



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

To: Interested Parties

Date: February 13, 2015

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

Source Name: Therma Tru Corporation

Permit Level: Significant Permit Modification

Permit Number: 033-34996-00019

Source Location: 601 RE Jones Road & 2724 County Road 75, Butler, Indiana

Type of Action Taken: Revisions to permit requirements

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 34996.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

(continues on next page)

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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.



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

Mr. Rick Goodman
Therma Tru Corporation
601 RE Jones Road
Butler, IN 46721

February 13, 2015

Re: 033-34996-00019
Significant Permit Modification to
Part 70 Renewal No.: T033-30711-00019

Dear Mr. Goodman:

Therma Tru Corporation was issued a Part 70 Operating Permit Renewal No. 033-30711-00019 on February 3, 2012 for a stationary metal and fiberglass entry door manufacturing source located at 601 RE Jones Road and 2724 County Road 75, Butler, Indiana. An application requesting changes to this permit was received on October 2, 2014. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified, including the following revised attachment:

Attachment E: Reserved

The permit references the below listed attachments. Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

Attachment A: 40 CFR 63, Subpart WWWW, Reinforced Plastic Composites Production

Attachment B: 40 CFR 63, Subpart MMMM, Surface Coating of Miscellaneous Metal Parts and Products

Attachment C: 40 CFR 63, Subpart PPPP, Surface Coating of Plastic Parts and Products

Attachment D: 40 CFR 63, Subpart ZZZZ, Reciprocating Internal Combustion Engines

Attachment F: 40 CFR 60, Subpart JJJJ, Stationary Spark Ignition Internal Combustion Engines

Previously issued approvals for this source containing these attachments are available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit 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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.



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 Brian Williams, of my staff, at 317-234-5375 or 1-800-451-6027, and ask for extension 4-5375.

Sincerely,



Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachment(s): Updated Permit, Technical Support Document and Appendix A

IC/BMW

cc: File - DeKalb County
DeKalb County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section
IDEM Northern Regional Office



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

**Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY**

**Therma Tru Corporation
601 RE Jones Road and 2724 County Road 75
Butler, Indiana 46721**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T033-30711-00019	
Issued by: Original Issued By: Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 3, 2012 Expiration Date: February 3, 2017

Significant Permit Modification No.: 033-31988-00019, issued on August 31, 2012
Significant Permit Modification No.: 033-34161-00019, issued on June 11, 2014

Significant Permit Modification No.: 033-34996-00019	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 13, 2015 Expiration Date: February 3, 2017



TABLE OF CONTENTS

A. SOURCE SUMMARY

- A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]
- A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]
- A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(14)]
- A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)]
[326 IAC 2-7-5(14)]
- A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

B. GENERAL CONDITIONS

- B.1 Definitions [326 IAC 2-7-1]
- B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)]
[IC 13-15-3-6(a)]
- B.3 Term of Conditions [326 IAC 2-1.1-9.5]
- B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]
- B.5 Severability [326 IAC 2-7-5(5)]
- B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]
- B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]
- B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]
- B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]
- B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]
- B.11 Emergency Provisions [326 IAC 2-7-16]
- B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]
- B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]
- B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]
- B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]
- B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]
- B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]
- B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12(b)(2)]
- B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]
- B.20 Source Modification Requirement [326 IAC 2-7-10.5]
- B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]
- B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]
- B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]
- B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

C. SOURCE OPERATION CONDITIONS

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- C.1 Particulate Emission Limitations For Processes with Process Weight Rates
Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]
- C.2 Opacity [326 IAC 5-1]
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
- C.5 Fugitive Dust Emissions [326 IAC 6-4]
- C.6 Stack Height [326 IAC 1-7]
- C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

Testing Requirements [326 IAC 2-7-6(1)]

- C.8 Performance Testing [326 IAC 3-6]

Compliance Requirements [326 IAC 2-1.1-11]

- C.9 Compliance Requirements [326 IAC 2-1.1-11]

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

- C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]
- C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)]
[326 IAC 2-7-6(1)]

Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]

- C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.13 Risk Management Plan [326 IAC 2-7-5(11)] [40 CFR 68]
- C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]
- C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)]
[326 IAC 2-6]
- C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]
- C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

- C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1 FACILITY OPERATION CONDITIONS: Door Assembly

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.1.1 PSD Minor Limit for Volatile Organic Compounds (VOC) [326 IAC 2-2]
- D.1.2 PSD Minor Limit for Particulate Matter [326 IAC 2-2]
- D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]
- D.1.4 Volatile Organic Compound (VOC) [326 IAC 8-2-9]
- D.1.5 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]
- D.1.6 Particulate [326 IAC 6-3-2(d)]
- D.1.7 Particulate [326 IAC 6-3-2]
- D.1.8 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

Compliance Determination Requirements

- D.1.9 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]
- D.1.10 Particulate Matter (PM/PM10) Emission Determination [326 IAC 2-2]
- D.1.11 Particulate Control [326 IAC 2-7-6(6)]
- D.1.12 Testing Requirements [326 IAC 2-1.1-11]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- D.1.13 Monitoring [40 CFR 64]
- D.1.14 Monitoring
- D.1.15 Visible Emissions Notations
- D.1.16 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)][40 CFR 64]
- D.1.17 Broken or Failed Bag Detection
- D.1.18 Cyclone Failure Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- D.1.19 Record Keeping Requirements
- D.1.20 Reporting Requirements

D.2 FACILITY OPERATION CONDITIONS: SMC Operations subject to NESHAP WWWW

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.2.1 Particulate Matter (PM) [326 IAC 6-3]
- D.2.2 PSD Minor Limit [326 IAC 2-2]
- D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

Compliance Determination Requirements

- D.2.4 Particulate Control [326 IAC 2-7-6(6)]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- D.2.5 Visible Emissions Notations
- D.2.6 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.2.7 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- D.2.8 Record Keeping Requirements

D.3 FACILITY OPERATION CONDITION: Insignificant Activities

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]
- D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]
- D.3.3 Particulate [326 IAC 6-3-2]
- D.3.4 PSD Minor Limit [326 IAC 2-2]
- D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

Compliance Determination Requirements

- D.3.6 Particulate Control [326 IAC 2-7-6(6)]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- D.3.7 Visible Emissions Notations
- D.3.8 Broken or Failed Cyclone/Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- D.3.9 Record Keeping Requirements

D.4 Reserved

D.5 Source-Wide VOC Emissions Limit

Emission Limitations and Standards [326 IAC 2-7-5(1)] [326 IAC 2-2]

- D.5.1 PSD Minor Limit [326 IAC 2-2]

Compliance Determination Requirements

- D.5.2 Volatile Organic Compounds (VOC)
- D.5.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- D.5.4 Record Keeping Requirements
- D.5.5 Reporting Requirements

E.1 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REQUIREMENTS [326 IAC 2-7-5(1)] [40 CFR 63, Subpart MMMM]

- E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]
- E.1.2 Miscellaneous Metal Part and Products Surface Coating Requirements [40 CFR Part 63, Subpart MMMM]

E.2 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REQUIREMENTS [326 IAC 2-7-5(1)] [40 CFR 63, Subpart PPPP]

- E.2.1 General Provisions Relating to NESHAP PPPP [326 IAC 20-1] [40 CFR Part 63, Subpart A]
- E.2.2 Coating of Plastic Parts and Products NESHAP [40 CFR Part 63, Subpart PPPP]

E.3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REQUIREMENTS [326 IAC 2-7-5(1)] [40 CFR 63, Subpart WWWW]

- E.3.1 General Provisions Relating to NESHAP WWWW [326 IAC 20-1] [40 CFR Part 63, Subpart A]
- E.3.2 Reinforced Plastic Composites Production NESHAP [40 CFR Part 63, Subpart WWWW]

E.4 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES [40 CFR 63, SUBPART ZZZZ] [326 IAC 2-7-5(1)]

- E.4.1 New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines [40 CFR 63, Subpart ZZZZ][326 IAC 20-1]

NEW SOURCE PERFORMANCE STANDARDS (NSPS) FOR STATIONARY SPARK IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60, SUBPART JJJJ] [326 IAC 2-7-5(1)]

- E.4.2 General Provisions Relating to NSPS [40 CFR 60, Subpart A][326 IAC 12-1]
- E.4.3 New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ][326 IAC 12]

Certification

Emergency Occurrence Report

Part 70 Quarterly Reports

Quarterly Deviation and Compliance Monitoring Report

Attachment A - NESHAP, Subpart WWWW

Attachment C - NESHAP, Subpart PPPP

Attachment E – Reserved

Attachment B - NESHAP, Subpart MMMM

Attachment D - NESHAP, Subpart ZZZZ

Attachment F - NSPS, Subpart JJJJ

SECTION A SOURCE SUMMARY

This permit 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 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee 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 Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary metal and fiberglass entry door manufacturing source.

Source Address:	601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
General Source Phone Number:	260 - 868 - 5811
SIC Code:	3089 (Plastic Products, Not Elsewhere Classified) and 3442 (Metal Doors, Sash, Frames, Molding, and Trim Manufacturing)
County Location:	DeKalb
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This stationary stationary metal and fiberglass entry door manufacturing source consists of two (2) plants:

- (a) Plant 1 is located at 601 RE Jones Road, Butler, Indiana; and
- (b) Plant 2 is located at 2724 County Road 75, Butler, Indiana.

Since the two (2) plants are located on adjacent properties, belong to the same industrial grouping, and under common control of the same entity, they are considered one (1) major source under 326 IAC 2-7 (Part 70 Permit Program).

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(14)]

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

- (a) One (1) steel door assembly line, identified as ADL Line, consisting of the following operations, constructed in 2009:
 - (1) One (1) ADL paint line, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.

Under 40 CFR 63 (NESHAP), Subpart M, this unit is considered a miscellaneous metal parts and products surface coating facility.

- (2) One (1) ADL GLG adhesive process, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

- (3) One (1) ADL paint oven, identified as SCO-2, with a maximum heat input capacity of 2.0 MMBtu/hr, using only natural gas and electric power, with no add-on control, and exhausting to a stack.
- (4) One (1) ADL foam press, identified as SF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SF-2.1.
- (5) One (1) ADL OLB (boring operation), identified as SDMC-2A, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control identified as CY-2, and exhausting to stack CY-2.
- (6) One (1) ADL OLB (end rail boring operation), identified as SDMC-2B, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control identified as CY-2, and exhausting to stack CY-2.
- (7) One (1) ADL DMC (machining station), identified as EU4, installed in 1989, using a cyclone for particulate control identified as CY-2, and exhausting to stack CY-2, capacity: 360 doors per hour and 16,200 pounds per hour.
- (8) One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

- (b) One (1) Door Assembly Line, identified as BDL Line, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
 - (1) One (1) BDL GLG adhesive process, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.
 - (2) One (1) BDL flame treat process, identified as D2-OV2, exhausting through exhausting inside the building, maximum heat input capacity of 0.25 MMBtu/hr, and capacity: 360 doors per hour.
 - (3) One (1) BDL foam press, identified as D2-F1, exhausting through Stack 19.1, capacity: 2,300 pounds of resin and foam insulation per hour or 360 doors per hour.
 - (4) One (1) BDL DMC (door machining station), identified as D2-MS1, including an online boring center (D2-MS1-1), equipped with a baghouse and cyclone connected in series, identified as DC4, exhausting through Stack 20.1, capacity: 360 doors per hour or 18,000 pounds per hour.

(c) One (1) fiberglass door assembly line, identified as CDL Line, consisting of the following operations, constructed in 2009:

(1) One (1) CDL GLG adhesive process, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SVFA-2.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered plastic parts and products surface coating facility.

