtu/hr) * Number of Units * 8,760 hrs/yr * High Heat Value (1 MMCF/1,020 MMBtu)

Potential Emission (tons/yr) = Total Max Throughput (MMCF/yr) * Emission Factor (lb/MMCF) * 1 ton/2000 lbs

CO₂e (tons/yr) = CO₂ Potential Emission (tons/yr) * CO₂ GWP (1) + CH₄ Potential Emission (tons/yr) * CH₄ GWP (21) + N₂O Potential Emission (tons/yr) * N₂O GWP (310).



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Sherry Martz
Kautex Textron, North America
210 Green Dr
Avilla, IN 46710

DATE: September 18, 2013

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

SUBJECT: Final Decision
Administrative Amendment
113-33583-00035

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:
Joseph VanCamp, Consultant, Cornerstone Environmental
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 6/13/2013

Mail Code 61-53

IDEM Staff	DPABST 9/18/2013 Kautex Textron, North America 113-33583-00035 (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		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Sherry Martz Kautex Textron, North America 210 Green Dr Avilla IN 46710 (Source CAATS) (CONFIRM DELIVERY)										
2		Noble County Board of Commissioners 101 North Orange Street Albion IN 46701 (Local Official)										
3		Noble County Health Department 2090 N. State Rd 9, Suite C Albion IN 46701-9566 (Health Department)										
4		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)										
5		Frederick & Iva Moore 6019 W 650 N Ligonier IN 46767 (Affected Party)										
6		Mr. Joseph VanCamp Cornerstone Environmental 312 E Diamond St. Kendallville IN 46755 (Consultant)										
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