(2) One (1) CDL foam press, identified as FF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SVFF-2.

(3) One (1) CDL flame treat process, identified as FCO-2, with a maximum heat input capacity of 0.25 MMBtu/hr, using natural gas only, with no add-on control, and exhausting to a stack.

(4) One (1) CDL DMC (machining operation), identified as FDMC-2A, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, identified as DC3, and exhausting to stack DC1-1.

(5) One (1) CDL OLB (online boring center), identified as FDMC-2B, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, identified as DC3, and exhausting to stack DC1-1.

(d) One (1) conveyORIZED coating line, identified as Breeze Line, consisting of the following operations, constructed in 2011:

(1) Six (6) coating booths, identified as breeze booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.

(2) Two (2) manual booths, identified as breeze booths 7 through 8, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-8.

Under 40 CFR 63 (NESHAP), Subpart MMMM, these units are considered miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.

(e) Machining centers as follows:

Connected to dust collector DC5 and exhausting to stack DC5-1:

(1) One (1) Thermwood 1 machining centers for Patio Doors, identified as PA-2, installed in 2006, capacity: 11.25 patio door units per hour, each.

(2) One (1) new KVAL cutout machines, identified as CO-3, installed in 2000, respectively, capacity: 50 units per hour.

- (3) One (1) C.R. Onsrud #1, this CNC operation is used for machining hinges, slots, lock openings and window openings in doors, permitted in 2012, identified as CNC-1, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.

Connected to dust collector DC6 and exhausting to stack DC6-1:

- (4) One (1) C.R. Onsrud #2, this CNC Thermwood machining center is used for Patio Doors, identified as PA-1, installed in 2006, capacity: 11.25 patio door units per hour, each.
 - (5) One (1) Auto KVAL cutout machine, identified as CO-1, installed in 1993, capacity: 50 units per hour.
 - (6) One (1) cut out next cutout machine, identified as CO-2, installed in 1993, capacity: 50 units per hour.
 - (7) One (1) C12 cutout machine, identified as CO-4, constructed in 2009, with a maximum throughput capacity of 2,450 pounds per hour.
 - (8) Miscellaneous TLI machining operations, permitted in 2010.
 - (9) One (1) CNC operation for machining hinges, slots, lock openings, and window openings in doors, approved in 2015 for construction, identified as CNC-2, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.
- (f) One (1) D-Saw, identified as DCS-1, installed in 2004, using a baghouse for particulate control, identified as DC1, exhausting to a stack DCS-1, capacity: 130 door skins per hour.
- (g) One (1) spray booth coating operation, constructed in 2007 and modified in 2010, identified as Lowes Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as TLI Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (2) Two (2) manual paint booths, identified as TLI Booths (booths 6 and 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control and exhausting to stacks TLI-6 and TLI-7.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (3) One (1) paint kitchen for mixing, handling, and storing paint.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (4) One (1) spray booth, identified as TLI booth 8, constructed in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control and exhausting to stack TLI-8.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (5) One (1) TLI cutout machine, identified as TLI cutout, modified in 2010, with a maximum throughput capacity of 1,375 pounds per hour, using cyclone CY-3 for particulate control.

- (h) One (1) CD-Spray Booth, constructed in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (i) One (1) Sheet Molding Compound (SMC) Production Line, identified as SMC2, installed in 2000, capacity: 18,500 pounds of molding compound per hour, consisting of:

- (1) Two (2) calcium carbonate silos, identified as SILO1 and SILO2, each equipped with a baghouse, exhausting through Stacks 25.2 and 25.3, throughput: 8,800 pounds of calcium carbonate per hour, each, capacity: 200,000 pounds of calcium carbonate, each.

- (2) Two (2) resin mixers, exhausting through Stack 17.1 and/or Stack 17.2, total throughput: 8,880 pounds of calcium carbonate, 4,700 pounds of resin, 648 pounds of pigment mixture, 130 pounds of release agent, and 74 pounds of catalyst per hour. Under 40 CFR 63 (NESHAP), Subpart W WWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (3) One (1) sheet molding compound extruder, exhausting through Stack 17.1 and/or Stack 17.2, throughput 14,432 pounds of materials plus 4,070 pounds of chopped fiberglass strands per hour.

Under 40 CFR 63 (NESHAP), Subpart W WWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (j) One (1) molding compound (FMC) production operation, identified as FMC Machine, approved in 2014 for construction, capacity: 3,750 pounds of FMC per hour or 90,000 pounds of FMC per day, uncontrolled, exhausting to stack S-1, and consisting of:
- (1) Three (3) resin storage totes, with a maximum storage capacity of 330 gallons each;
 - (2) Three (3) resin transfer pumps;
 - (3) One (1) resin mixer (Shar);
 - (4) One (1) resin mixer (FMC); and
 - (5) One (1) extruder

Under 40 CFR 63 (NESHAP), Subpart WWWW, these emission units are considered a molding compound (FMC) manufacturing operation.

- (k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

- (l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or FMC per hour. Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

- (p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour each and a combined total of 4,826 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (w) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (x) One (1) F-Saw, identified as DCS-2, constructed in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, identified as DC1, and exhausting to stack DCS-1.
- (y) One (1) dry additive mixer, identified as SMCDM-1, constructed in 2009, with a maximum throughput capacity of 33 pounds per hour, using a baghouse for particulate control, and exhausting to stack SMCDM-1.1.
- (z) One (1) miscellaneous sawing/trimming operation, identified as MS-2, constructed in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, identified as DC1, and exhausting to stack DCS-1.

- (aa) One (1) cold cleaning/degreasing operation, identified as CC-2, constructed in 2009, with a maximum solvent usage capacity of 1 gallon per day, and venting inside the building.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-8]
- (b) Grinding and machining operations controlled with sock filter, fabric filters, and a cyclone (CY-3) with a design grain loading of less than or equal to 0.03 grains per actual cubic feet and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking. [326 IAC 6-3-2]

- (c) Four (4) five thousand (5,000) gallon tanks storing urethane system resin component with VOC emissions less than 3 lb/hr and 15 lbs/day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (d) Three (3) five thousand (5,000) gallon tanks storing polymethylene polyphenylisocyanate (poly) with VOC emissions less than 3 lb/hr and 15 lbs/day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (e) Six (6) above ground resin storage tanks, identified as Tanks 1 through 6, exhausting through stack 17.1 and/or stack 17.2 capacity: 10,000 gallons each, throughput 4,700 pounds of resin per hour with VOC emissions less than three (3) pounds per hour and fifteen (15) pounds per day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (f) Five (5) resin holding tanks consisting of two (2) tanks, identified as A Side-Tank 1 and A Side-Tank 2 capacity: 1,500 gallons of resin each, and three (3) tanks, identified B Side-1 through B Side-3, capacity: 80 gallons of resin, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage. Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (g) One (1) 6,300-gallon tank storing polymethylene polyphenylisocyanate (poly) with VOC emissions less than 3 lb/hr and 15 lbs/day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (h) Activities with particulate emissions less than 5 lbs/hour or 25 lbs/day:

- (1) Three (3) fiberglass skin cut down saws (FS-1, FS-2 and FS-3) [326 IAC 6-3-2].
- (2) One (1) sanding booth (FS-4) [326 IAC 6-3-2].

- (i) One (1) twelve thousand (12,000) -gallon aboveground storage tank, identified as T001, storing cyclopentane, covered by a nitrogen cap and pressurized to approximately thirty-five (35) psi. Under 40 CFR 68, Chemical Accident Prevention Provisions, this tank is used for storage of a flammable substance over 10,000 lbs, and requires a Risk Management Plan (RMP).
- (j) One (1) natural gas-fired reciprocating emergency generator, identified as EG-1 rated at fifty (50) kW (~67 HP), (ordered in October 2010), and approved in 2010 for construction.

This four-stroke rich-burn natural gas generator, identified as EG-1, is considered an affected facility under the NSPS for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60, Subpart JJJJ) and a new stationary reciprocating internal combustion engine at a major source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CRF 63, Subpart ZZZZ).

- (k) One (1) diesel fuel-fired compression ignition emergency generator for fire suppression system, identified as EG-2 rated at fifty (350) kilowatt (kW) (~469.2 HP), installed and manufactured in 2005.

EG-2, is considered an existing stationary reciprocating internal combustion engine at a major source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CRF 63, Subpart ZZZZ).

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit 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 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, T033-30711-00019, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 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, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit 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.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance

causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Northern Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or

Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)

Facsimile Number: 317-233-6865

Northern Regional Office phone: (574) 245-4870; fax: (574) 245-4877.

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;

- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable

requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T033-30711-00019 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) 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.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

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

- (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.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
- (A) Asbestos removal or demolition start date;
- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.8 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

- (b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(11)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit 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.

- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Door Assembly

- (a) One (1) steel door assembly line, identified as ADL Line, consisting of the following operations, constructed in 2009:
- (1) One (1) ADL paint line, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
 - (2) One (1) ADL GLG adhesive process, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
 - (3) One (1) ADL paint oven, identified as SCO-2, with a maximum heat input capacity of 2.0 MMBtu/hr, using only natural gas and electric power, with no add-on control, and exhausting to a stack.
 - (4) One (1) ADL foam press, identified as SF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SF-2.1.
 - (5) One (1) ADL OLB (boring operation), identified as SDMC-2A, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control identified as CY-2, and exhausting to stack CY-2.
 - (6) One (1) ADL OLB (end rail boring operation), identified as SDMC-2B, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control identified as CY-2, and exhausting to stack CY-2.
 - (7) One (1) ADL DMC (machining station), identified as EU4, installed in 1989, using a cyclone for particulate control identified as CY-2, and exhausting to stack CY-2, capacity: 360 doors per hour and 16,200 pounds per hour.
 - (8) One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
- (b) One (1) Door Assembly Line, identified as BDL Line, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
- (1) One (1) BDL GLG adhesive process, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.

- (2) One (1) BDL flame treat process, identified as D2-OV2, exhausting through exhausting inside the building, maximum heat input capacity of 0.25 mmBtu/hr, and capacity: 360 doors per hour.
- (3) One (1) BDL foam press, identified as D2-F1, exhausting through Stack 19.1, capacity: 2,300 pounds of resin and foam insulation per hour or 360 doors per hour.
- (4) One (1) BDL DMC (door machining station), identified as D2-MS1, including an online boring center (D2-MS1-1), equipped with a baghouse and cyclone connected in series, identified as DC4, exhausting through Stack 20.1, capacity: 360 doors per hour or 18,000 pounds per hour.

(c) One (1) fiberglass door assembly line, identified as CDL Line, consisting of the following operations, constructed in 2009:

- (1) One (1) CDL GLG adhesive process, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SVFA-2.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.

- (2) One (1) CDL foam press, identified as FF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SVFF-2.
- (3) One (1) CDL flame treat process, identified as FCO-2, with a maximum heat input capacity of 0.25 MMBtu/hr, using natural gas only, with no add-on control, and exhausting to a stack.
- (4) One (1) CDL DMC (machining operation), identified as FDMC-2A, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, identified as DC3, and exhausting to stack DC1-1.
- (5) One (1) CDL OLB (online boring center), identified as FDMC-2B, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, identified as DC3, and exhausting to stack DC1-1.

(d) One (1) conveyerized coating line, identified as Breeze Line, consisting of the following operations, constructed in 2011:

- (1) Six (6) coating booths, identified as breeze booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
- (2) Two (2) manual booths, identified as breeze booths 7 through 8, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-8.

Under 40 CFR 63 (NESHAP), Subpart MMMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.

(e) Machining centers as follows:

Connected to dust collector DC5 and exhausting to stack DC5-1:

- (1) One (1) Thermwood 1 machining centers for Patio Doors, identified as PA-2, installed in 2006, capacity: 11.25 patio door units per hour, each.
- (2) One (1) new KVAL cutout machines, identified as CO-3, installed in 2000, respectively, capacity: 50 units per hour.
- (3) One (1) C.R. Onsrud #1, this CNC operation is used for machining hinges, slots, lock openings and window openings in doors, permitted in 2012, identified as CNC-1, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.

Connected to dust collector DC6 and exhausting to stack DC46-1:

- (4) One (1) C.R. Onsrud #2, this CNC Thermwood machining center is used for Patio Doors, identified as PA-1, installed in 2006, capacity: 11.25 patio door units per hour, each.
 - (5) One (1) Auto KVAL cutout machine, identified as CO-1, installed in 1993, capacity: 50 units per hour.
 - (6) One (1) cut out next cutout machine, identified as CO-2, installed in 1993, capacity: 50 units per hour.
 - (7) One (1) C12 cutout machine, identified as CO-4, constructed in 2009, with a maximum throughput capacity of 2,450 pounds per hour.
 - (8) Miscellaneous TLI machining operations, permitted in 2010.
 - (9) One (1) CNC operation for machining hinges, slots, lock openings, and window openings in doors, approved in 2015 for construction, identified as CNC-2, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.
- (f) One (1) D-Saw, identified as DCS-1, installed in 2004, using a baghouse for particulate control, identified as DC1, exhausting to a stack DCS-1, capacity: 130 door skins per hour.
- (g) One (1) spray booth coating operation, constructed in 2007 and modified in 2010, identified as Lowes Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as TLI Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.

Under 40 CFR 63 (NESHAP), Subpart Mmmm, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart PPPP, these units are considered plastic parts and products surface coating facilities.

- (2) Two (2) manual paint booths, identified as TLI Booths (booths 6 & 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (3) One (1) paint kitchen for mixing, handling, and storing paint.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (4) One (1) spray booth, identified as TLI-8, constructed in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (5) One (1) TLI cutout machine, identified as TLI cutout, modified in 2010, with a maximum throughput capacity of 1,1375 pounds per hour, using cyclone CY-3 for particulate control.

- (h) One (1) CD-Spray Booth, constructed in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (w) One (1) F-Saw, identified as DCS-2, constructed in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, identified as DC1, and exhausting to stack DCS-1.

- (x) One (1) dry additive mixer, identified as SMCDM-1, approved for construction in 2009, with a maximum throughput capacity of 33 pounds per hour, using a baghouse for particulate control, and exhausting to stack SMCDM-1.1.

- (y) One (1) miscellaneous sawing/trimming operation, identified as MS-2, constructed in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, identified as DC1, and exhausting to stack DCS-1.

(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 2-7-5(1)]

D.1.1 PSD Minor Limit [326 IAC 2-2]

- (a) In order to render 326 IAC 2-2 not applicable, the PM, PM10, and PM2.5 emissions from each facility listed in the table below shall not exceed its specified limit:

Emission Unit	PM limit (pounds per hour)	PM10 limit (pounds per hour)	PM2.5 limit (pounds per hour)
SDMC-2A	1.80	1.80	1.80
FDMC-2A	2.54	2.54	2.54
FDMC-2B	1.80	1.80	1.80
DCS-2	0.32	0.32	0.32
MS-2	0.49	0.49	0.49
SDMC-2B	0.10	0.10	0.10
SMCDM-1	0.01	0.01	0.01
D2-MS1	2.54	2.54	2.54
D2-MS1-1	1.8	1.8	1.8
PA-1	0.067	0.067	0.067
EU4	16.17	16.17	16.17
DCS-1	0.64	0.64	0.64
TLI Cut Out	3.43	3.43	3.43
PA2, CO-3, CNC-1 (dust collector DC5)	0.62	0.62	0.62
PA-1, CO-1, CO-2, CO-4, TLI Misc., & CNC-2 (dust collector DC6)	1.63	1.63	1.63

- (b) In order to render 326 IAC 2-2 not applicable, the total PM, PM10, and PM2.5 emissions from the surface coating facilities listed in table below shall not exceed 78 tons per twelve (12) consecutive month period.

Process	Emission Unit ID
Lowes Coating Line	Booth 1-8
ADL Line	SP-2
ADL Repair	BPO2-9
Breeze Line	Booths 1 through 8
CD-Spray Booth	CD-3

Compliance with the above limits in conjunction with Conditions D.2.2, D.3.4 and D.4.3, and PTE of PM, PM10, and PM2.5 from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive PM, PM10, and PM2.5 emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.

D.1.2 PSD Minor Limit for Particulate Matter [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

- (a) The total PM emissions from CD-3 and the Lowes Coating Line shall not exceed fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The total PM10 emissions from CD-3 and the Lowes Coating Line shall not exceed fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above limit shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to SSM No. 033-25066-00019, issued on December 12, 2007.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

In order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall limit the input of VOC including coatings, dilution solvents, and cleaning solvents to the Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), to less than twenty-five (25) tons per twelve (12) consecutive month period when coating plastic products, with compliance determined at the end of each month.

Compliance with the above limit shall limit the VOC emissions from the Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), to less than twenty-five (25) tons per twelve (12) consecutive month period and render 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable to SSM No. 033-25066-00019, issued on December 14, 2007 with respect to VOC.

D.1.4 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicators at D2-APP1, the Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, BPO2-9, SA-2 and Breeze Line (booths 1 through 8) when coating metal products.

D.1.5 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:

- (1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
- (2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
- (3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
- (4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
- (5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.1.6 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) BDL GLG adhesive process (D2-APP1), Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), the one (1) CD-Spray Booth (CD-3), the ADL paint line (SP-2), ADL repair manual coating booth (BPO2-9) and Breeze Line (booths 1 through 8) shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.1.7 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed below shall be limited as specified when operating at the respective process weight rate:

Emission Unit/Activity	Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)
EU4	8.1	16.65
D2-MS1 and D2-MS1-1	9.0	17.87
PA-1	0.38	2.15
CO-1, CO-2, and CO-3 (each)	1.225	4.70
DCS-1	1.235	4.72
SDMC-2A	8.1	16.65
SDMC-2B	8.1	16.65
FDMC-2A	9.1	18
FDMC-2B	9.1	18
CO-4	1.225	4.7
DCS-2	1.235	4.72
MS-2	1.235	4.72
CNC-1	0.4875	2.35
CNC-2	0.49	2.53

The pounds per hour limitations were calculated using 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:

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

D.1.8 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the Preventive Maintenance Plan required by this condition.

Compliance Determination Requirements

D.1.9 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Compliance with the VOC usage and content limitations contained in Conditions D.1.3 and D.1.4 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.10 Particulate Matter (PM/PM10/PM2.5) Emissions Determination [326 IAC 2-2]

- (a) Compliance with Condition D.1.1(b) shall be determined by calculating the PM, PM10, and PM2.5 emissions associated with each coating applied at the emission units listed in Condition D.1.1(b) using the following equation:

$$\text{PM/PM10/PM2.5} = (\sum \text{CU} \times \text{D} \times \text{W}\% \text{S}) \times [1 - (\text{TE}/100)] \times [1 - (\text{CE}/100)] \times 1/2000$$

Where:

- PM/PM10/PM2.5 = The total PM/PM10/PM2.5 emissions (ton/month) for all coatings.
CU = The total Coating use (gal coating/month) of each coating.
D = The density (lb coating/gal coating) of each coating.
W%S = The weight percent solids (lb solids/lb coating) of each coating.
TE = The transfer efficiency (%) of the spray applicators. This value shall be equal 75% for High Volume and Low Pressure (HVLP) spray application method and 50% for Airless spray application method; unless an IDEM approved test is conducted, in which case the value shall equal that determined from the most recent IDEM approved test.
CE = The control efficiency (%) of the dry filters. This value shall be equal 95%.

- (b) Compliance with Condition D.1.2 shall be determined by calculating the PM and PM10 emissions associated with each coating applied at the emission units listed in Conditions D.1.2 using the following equation:

$$\text{PM/PM10} = (\sum \text{CU} \times \text{D} \times \text{W}\% \text{S}) \times [1 - (\text{TE}/100)] \times [1 - (\text{CE}/100)] \times 1/2000$$

Where:

- PM/PM10 = The total PM/PM10 emissions (ton/month) for all coatings.
CU = The total Coating use (gal coating/month) of each coating.
D = The density (lb coating/gal coating) of each coating.
W%S = The weight percent solids (lb solids/lb coating) of each coating.
TE = The transfer efficiency (%) of the spray applicators. This value shall be equal 75% for High Volume and Low Pressure (HVLP) spray application method and 50% for Airless spray application method; unless an IDEM approved test is conducted, in which case the value shall equal that determined from the most recent IDEM approved test.
CE = The control efficiency (%) of the dry filters. This value shall be equal 95%.

D.1.11 Particulate Control [326 IAC 2-7-6(6)][326 IAC 2-2]

- (a) In order to comply with Conditions D.1.1 and D.1.7, the particulate control devices equipped on the emission units listed in Conditions D.1.1 and D.1.7 shall be in operation and control emissions from its associated emission units at all times that the associated emission units are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.12 Testing Requirements [326 IAC 2-1.1-11]

- (a) In order to demonstrate the compliance with Condition D.1.1(a), the Permittee shall perform PM, PM10, and PM2.5 testing on FDMC-2A, FDMC-2B, DC5 and DC6 utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. The Permittee shall perform the initial PM2.5 testing from the date of the most recent valid compliance demonstration for PM and PM10. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C -- Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 includes filterable and condensable PM.
- (b) In order to demonstrate the compliance with Condition D.1.1(b), the Permittee shall conduct transfer efficiency testing on one (1) of the booths in Breeze Line no later than 180 days after the initial start-up of Breeze Line. The testing shall be performed using 'Airless Spray' application method. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. The repeat testing shall be done on a booth from the Breeze Line that has not been tested in the past ten (10) years. Testing shall be conducted using methods approved by the Commissioner and in accordance with 326 IAC 3-6-3. Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.13 Monitoring [40 CFR 64]

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters equipped on SP-2, booths of Lowes coating line, and Breeze Line.
- (b) To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the stacks (Stacks TLI-1, TLI-2, TLI-3, TLI-4, TLI-5, SP-2.1, and SBPO2-1 through SBPO2-8) while one or more of the associated booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (c) Monthly inspections shall be performed of the coating emissions from the stacks (TLI-1, TLI-2, TLI-3, TLI-4, TLI-5, SP-2.1, and SBPO2-1 through SBPO2-8) and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

The above monitoring conditions satisfy the Compliance Assurance Monitoring (CAM) for SP-2, Booths 1 through 5 of the Lowes coating line, and SBPO2-1 through SBPO2-8.

D.1.14 Monitoring

- (a) Weekly inspections shall be performed to verify the placement, integrity and particle loading of the dry filters used in conjunction with BP02-9, TLI-6, TLI-7, TLI-8, and CD-3.
- (b) To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the stacks SBPO2-9, CD3-1, TLI-6, TLI-7, and TLI-8 while the associated coating facilities with these stacks are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (c) Monthly inspections shall be performed of the coating emissions from the stacks SBPO2-9, CD3-1, TLI-6, TLI-7, and TLI-8 and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.15 Visible Emissions Notations

- (a) Visible emission notations of stack exhausts (CY-2, 20.1, DC5-1, DC6-1, DC3-1, DCS-1, SMCDM-1.1, and TLI Cut Out) shall be performed. These notations shall be taken once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.16 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the dust collectors, cyclone and baghouse used in conjunction with EU4, D2-MS1 and D2-MS1-1, PA-1, CO-1, CO-2, CO-3, DCS-1, SDMC-2A, FDMC-2A, FDMC-2B, CO-4, DCS-2, MS-2, SDMC-2B, SMCDM-1, CNC-1, CNC-2, and TLI Cut Out at least once per day when any of these facilities are in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take reasonable response. The normal range for these units is a pressure drop between 1.0 and 7.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A

pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.1.17 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

D.1.18 Cyclone Failure Detection

- (a) For a cyclone controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a cyclone controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Cyclone failure can be indicated by a significant drop in the cyclone's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.19 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits established in Condition D.1.3. Records necessary to demonstrate compliance shall be available not later than 30 days after the end of each compliance period.
 - (1) The VOC content of each coating material and solvent used.

- (2) The amount of coating material and solvent used on monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (3) The total VOC usage for each month.
 - (4) The cleanup solvent usage for each month.
 - (5) The total VOC usage for each compliance period.
- (b) To document the compliance status with Conditions D.1.1(b) and D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to demonstrate compliance with the PM/PM10/PM2.5 emission limits established in Condition D.1.1(b) and the PM/PM10 emission limits established in Condition D.1.2.
- (1) The amount of each coating material used (as applied). Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (2) The density and weight percent solids of each coating material used (as applied).
 - (3) The transfer efficiency (TE) of the spray guns used at coating operations listed in Condition D.1.1(b) and D.1.2.
- (c) To document the compliance status with Condition D.1.4, the Permittee shall maintain records in accordance with (1) and (2) below. Records maintained for (1) and (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content limit established in Condition D.1.4. Records necessary to demonstrate compliance shall be available not later than 30 days after the end of each compliance period.
- (1) The VOC content of each coating, as received, and solvent used less water.
 - (A) Records shall include material safety data sheets (MSDS) necessary to verify the type of coating and solvent used.
 - (2) The VOC content of each coating, as applied.
 - (A) Records shall include type and amount of solvent added to each coating for dilution.
- (d) To document the compliance status with Conditions D.1.13 and D.1.14, the Permittee shall maintain a log of weekly overspray observations, and daily, weekly and monthly inspections.
- (e) To document the compliance status with Condition D.1.15, the Permittee shall maintain records of visible emission notations of the CY-2, 20.1, DC5-1, DC6-1, DC3-1, DCS-1, SMCDM-1.1, and TLI Cut Out stack exhausts when vented to atmosphere once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).
- (f) To document the compliance status with Condition D.1.16, the Permittee shall maintain records once per day of the pressure drop during normal operation when venting to the

atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).

- (g) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.20 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.1(b), D.1.2, and D.1.3, shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. This report requires a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: SMC Operations subject to NESHAP WWWW

- (i) One (1) Sheet Molding Compound (SMC) Production Line, identified as SMC2, installed in 2000, capacity: 18,500 pounds of molding compound per hour, consisting of:
 - (1) Two (2) calcium carbonate silos, identified as SILO1 and SILO2, each equipped with a baghouse, exhausting through Stacks 25.2 and 25.3, throughput: 8,800 pounds of calcium carbonate per hour, each, capacity: 200,000 pounds of calcium carbonate, each.
 - (2) Two (2) resin mixers, exhausting through Stack 17.1 and/or Stack 17.2, total throughput: 8,880 pounds of calcium carbonate, 4,700 pounds of resin, 648 pounds of pigment mixture, 130 pounds of release agent, and 74 pounds of catalyst per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
 - (3) One (1) sheet molding compound extruder, exhausting through Stack 17.1 and/or Stack 17.2, throughput 14,432 pounds of materials plus 4,070 pounds of chopped fiberglass strands per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

- (p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour each and a combined total of 4,826 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (w) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

Insignificant Activities

- (c) Four (4) five thousand (5,000) gallon tanks storing urethane system resin component with VOC emissions less than 3 lb/hr and 15 lbs/day. Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (d) Three (3) five thousand (5,000) gallon tanks storing polymethylene polyphenylisocyanate (poly) with VOC emissions less than 3 lb/hr and 15 lbs/day.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.
- (e) Six (6) above ground resin storage tanks, identified as Tanks 1 through 6, exhausting through stack 17.1 and/or stack 17.2 capacity: 10,000 gallons each, throughput 4,700 pounds of resin per hour with VOC emissions less than three (3) pounds per hour and fifteen (15) pounds per day.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.
- (f) Five (5) resin holding tanks consisting of two (2) tanks, identified as A Side-Tank 1 and A Side-Tank 2 capacity: 1,500 gallons of resin each, and three (3) tanks, identified B Side-1 through B Side-3, capacity: 80 gallons of resin, each.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage. Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.
- (g) One (1) 6,300-gallon tank storing polymethylene polyphenylisocyanate (poly) with VOC emissions less than 3 lb/hr and 15 lbs/day.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

(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 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2, the particulate emission rate from SILO1 and SILO2 shall not exceed 11.06 pounds per hour, each, when operating at a process weight rate of 8,800 pounds per hour (4.4 tons per hour), each.

The pounds per hour limitation was calculated with the following equation:

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

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

D.2.2 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the PM, PM10, and PM2.5 emissions from each facility listed in the table below shall not exceed its specified limit:

Emission Unit	PM limit (pounds per hour)	PM10 limit (pounds per hour)	PM2.5 limit (pounds per hour)
SILO1	0.17	0.17	0.17
SILO2	0.17	0.17	0.17

Compliance with the above limits in conjunction with Conditions D.1.1, D.3.4 and D.4.3 and PTE of PM, PM10, and PM2.5 from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive PM, PM10, and PM2.5 emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for the calcium carbonate silos, identified as SILO1 and SILO2 and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the Preventive Maintenance Plan required by this condition.

Compliance Determination Requirements

D.2.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.2.1 and D.2.2, the baghouses for particulate control shall be in operation and control emissions from SILO1 and SILO2 at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.5 Visible Emissions Notations

- (a) Visible emission notations of the SILO1 and SILO2 stack exhausts (Stacks 25.2 and 25.3) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.2.6 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The Permittee shall record the pressure drop across the baghouses used in conjunction with SILO1 and SILO2 at least once per day when SILO1 or SILO2 is in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take reasonable response. The normal range for this unit is a pressure drop between 1.0 and 7.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test.

Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.2.7 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.5, the Permittee shall maintain records of visible emission notations of the SILO1 and SILO2 stack exhausts (Stacks 25.2 and 25.3) once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).
- (b) To document the compliance status with Condition D.2.6, the Permittee shall maintain records once per day of the pressure drop during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Insignificant Activities

- (a) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-8]
- (b) Grinding and machining operations controlled with sock filter, fabric filters, and a cyclone (TLI DC-1) with a design grain loading of less than or equal to 0.03 grains per actual cubic feet and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking. [326 IAC 6-3-2]
- (c) Activities with particulate emissions less than 5 lbs/hour or 25 lbs/day, controlled by baghouse:
 - (1) Three (3) fiberglass skin cut down saws (FS-1, FS-2 and FS-3) [326 IAC 6-3-2].
 - (2) One (1) sanding booth (FS-4) [326 IAC 6-3-2].
- (d) One (1) cold cleaning/degreasing operation, identified as CC-2, constructed in 2009, with a maximum solvent usage capacity of 1 gallon per day, and venting inside the building.

(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 2-7-5(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

- (a) Pursuant to 326 IAC 8-3-2(a), the owner or operator of a cold cleaner degreaser 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 owner or operator of a cold cleaner degreaser 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.

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8(a)(2), effective January 1, 2015, the degreasing operations are subject to the requirements of 326 IAC 8-3-8. Pursuant to 326 IAC 8-3-8(b)(2), the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty eight (68) degrees Fahrenheit).

D.3.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the insignificant grinding and machining operations, including FS-1, FS-2, FS-3 and FS-4, shall not exceed an amount determined by the following:

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.3.4 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the PM, PM10, and PM2.5 emissions from each facility listed in the table below shall not exceed its specified limit:

Emission Unit	PM limit (pounds per hour)	PM10 limit (pounds per hour)	PM2.5 limit (pounds per hour)
Grinding and machining operations	1.80	1.80	1.80
FS-1	0.026	0.026	0.026
FS-2	0.057	0.057	0.057
FS-3	0.057	0.057	0.057
FS-4	0.057	0.057	0.057

Compliance with the above limits in conjunction with Conditions D.1.1, D.2.2 and D.4.3, and PTE of PM, PM10, and PM2.5 from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive PM, PM10, and PM2.5 emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.

D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for the grinding and machining operations, fiberglass skin cut down saws (FS-1, FS-2 and FS-3), the sanding booth (FS-4) and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the Preventive Maintenance Plan required by this condition.

Compliance Determination Requirements

D.3.6 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.3.3 and D.3.4, the particulate control equipped on Grinding and machining operations, FS-1, FS-2, FS-3, FS-4 shall be in operation and control emissions from Grinding and machining operations, FS-1, FS-2, FS-3, FS-1 at all times that these facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.7 Visible Emissions Notations

- (a) Visible emission notations of the Grinding and machining operations, FS-1, FS-2, FS-3, FS-4 exhausts shall be performed once per week during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.3.8 Broken or Failed Cyclone/Bag Detection

- (a) For a cyclone/single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a cyclone/single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Cyclone failure can be indicated by a significant drop in the cyclone's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.9 Record Keeping Requirements

- (a) Pursuant to 326 IAC 8-3-8(c)(2), effective January 1, 2015 and to document the compliance status with Condition D.3.2, the Permittee shall maintain each of the following records for each purchase:
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase (or invoice/bill date of contract servicer indicating service date).
 - (3) The type of solvent purchased.
 - (4) The total volume of the solvent purchased.
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty eight (68) degrees Fahrenheit).

- (6) All records required by Condition D.3.8(a)(1) through (5) shall be:
 - (A) retained on-site or accessible electronically from the site for the most recent three (3) year period; and
 - (B) reasonably accessible for an additional two (2) year period.
- (b) To document the compliance status with Condition D.3.7, the Permittee shall maintain records of visible emission notations of the Grinding and machining operations, FS-1, FS-2, FS-3, FS-4 once per week. The Permittee shall include in its weekly record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.4

RESERVED

SECTION D.5 Source-Wide VOC Emission Limit

Emissions Unit Description:

- (a) One (1) steel door assembly line, identified as ADL Line, consisting of the following operations, constructed in 2009:
- (1) One (1) ADL paint line, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
 - (2) One (1) ADL GLG adhesive process, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
 - (3) One (1) ADL foam press, identified as SF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SF-2.1.
 - (4) One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
- (b) One (1) Door Assembly Line, identified as BDL Line, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
- (1) One (1) BDL GLG adhesive process, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.
 - (2) One (1) BDL foam press, identified as D2-F1, exhausting through Stack 19.1, capacity: 2,300 pounds of resin and foam insulation per hour or 360 doors per hour.
- (c) One (1) fiberglass door assembly line, identified as CDL Line, consisting of the following operations, constructed in 2009:
- (1) One (1) CDL GLG adhesive process, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SVFA-2.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts

and products surface coating facility.

- (2) One (1) CDL foam press, identified as FF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SVFF-2.

- (d) One (1) conveyORIZED coating line, identified as Breeze Line, consisting of the following operations, constructed in 2011:

- (1) Six (6) coating booths, identified as breeze booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
- (2) Two (2) manual booths, identified as breeze booths 7 through 8, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-8.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (g) One (1) spray booth coating operation, constructed in 2007 and modified in 2010, identified as Lowes Coating Line, and consisting of:

- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as TLI Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (2) Two (2) manual paint booths, identified as TLI Booths (booths 6 & 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (3) One (1) paint kitchen for mixing, handling, and storing paint.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (4) One (1) spray booth, identified as TLI-8, constructed in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (h) One (1) CD-Spray Booth, constructed in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (i) One (1) Sheet Molding Compound (SMC) Production Line, identified as SMC2, installed in 2000, capacity: 18,500 pounds of molding compound per hour, consisting of:

- (1) Two (2) resin mixers, exhausting through Stack 17.1 and/or Stack 17.2, total throughput: 8,880 pounds of calcium carbonate, 4,700 pounds of resin, 648 pounds of pigment mixture, 130 pounds of release agent, and 74 pounds of catalyst per hour.

Under 40 CFR 63 (NESHAP), Subpart W WWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (2) One (1) sheet molding compound extruder, exhausting through Stack 17.1 and/or Stack 17.2, throughput 14,432 pounds of materials plus 4,070 pounds of chopped fiberglass strands per hour.

Under 40 CFR 63 (NESHAP), Subpart W WWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (j) One (1) molding compound (FMC) production operation, identified as FMC Machine, approved in 2014 for construction, capacity: 3,750 pounds of FMC per hour or 90,000 pounds of FMC per day, uncontrolled, exhausting to stack S-1, and consisting of:

- (1) Three (3) resin storage totes, with a maximum storage capacity of 330 gallons each;
- (2) Three (3) resin transfer pumps;
- (3) One (1) resin mixer (Shar);
- (4) One (1) resin mixer (FMC); and
- (5) One (1) extruder

Under 40 CFR 63 (NESHAP), Subpart W WWW, these emission units are considered a molding compound (FMC) manufacturing operation.

- (k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.

- (t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour each and a combined total of 4,826 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (w) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

(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 2-7-5(1)] [326 IAC 2-2]

D.5.1 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the total sum of VOC usage (including coatings, dilution solvents, and cleaning solvents) at the coating facilities identified as D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BPO2-9, Breeze Line (booths 1-8), and FA-2, the two (2) foaming operations (FF-2 and SF-2), and the one (1) foam injection system (D2-F1), and VOC emissions from the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder and from the SMC Presses 1 through 29 and the Molding Compound Production Operation (FMC) consisting of two (2) resin mixers and one (1) FMC extruder shall be limited such that the VOC emissions shall not exceed 241.0 tons per twelve (12) consecutive months period with compliance determined at the end of each month.

Compliance with this limit, combined with the potential to emit VOC from all other emission units at this source, shall limit the source-wide total potential to emit of VOC to less than 250 tons per 12 consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

Compliance Determination Requirements

D.5.2 Volatile Organic Compounds (VOC)

(a) In order to comply with Condition D.5.1, the Permittee shall determine VOC usage (including coatings, dilution solvents, and cleaning solvents) for each twelve (12) consecutive months period at each of the following coating facilities: D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BPO2-9, FA-2, and Breeze Line (booths 1-8). The VOC usage for each of these facilities shall equal the VOC emissions.

(b) In order to comply with Condition D.5.1, the VOC emissions from the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder shall be determined by the following equation:

$$\text{VOC} = [(\text{SMC}_{\text{UM}} * \text{EF}_{\text{M}}) + (\text{SMC}_{\text{UE}} * \text{EF}_{\text{E}})] * (1/2,000 \text{ lbs/ton})$$

Where:

VOC = tons of VOC emitted for the previous 12 consecutive month period
SMC_{UM} = tons of SMC used in the 2 resin mixers in the previous 12 months
EF_M = 0.19 lbs of VOC emitted per ton of SMC used
SMC_{UE} = tons of SMC used in the extruder in the previous 12 months
EF_E = 0.30 lbs of VOC emitted per ton of SMC used

(c) In order to comply with Condition D.5.1, the VOC emissions from the SMC and FMC Presses 1 through 29 shall be determined by the following equation:

$$\text{VOC} = (\text{SMC}_{\text{UP}} * \text{SMC}\%_{\text{VOC}}/100 * \text{EF}_{\text{P}}/100) + (\text{FMC}_{\text{UP}} * \text{FMC}\%_{\text{VOC}}/100 * \text{EF}_{\text{P}}/100)$$

Where:

VOC = tons of VOC emitted for the previous 12 consecutive month period
SMC_{UP} = tons of SMC used in the 29 SMC and FMC presses in the previous 12 months
SMC_{VOC} = percent by weight VOC content of the SMC used
FMC_{UP} = tons of FMC used in the 29 SMC and FMC presses in the previous 12 months
FMC_{VOC} = percent by weight VOC content of the FMC used
EF_P = 3.0 percent of VOC emitted

(d) In order to comply with Condition D.5.1, the VOC emissions from the Molding Compound Production Operation (FMC Machine) consisting of two (2) resin mixers and one (1) FMC extruder shall be determined by the following equation:

$$\text{VOC} = [(\text{FMC}_{\text{UM}} * \text{EF}_{\text{M}}) + (\text{FMC}_{\text{UE}} * \text{EF}_{\text{E}})] * (1/2,000 \text{ lbs/ton})$$

Where:

VOC = tons of VOC emitted for the previous 12 consecutive month period
FMC_{UM} = tons of FMC used in the 2 resin mixers in the previous 12 months
EF_M = 0.04 lbs of VOC emitted per ton of FMC used
FMC_{UE} = tons of FMC used in the extruder in the previous 12 months
EF_E = 0.20 lbs of VOC emitted per ton of FMC used

- (e) In order to comply with Condition D.5.1, the VOC emissions from the the two (2) foaming operations (FF-2 and SF-2) and one (1) foam injection system (D2-F1) shall be determined by the following equation:

$$\text{VOC} = [(\sum F_{\text{MDI}} * EF_F * (1/1,000,000 \text{ lb/MMlbs})) + (\sum F * \text{BA}\% / 100 * \% \text{VOC} / 100 * EF_R / 100)] * (1/2,000 \text{ lb/ton})$$

Where:

VOC =	tons of VOC emitted for the previous 12 consecutive month period
F =	pounds of foam used in the foaming operations (FF-2 and SF-2) in the previous 12 months
EF _F =	0.67 lbs of VOC emitted per million pounds of foam used
F =	pounds of foam used in the foaming operations (FF-2 and SF-2) and foam injection system (D2-F1) in the previous 12 months
BA% =	6.0 percent by weight of blowing agent in foam
%VOC =	100 percent by weight VOC content of blowing agent
EF _R =	5.0 percent of VOC emitted

D.5.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

In order to comply with Condition D.5.1, the VOC content and usage of the foaming agents and coating material (including coatings, dilution solvents, and cleaning solvents) used at the coating facilities identified as D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BPO2-9, Breeze Line (booths 1-8), and FA-2, the two (2) foaming operations (FF-2 and SF-2), the one (1) foam injection system (D2-F1) shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.4 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.5.1, D.5.2, and D.5.3 the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to determine the VOC usage as required in Condition D.5.1 for the coating facilities identified as D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BPO2-9, Breeze Line (booth 1-8), and FA-2, the two (2) foaming operations (FF-2 and SF-2), the one (1) foam injection system (D2-F1). Records necessary to determine the VOC usage as required in Condition D.5.1 shall be available within 30 days of the end of each compliance period.

- (1) The VOC content of each coating material, foaming agents and solvent used.
- (2) The amount of coating material, foaming agents and solvent used on monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
- (3) The total VOC usage for each month.

- (4) The total VOC usage for each compliance period.
- (b) To document the compliance status with Conditions D.5.1 and D.5.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to determine the VOC emissions as required in Condition D.5.1 for the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder and from the SMC Presses 1 through 29. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The total SMC throughput at Presses 1 through 29 and SMC2 (mixers and extruder) each month.
 - (2) The VOC content of each SMC material used at Presses 1 through 29 and SMC2 (mixers and extruder).
 - (3) The weight of VOCs emitted for each compliance period.
 - (c) To document the compliance status with Conditions D.5.1 and D.5.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to determine the VOC emissions as required in Condition D.5.1 for the Molding Compound Production Operation (FMC Machine) consisting of two (2) resin mixers and one (1) FMC extruder. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The total FMC throughput at FMC Machine (mixers and extruder) each month.
 - (2) The VOC content of each FMC material used at FMC Machine (mixers and extruder).
 - (3) The weight of VOCs emitted for each compliance period.
 - (d) Section C - General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this condition.

D.5.5 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.5.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS - NESHAP [40 CFR 63, Subpart MMMM]

Emissions Unit Description: Door Assembly

- (a) One (1) steel door assembly line, identified as ADL Line, consisting of the following operations, constructed in 2009:
- (1) One (1) ADL paint line, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.

Under 40 CFR 63 (NESHAP), Subpart MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
 - (2) One (1) ADL GLG adhesive process, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.

Under 40 CFR 63 (NESHAP), Subpart MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
 - (3) One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.

Under 40 CFR 63 (NESHAP), Subpart MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
- (d) One (1) conveyORIZED coating line, identified as Breeze Line, consisting of the following operations, constructed in 2011:
- (1) Six (6) coating booths, identified as breeze booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
 - (2) Two (2) manual booths, identified as breeze booths 7 through 8, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-8.

Under 40 CFR 63 (NESHAP), Subpart MMMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.
- (g) One (1) spray booth coating operation, constructed in 2007 and modified in 2010, identified as Lowes Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as TLI Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (2) Two (2) manual paint booths, identified as TLI Booths (booths 6 & 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (3) One (1) paint kitchen for mixing, handling, and storing paint.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (4) One (1) spray booth, identified as TLI-8, constructed in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (h) One (1) CD-Spray Booth, constructed in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

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

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.3901, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the surface coating operations, as specified in Table 2 of 40 CFR 63, Subpart M MMM in accordance with schedule in 40 CFR 63, Subpart M MMM.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

E.1.2 Miscellaneous Metal Part and Products Surface Coating Requirements [40 CFR Part 63, Subpart M MMMM]

Pursuant to 40 CFR Part 63, Subpart M MMMM, the Permittee shall comply on and after the initial compliance date: January 2, 2007 with the following provisions of 40 CFR Part 63, Subpart M MMMM (included as 'Attachment B'), which are incorporated by reference as 326 IAC 20-80, for the facilities listed in this section:

- (1) 40 CFR 63.3880
- (2) 40 CFR 63.3881 (a)(1), (a)(2), (b), (d), and (e)
- (3) 40 CFR 63.3882
- (4) 40 CFR 63.3883 (b), and (d)
- (5) 40 CFR 63.3890 (b)(1)
- (6) 40 CFR 63.3891 (b)
- (7) 40 CFR 63.3892 (a)
- (8) 40 CFR 63.3893 (a)
- (9) 40 CFR 63.3900 (a)(1), (b)
- (10) 40 CFR 63.3901
- (11) 40 CFR 63.3910 all except (c)(8)(i)(iii) and (c)(9)
- (12) 40 CFR 63.3920 (a)(1), (a)(2), (a)(3), (a)(4), and (a)(6)
- (13) 40 CFR 63.3930 all except (c)(2)(4) and (k)
- (14) 40 CFR 63.3931
- (15) 40 CFR 63.3950
- (16) 40 CFR 63.3951
- (17) 40 CFR 63.3952
- (18) 40 CFR 63.3980
- (19) 40 CFR 63.3981
- (21) Table 2
- (22) Table 3
- (23) Table 4

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS – NESHAP [40 CFR 63, Subpart PPPP]

Emissions Unit Description: Door Assembly

- (b) One (1) Door Assembly Line, identified as BDL Line, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
- (1) One (1) BDL GLG adhesive process, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour.
- Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.
- (c) One (1) fiberglass door assembly line, identified as CDL Line, consisting of following operations, approved for construction in 2009:
- (1) One (1) CDL GLG adhesive process, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.01 gallons per steel door coating usage rate, without add-on control, and exhausting to a stack.
- Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.
- (d) One (1) conveyORIZED coating line, identified as Breeze Line, consisting of the following operations, constructed in 2011:
- (1) Six (6) coating booths, identified as breeze booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
- (2) Two (2) manual booths, identified as breeze booths 7 through 8, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-8.
- Under 40 CFR 63 (NESHAP), Subpart MMMM, these units are considered a miscellaneous metal parts and products surface coating facilities.
- Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.
- (d) One (1) conveyORIZED coating line, identified as BPO2, consisting of the following operations, approved in 2011 for construction:
- (1) Six (6) coating booths, identified as booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
- (2) Three (3) manual booths, identified as booths 7 through 9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-9.
- Under 40 CFR 63 (NESHAP), Subpart MMMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

- (g) One (1) spray booth coating operation, constructed in 2007 and modified in 2010, identified as Lowes Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as TLI Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.
- Under 40 CFR 63 (NESHAP), Subpart M MMMM, these units are considered a miscellaneous metal parts and products surface coating facilities.
- Under 40 CFR 63 (NESHAP), Subpart P P P P, these units are considered plastic parts and products surface coating facilities.
- (2) Two (2) manual paint booths, identified as TLI Booths (booths 6 & 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control.
- Under 40 CFR 63 (NESHAP), Subpart M MMMM, these units are considered a miscellaneous metal parts and products surface coating facilities.
- Under 40 CFR 63 (NESHAP), Subpart P P P P, these units are considered plastic parts and products surface coating facilities.
- (3) One (1) paint kitchen for mixing, handling, and storing paint.
- Under 40 CFR 63 (NESHAP), Subpart M MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
- Under 40 CFR 63 (NESHAP), Subpart P P P P, this unit is considered a plastic parts and products surface coating facility.
- (4) One (1) spray booth, identified as TLI-8, constructed in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control.
- Under 40 CFR 63 (NESHAP), Subpart M MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
- Under 40 CFR 63 (NESHAP), Subpart P P P P, this unit is considered a plastic parts and products surface coating facility.
- (h) One (1) CD-Spray Booth, constructed in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.
- Under 40 CFR 63 (NESHAP), Subpart M MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.
- Under 40 CFR 63 (NESHAP), Subpart P P P P, this unit is considered a plastic parts and products surface coating facility.
- (The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

E.2.1 General Provisions Relating to NESHAP PPPP [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.4480, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart PPPP in accordance with schedule in 40 CFR 63 Subpart PPPP.

E.2.2 Coating of Plastic Parts and Products NESHAP [40 CFR Part 63, Subpart PPPP]

Pursuant to 40 CFR Part 63, Subpart PPPP, the Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart PPPP (included as 'Attachment C'), which are incorporated by reference as 326 IAC 20-81, for the facilities listed in this section:

- (1) 40 CFR 63.4480
- (2) 40 CFR 63.4481 (a)(1), (a)(2), (b), and (e)
- (3) 40 CFR 63.4482
- (4) 40 CFR 63.4483 (b) and (d)
- (5) 40 CFR 63.4490 (b)(1)
- (6) 40 CFR 63.4491 (b)
- (7) 40 CFR 63.4492 (a)
- (8) 40 CFR 63.4493 (a)
- (9) 40 CFR 63.4500 (a)(2) and (b)
- (10) 40 CFR 63.4501
- (11) 40 CFR 63.4510 all except (c)(8)(i)(iii) and (c)(9)
- (12) 40 CFR 63.4520 (a)(1), (a)(2), (a)(3), (a)(4), and (a)(6)
- (13) 40 CFR 63.4530 all except (c)(2)(4) and (j)
- (14) 40 CFR 63.4531
- (15) 40 CFR 63.4550
- (16) 40 CFR 63.4551
- (17) 40 CFR 63.4552
- (18) 40 CFR 63.4580
- (19) 40 CFR 63.4581
- (20) Table 2
- (21) Table 3
- (22) Table 4
- (23) Appendix A

SECTION E.3 EMISSIONS UNIT OPERATION CONDITIONS - NESHAP [40 CFR 63, Subpart WWWW]

Facility Description [326 IAC 2-7-5(14)]: SMC and FMC Operations subject to NESHAP WWWW

- (i) One (1) Sheet Molding Compound (SMC) Production Line, identified as SMC2, installed in 2000, capacity: 18,500 pounds of molding compound per hour, consisting of:
 - (1) Two (2) resin mixers, exhausting through Stack 17.1 and/or Stack 17.2, total throughput: 8,880 pounds of calcium carbonate, 4,700 pounds of resin, 648 pounds of pigment mixture, 130 pounds of release agent, and 74 pounds of catalyst per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
 - (2) One (1) sheet molding compound extruder, exhausting through Stack 17.1 and/or Stack 17.2, throughput 14,432 pounds of materials plus 4,070 pounds of chopped fiberglass strands per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (j) One (1) molding compound (FMC) production operation, identified as FMC Machine, approved in 2014 for construction, capacity: 3,750 pounds of FMC per hour or 90,000 pounds of FMC per day, uncontrolled, exhausting to stack S-1, and consisting of:
 - (1) Three (3) resin storage totes, with a maximum storage capacity of 330 gallons each;
 - (2) Three (3) resin transfer pumps;
 - (3) One (1) resin mixer (Shar);
 - (4) One (1) resin mixer (FMC); and
 - (5) One (1) extruder
Under 40 CFR 63 (NESHAP), Subpart WWWW, these emission units are considered a molding compound (FMC) manufacturing operation.
- (k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.

- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour.
- Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour each and a combined total of 4,826 pounds of SMC or FMC per hour.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

- (w) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

Insignificant Activities

- (c) Four (4) five thousand (5,000) gallon tanks storing urethane system resin component with VOC emissions less than 3 lb/hr and 15 lbs/day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (d) Three (3) five thousand (5,000) gallon tanks storing polymethylene polyphenylisocyanate (poly) with VOC emissions less than 3 lb/hr and 15 lbs/day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (e) Six (6) above ground resin storage tanks, identified as Tanks 1 through 6, exhausting through stack 17.1 and/or stack 17.2 capacity: 10,000 gallons each, throughput 4,700 pounds of resin per hour with VOC emissions less than three (3) pounds per hour and fifteen (15) pounds per day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (f) Five (5) resin holding tanks consisting of two (2) tanks, identified as A Side-Tank 1 and A Side-Tank 2 capacity: 1,500 gallons of resin each, and three (3) tanks, identified B Side-1 through B Side-3, capacity: 80 gallons of resin, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage. Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

- (g) One (1) 6,300-gallon tank storing polymethylene polyphenylisocyanate (poly) with VOC emissions less than 3 lb/hr and 15 lbs/day.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered HAP-containing materials storage.

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

E.3.1 General Provisions Relating to NESHAP WWWW [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.5925, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Table 15 of 40 CFR Part 63, Subpart WWWW in accordance with the schedule in 40 CFR 63 Subpart WWWW.

E.3.2 NESHAP WWWW Requirements [40 CFR Part 63, Subpart WWWW]

Pursuant to CFR Part 63, Subpart WWWW, the Permittee shall comply with the following provisions (included as 'Attachment A'), which are incorporated by reference as 326 IAC 20-56, for the Sheet Molding Compound (SMC) Production Line, identified as SMC2, the SMC presses (Presses 1 through 9 and 11 through 29), the Molding compound (FMC) Production Operation, identified as FMC Machine, and equipment cleaning, cleaning of materials used in reinforced plastic composites manufacture, mixing, and HAP-containing material storage:

- (1) 40 CFR 63.5780
- (2) 40 CFR 63.5785 (a)
- (3) 40 CFR 63.5790 (a), (b) and (c)
- (4) 40 CFR 63.5795 (a)(1) and (a)(2), (b)
- (5) 40 CFR 63.5797 (a), (b) and (c)
- (6) 40 CFR 63.5800
- (7) 40 CFR 63.5805 (a), (b) and (g)
- (8) 40 CFR 63.5835 (a) and (c)
- (9) 40 CFR 63.5840
- (10) 40 CFR 63.5860 (a)
- (11) 40 CFR 63.5900 (a)(4), (b) and (c)
- (12) 40 CFR 63.5905
- (13) 40 CFR 63.5910 (a), (b), (c)(1) through (c)(5), (d), (g), (h) and (i)
- (14) 40 CFR 63.5915 (a) and (d)
- (15) 40 CFR 63.5920
- (16) 40 CFR 63.5925
- (17) 40 CFR 63.5930
- (18) 40 CFR 63.5935

SECTION E.4

FACILITY OPERATION CONDITIONS

Emissions Unit Description:

- (j) One (1) natural gas-fired reciprocating emergency generator, identified as EG-1 rated at fifty (50) kW (~67 HP), (ordered in October 2010), and approved in 2010 for construction.

This four-stroke rich-burn natural gas generator, identified as EG-1, is considered an affected facility under the NSPS for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60, Subpart JJJJ) and a new stationary reciprocating internal combustion engine at a major source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ).

- (k) One (1) diesel fuel-fired compression ignition emergency generator for fire suppression system, identified as EG-2 rated at fifty (350) kilowatt (kW) (~469.2 HP), installed and manufactured in 2005.

EG-2, is considered an existing stationary reciprocating internal combustion engine at a major source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ).

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 2-7-5(1)]

E.4.1 National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ][326 IAC 20-82]

The Permittee, which owns or operates stationary Reciprocating Internal Combustion Engines, shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ, which are incorporated by reference as 326 IAC 20-82:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(2)(ii) and (c) (EG-1 only)
- (4) 40 CFR 63.6590(a)(1)(ii) and (c) (EG-2 only)
- (5) 40 CFR 63.6595(a)(5)
- (6) 40 CFR 63.6665
- (7) 40 CFR 63.6670
- (8) 40 CFR 63.6675

The entire text of 40 CFR 63, Subpart ZZZZ, is included as Attachment D of this permit.

New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ] [326 IAC 2-7-5(1)]

E.4.2 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, except when otherwise specified in 40 CFR Part 60, Subpart JJJJ.

E.4.3 New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines [326 IAC 12] [40 CFR Part 60, Subpart JJJJ]

The Permittee, which owns or operates a stationary spark ignition internal combustion engine, identified as EG-1 shall comply with the following provisions of 40 CFR Part 60, Subpart JJJJ, which are incorporated by reference as 326 IAC 12:

- (1) 40 CFR Part 60.4230
- (2) 40 CFR Part 60.4233
- (3) 40 CFR Part 60.4234
- (4) 40 CFR Part 60.4236
- (5) 40 CFR Part 60.4237
- (6) 40 CFR Part 60.4243
- (7) 40 CFR Part 60.4244
- (8) 40 CFR Part 60.4245
- (9) 40 CFR Part 60.4246
- (10) 40 CFR Part 60.4248
- (11) Table 1
- (12) Table 2
- (13) Table 3

The entire text of 40 CFR 60, Subpart JJJJ, is included as Attachment F of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Therma Tru Corporation
Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
Part 70 Permit No.: T 033-30711-00019

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Therma Tru Corporation
Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
Part 70 Permit No.: T 033-30711-00019

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><input type="checkbox"/> The Permittee must notify the Office of Air Quality (OAQ), no later than four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and<input type="checkbox"/> The Permittee must submit notice in writing or by facsimile no later than two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16. |
|--|

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Therma Tru Corporation
Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
Part 70 Permit No.: T 033-30711-00019
Facilities: Lowes Coating Line
Parameter: Input of VOC
Limit: Total VOC input including coatings, dilution solvents, and cleaning solvents for the Lowes Coating Line shall be less than a total of twenty-five (25) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Input of VOC (tons)	Input of VOC (tons)	Input of VOC (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Therma Tru Corporation
Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
Part 70 Permit No.: T 033-30711-00019
Facilities: Lowes Coating Line and CD-3
Parameter: PM / PM₁₀ Emissions
Limit: Total PM / PM₁₀ emissions for the Lowes Coating Line and CD-3 shall be less than a total of fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	PM / PM-10 Emissions (tons)	PM / PM-10 Emissions (tons)	PM / PM-10 Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Therma Tru Corporation
 Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
 Part 70 Permit No.: T 033-30711-00019
 Facilities: D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BPO2-9, Breeze Line (booths 1-8), FA-2, the two (2) foaming operations (FF-2 and SF-2), and the one (1) foam injection system (D2-F1), SMC Presses 1 through 29 and SMC2 (mixers and extruder), and FMC Machine (mixers and extruder).
 Parameter: The total sum of VOC usage (including coatings, dilution solvents, and cleaning solvents) at the coating facilities D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BPO2-9, Breeze Line (booths 1-8), FA-2, the two (2) foaming operations (FF-2 and SF-2), and the one (1) foam injection system (D2-F1), and VOC emissions from SMC Presses 1 through 29, SMC2 (mixers and extruder) and FMC Machine (mixers and extruder).
 Limit: 241 tons per twelve (12) consecutive month period

QUARTER: _____ YEAR: _____

Month	Total Input of VOC to the coating facilities D2-APP1, Lowes Coating Line (booths 1- 8), CD-3, SP-2, SA-2, BPO2-9, FA-2, and Breeze Line (booths 1-8) (tons)		Total VOC emissions from the SMC Presses 1 through 29 and SMC2 (mixers and extruder), FMC Machine (mixers and extruder), and FF-2, SF-2, and D2-F1 (tons)		VOC Emissions (tons)
	This Month	Previous 11 Months	This Month	Previous 11 Months	12 Month Total
	A	B	C	D	=A+B+C+D

- No deviation occurred in this quarter.
- Deviation/s occurred in this month.
 Deviation has been reported on: _____

Submitted by: _____
 Title/Position: _____
 Signature: _____
 Date: _____
 Phone: _____

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

Part 70 Quarterly Report

Source Name: Therma Tru Corporation
Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
Part 70 Permit No.: T 033-30711-00019
Facilities: Lowes Coating Line (Booths 1-8), SP-2, BPO2-9, Breeze Line (booths 1-8), and CD-3
Parameter: PM, PM10, and PM2.5 Emissions
Limit: Shall not exceed 78 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	PM, PM10, and PM2.5 Emissions (tons)	PM, PM10, and PM2.5 Emissions (tons)	PM, PM10, and PM2.5 Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

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

**PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Therma Tru Corporation
Source Address: 601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
Part 70 Permit No.: T 033-30711-00019

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attachment E

Part 70 Operating Permit Renewal No. T033-30711-00019

Reserved

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Part 70 Significant Source and
Significant Permit Modification**

Source Description and Location

Source Name:	Therma Tru Corporation
Source Location:	601 RE Jones Road and 2724 County Road 75, Butler, Indiana 46721
County:	DeKalb
SIC Code:	3089 (Plastic Products, Not Elsewhere Classified) and 3442 (Metal Doors, Sash, Frames, Molding, and Trim Manufacturing)
Operation Permit No.:	T 033-30711-00019
Operation Permit Issuance Date:	February 3, 2012
Significant Source Modification No.:	033-34988-00019
Significant Permit Modification No.:	033-34996-00019
Permit Reviewer:	Brian Williams

Source Definition

This stationary stationary metal and fiberglass entry door manufacturing source consists of two (2) plants:

- (a) Plant 1 is located at 601 RE Jones Road, Butler, Indiana; and
- (b) Plant 2 is located at 2724 County Road 75, Butler, Indiana.

These plants are located on adjacent properties, have the same two-digit SIC Code of 30, have a support relationship, and are under common ownership and control; therefore they will be considered one (1) major source, as defined by 326 IAC 2-7-1(22). This conclusion was initially determined under Significant Permit Modification No. 033-34161-00019, issued on June 11, 2014.

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 033-30711-00019 on February 3, 2012. The source has since received the following approvals:

- (a) Significant Source Modification No. 033-31962-00019 issued on August 15, 2012;
- (b) Significant Permit Modification No. 033-31988-00019 issued on August 31, 2012, and
- (c) Significant Permit Modification No. 033-34161-00019 issued on June 11, 2014.

County Attainment Status

The source is located in DeKalb County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

- (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. DeKalb 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) **PM_{2.5}**
DeKalb County has been classified as attainment for PM_{2.5}. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011, the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective June 28, 2011. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
DeKalb County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Source Status - Existing Source

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

Pollutant	Emissions (ton/yr)
PM	243.5
PM ₁₀	245.6
PM _{2.5}	245.6
SO ₂	0.31
NO _x	38.2
VOC	249.2
CO	31.5
HAPs	
Single HAP	>10
Total	>25

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant, excluding GHGs, is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).
- (c) These emissions are based upon the TSD to Significant Permit Modification No. 033-34161-00019, issued on June 11, 2014.
- (d) GHG
 On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Therma Tru Corporation on October 2, 2014, relating to the following changes:

1. To construct and operate four (4) new closed molding fiberglass SMC presses. The new presses will be identified as SMC Press 26, 27, 28, and 29, will be uncontrolled, and vent inside. These presses will be similar to the existing SMC presses. The source has requested to include the VOC emissions from the new presses in the existing PSD minor limit for VOC emissions.
2. To construct and operate one (1) new CNC machining unit identified as CNC-2. The particulate emissions from the new CNC machining unit will be controlled by the existing dust collector, formerly identified as DC4, and exhaust to existing stack DC4-1. The source has requested to increase the PM and PM10 limit for dust collector DC4 from 1.53 pounds per hour to 1.63 pounds per hour for each pollutant. The facility wide PM and PM10 emissions will remain below PSD major source thresholds. Since this source is minor under PSD, the permit will also be revised to include direct PM2.5 limits since PM10 is no longer a surrogate for direct PM2.5.

Note: Dust collector, formerly identified as DC4, will now be identified as DC6.

3. To notify IDEM that the three (3) existing deflashing stations, identified as DF-1, DF-2, and DF-3 have been removed from the source.
4. To revise the descriptive information for several existing emission units to match the source's internal identification system (See proposed changes section for detailed changes). There are no changes to the PTE and applicable requirements due to these description changes.
5. To notify IDEM that the existing manual booth, identified as booth 9, is being used as a repair booth for the steel door assembly line (A-Line). This booth was originally permitted to be a support operation for the automatic conveyorized coating line (BP02 coating line) that would be used for small volume color coatings to minimize change over time. However, the booth was not needed for the BPO operations for the infrequent color doors and was moved to the A line for door repair. This change will not increase the potential to emit PM, PM10, PM2.5, VOC, or total HAPs. Due to this change the potential to emit glycol ethers increased by 1.49 tons per year.

The following is a list of the proposed emission units and pollution control device(s):

- (a) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1,067 pounds of SMC or FMC per hour, each.

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.
- (b) One (1) CNC operation for machining hinges, slots, lock openings, and window openings in doors, approved in 2015 for construction, identified as CNC-2, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour. CNC-2 is connected to dust collector DC6 and exhausting to stack DC6-1.

The following is a list of the existing emission units and pollution control device (s) that have been removed from the source:

- (a) One (1) deflashing station, identified as DF-1, approved for installation in 2006, equipped with a cartridge dust collector for particulate control, exhausted inside the building, capacity: 720 fiberglass door skins per hour or 13,680 pounds per hour.
- (b) One (1) deflashing station, identified as DF-2, installed in 2009, equipped with a cartridge dust collector for particulate control, exhausting inside the building, capacity: 720 fiberglass door skins per hour or 13,680 pounds per hour.
- (c) One (1) deflashing station, identified as DF-3, constructed in 2010, with a maximum throughput capacity of 13,680 pounds per hour, equipped with a cartridge dust collector for particulate control, exhausting to stack CY-2.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70 Modification to an Existing Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Increase in PTE Before Controls of the Modification*	
Pollutant	Potential To Emit (ton/yr)
PM	43.36
PM ₁₀	43.36
PM _{2.5}	43.36
SO ₂	0
NO _x	0
VOC	61.13
CO	0
Single HAPs (Styrene)	61.13
Total HAPs	61.13
*PTE of the four (4) SMC presses (26 through 29) and the one (1) CNC operation (CNC-2).	

PTE Change of the Modified Process – BPO2-9			
Pollutant	PTE Before Modification (ton/yr)	PTE After Modification (ton/yr)	Increase from Modification (ton/yr)
PM	22.96	11.29	0
PM ₁₀	22.96	11.29	0
PM _{2.5}	22.96	11.29	0
SO ₂	0	0	0
VOC	6.69	2.72	0
CO	0	0	0
NO _x	0	0	0
Single HAP – Glycol Ether	0.08	1.57	1.49
Total HAPs	1.68	1.57	0

Total PTE Increase due to the Modification			
Pollutant	PTE New Emission Units (ton/yr)	Net Increase to PTE of Modified Emission Units (ton/yr)	Total PTE for New and Modified Units (ton/yr)
PM	43.36	0	43.36
PM ₁₀	43.36	0	43.36
PM _{2.5}	43.36	0	43.36
SO ₂	0	0	0
VOC	61.13	0	61.13
CO	0	0	0
NO _x	0	0	0
Single HAP – Glycol Ether	0	1.49	1.49
Single HAP – Styrene	61.13	0	61.13
Total HAPs	61.13	0	61.13

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

(a) Approval to Construct

This source modification is subject to 326 IAC 2-7-10.5(g)(4)(A) because the potential to emit PM, PM₁₀, and direct PM_{2.5} is greater than twenty-five (25) tons per year before control.

In addition, this source modification is subject to 326 IAC 2-7-10.5(g)(4)(D) because the potential to emit VOC is greater than twenty-five (25) tons per year before control.

Finally, this source modification is subject to 326 IAC 2-7-10.5(g)(6) because the potential to emit any single HAP is greater than ten (10) tons per year before control and the potential to emit any combination of HAPs is greater than twenty-five (25) tons per year before control.

(b) Approval to Operate

This modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because the modification involves significant changes in permit terms or conditions (such as a case by case determination of emission limitations, addition of testing requirements and compliance monitoring).

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process / Emission Unit	Project Emissions (ton/yr)						
	PM	PM ₁₀	PM _{2.5} *	SO ₂	NO _x	VOC	CO
SMC Presses (26 through 29)	0	0	0	0	0	61.13	0
CNC Operation (CNC-2)	43.36	43.36	43.36	0	0	0	0
Total for Modification	43.36	43.36	43.36	0	0	61.13**	0
PSD Major Source Thresholds	250	250	250	250	250	250	250

*PM_{2.5} listed is direct PM_{2.5}.

** These VOC emissions will be included in the existing PSD minor VOC limit to maintain the PSD minor status of the source.

This modification to an existing minor PSD stationary source is not major because the emissions increase of each PSD regulated pollutant are less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

PTE of the Entire Source After Issuance of the Modification

The table below summarizes the potential to emit of the entire source after issuance of this modification, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Modification (tons/year)									
	PM	PM10 ¹	PM2.5 ¹	SO ₂	NO _x	VOC ²	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
Coating Operations - SP-2, ADL Repair, Breeze Booth Line (1-8), Lowes Line (1-8) ³ , CD-3	78.00	78.00	78.00	0	0	241.0	0	0	125.4	72.1 Glycol Ethers
ADL GLG Adhesive (SA-2)	0	0	0	0	0		0	0	79.70	78.68 Toluene
BDL GLG Adhesive (D2-APP1)	0	0	0	0	0		0	0	22.79	22.62 MDI
CDL GLG Adhesive (FA-2)	0	0	0	0	0		0	0	12.08	11.92 Toluene
ADL, BDL, & CDL Foam Presses (SF-2, D2-F1, & FF-2)	0	0	0	0	0		0	0	0.02	0.02 MDI
SMC Production Line - Mixers & Extruder	0	0	0	0	0		0	0	19.85	19.85 Styrene
SMC Presses - 1 through 29	0	0	0	0	0		0	0	426.22	426.22 Styrene

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Modification (tons/year)									
	PM	PM10 ¹	PM2.5 ¹	SO ₂	NOx	VOC ²	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
FMC Production Operation - Mixers & Extruder	0	0	0	0			0	0	2.69	2.69 Styrene
SMC Production Line - Silos	1.50	1.50	1.50	0	0	0	0	0	0	0
SMC Production Line - Resin Storage & Holding	0	0	0	0	0	2.46	0	0	2.46	2.46 Styrene
SMC Production Line - Dry Additive Mixer	0.04	0.04	0.04	0	0	0	0	0	0	0
FMC Production Operation - Raw Material Handling	1.64	1.64	1.64	0	0	0	0	0	0	0
FMC Production Operation - Resin Storage & Holding	0	0	0	0	0	0.33	0	0	0.33	0.33 Styrene
ADL DMC (EU4)	70.82	70.82	70.82	0	0	0	0	0	0	0
BDL DMC (D2-MS1)	11.13	11.13	11.13	0	0	0	0	0	0	0
BDL OLB (D2-MS1-1)	7.88	7.88	7.88	0	0	0	0	0	0	0
Thermwood 1 (PA-2), New KVAL (CO-3), C.R. Onsrud #1 (CNC-1) (DC5)	2.73	2.73	2.73	0	0	0	0	0	0	0
C.R. Onsrud #2 (PA-1), Auto KVAL, Cut out next, & C12 (CO-1, CO-2, & CO-4), Misc. TLI Machine, & CNC-2 (DC6)	7.15	7.15	7.15	0	0	0	0	0	0	0
D-Saw (DCS-1)	2.81	2.81	2.81	0	0	0	0	0	0	0
F-Saw (DCS-2)	1.41	1.41	1.41	0	0	0	0	0	0	0
CDL DMC (FDMC-2A)	11.13	11.13	11.13	0	0	0	0	0	0	0
CDL OLB (FDMC-2B)	7.88	7.88	7.88	0	0	0	0	0	0	0
Miscellaneous Sawing/Trimming (MS-2)	2.14	2.14	2.14	0	0	0	0	0	0	0
ADL OLB (SDMC-2A)	7.88	7.88	7.88	0	0	0	0	0	0	0
ADL OLB (SDMC-2B)	0.44	0.44	0.44	0	0	0	0	0	0	0
TLI Cutout (TLI Cutout)	15.02	15.02	15.02	0	0	0	0	0	0	0

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Modification (tons/year)									
	PM	PM10 ¹	PM2.5 ¹	SO ₂	NOx	VOC ²	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
TLI Miscellaneous Sawing/Trimming	7.88	7.88	7.88	0	0	0	0	0	0	0
Fiberglass Skin Cut Down Saws (FS-1)	0.11	0.11	0.11	0	0	0	0	0	0	0
Fiberglass Skin Cut Down Saws (FS-2)	0.25	0.25	0.25	0	0	0	0	0	0	0
Fiberglass Skin Cut Down Saws (FS-3)	0.25	0.25	0.25	0	0	0	0	0	0	0
Sanding Booth (FS-4)	0.25	0.25	0.25	0	0	0	0	0	0	0
Cold Cleaner	0	0	0	0	0	1.28	0	0	0	0
Emergency Generator (EG-1)	0.001	0.003	0.003	negl.	0.29	0.004	0.49	18.78	negl.	negl.
Emergency Generator (EG-2)	0.09	0.09	0.09	0.09	1.32	0.11	0.28	49.14	negl.	negl.
Natural Gas Combustion	0.70	2.78	2.78	0.22	36.60	2.01	30.74	44,182	0.69	0.66 Hexane
Storage Tank (T001)	0	0	0	0	0	2.01	0	0	0	0
Total PTE of Entire Source	239.2	241.3	241.3	0.31	38.2	249.2	31.5	44,250	692.1	451.6 Styrene
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds	100	100	100	100	100	100	100	100,000	NA	NA
negl. = negligible ¹ Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". ² Compliance with this limit renders the requirements of 326 IAC 2-2 (PSD) not applicable ³ Limited pursuant to 326 IAC 2-2 (PSD) and 326 IAC 8-1-6 (BACT)										

This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be limited to less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

In order to continue to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the source shall comply with the following:

- (a) The PM emissions from dust collector DC6, which controls PA-1, CO-1, CO2, CO-4, TLI Misc., and CNC-2 shall not exceed 1.63 pounds per hour.
- (b) The PM10 emissions from dust collector DC6, which controls PA-1, CO-1, CO2, CO-4, TLI Misc., and CNC-2 shall not exceed 1.63 pounds per hour.

Note: Due to this modification the existing PM and PM10 emission limits for dust collector DC6 (formerly identified as DC4) have been increased from 1.53 pounds per hour to 1.63 pounds per hour. This is a Title 1 change.

- (c) The PM2.5 emissions from each facility listed in the table below shall not exceed its specified limit:

Emission Unit	PM2.5 limit (pounds per hour)
SDMC-2A	1.80
FDMC-2A	2.54
FDMC-2B	1.80
DCS-2	0.32
MS-2	0.49
SDMC-2B	0.10
SMCDM-1	0.01
D2-MS1	2.54
D2-MS1-1	1.8
PA-1	0.067
EU4	16.17
DCS-1	0.64
TLI Cut Out	3.43
PA2, CO-3, CNC-1 (dust collector DC5)	0.62
PA-1, CO-1, CO-2, CO-4, TLI Misc., & CNC-2 (dust collector DC6)	1.63
SILO1	0.17
SILO2	0.17
Grinding and machining operations	1.80
FS-1	0.026
FS-2	0.057
FS-3	0.057
FS-4	0.057

Note: These are new limits since PM2.5 is now a regulated pollutant and PM10 is no longer a surrogate of PM2.5. Therefore, IDEM must include separate PM2.5 emission limits, since this source wishes to remain a PSD minor source for PM2.5 emissions.

- (d) The total PM2.5 emissions from the surface coating facilities listed in the table below shall not exceed 78 tons per twelve (12) consecutive month period.

Process	Emission Unit ID
Lowes Coating Line (Formerly TLI Coating Line)	Booth 1-8
ADL Paint Line (Formerly A-Line)	SP-2
ADL Repair (Formerly Booth 9 in BPO2 Line)	BPO2-9
Breeze Booth Line (Formerly BPO2 Line)	Booths 1 through 8
CD-Spray Booth	CD-3

Note: This is a new limit since PM2.5 is now a regulated pollutant and PM10 is no longer a surrogate of PM2.5. Therefore, IDEM must include separate PM2.5 emission limits, since this source wishes to remain a PSD minor source for PM2.5 emissions.

- (e) The total sum of VOC usage (including coatings, dilution solvents, and cleaning solvents) at the coating facilities identified as D2-APP1, Lowes Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, BP02-9, Breeze Booth Line (booths 1-8), and FA-2, the three (3) foam presses (SF-2, D2-F1, and FF-2), and VOC emissions from the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder and from the SMC Presses 1 through 29 and the Molding Compound Production Operation (FMC Machine) consisting of two (2) resin mixers and one (1) FMC extruder shall be limited such that the VOC emissions shall not exceed 241.0 tons per twelve (12) consecutive months period with compliance determined at the end of each month.

Note: Due to this modification this existing VOC emission limit was revised to include the four (4) new SMC presses, identified as 26 through 29. The source will continue to limit the VOC emissions to not exceed 241 tons per year from the processes listed above. This is a Title 1 change.

Compliance with this limit, combined with the potential to emit PM, PM10, PM2.5 and VOC from all other emission units at this source, shall limit the source-wide total potential to emit of PM, PM10, PM2.5, and VOC to less than 250 tons per 12 consecutive month period, each and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

NSPS:

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

NESHAP:

- (b) The new SMC presses (26 through 29) are subject to the National Emission Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production (40 CFR 63, Subpart WWWW) (326 IAC 20-56), because these presses manufacture reinforced plastic composites products at a major source of HAPs. The emission units subject to this rule include the following:
- (1) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.

Applicable portions of the NESHAP are the following:

- (1) 40 CFR 63.5780
- (2) 40 CFR 63.5785(a)
- (3) 40 CFR 63.5790(a), (b) and (c)
- (4) 40 CFR 63.5795(a)(1) and (a)(2), (b)
- (5) 40 CFR 63.5797(a), (b) and (c)
- (6) 40 CFR 63.5800
- (7) 40 CFR 63.5805(a), (b) and (g)
- (8) 40 CFR 63.5835(a) and (c)
- (9) 40 CFR 63.5840

- (10) 40 CFR 63.5860(a)
- (11) 40 CFR 63.5900(a)(4), (b) and (c)
- (12) 40 CFR 63.5905
- (13) 40 CFR 63.5910(a), (b), (c)(1) through (c)(5), (d), (g), (h) and (i)
- (14) 40 CFR 63.5915(a) and (d)
- (15) 40 CFR 63.5920
- (16) 40 CFR 63.5925
- (17) 40 CFR 63.5930
- (18) 40 CFR 63.5935

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart WWWW.

- (c) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.
- (d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

CAM Applicability Analysis							
Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (ton/yr)	Controlled PTE (ton/yr)	Part 70 Major Source Threshold (ton/yr)	CAM Applicable (Y/N)	Large Unit (Y/N)
SMC Presses 26-29 (VOC)	N	-	-	-	100	N	-
SMC Presses 26-29 (HAPs)	N	-	-	-	10/25	N	-
CNC-2 (PM10)	Y	Y (326 IAC 2-2)	<100	-	100	N	-

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the new units as part of this modification.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)

PSD applicability is discussed under the Permit Level Determination – PSD section.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

Pursuant to 326 IAC 2-4.1-1(b)(2), the requirements of 326 IAC 2-4.1-1 do not apply to a major source specifically regulated, or exempt from regulation, by a standard issued pursuant to Section 112(d), 112(h), or 112(j) of the CAA. This source is subject to 40 CFR 63, Subparts M, M, M, M, P, P, P, P, and W, W, W, W.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the CNC operation (CNC-2) shall not exceed 2.53 pounds per hour when operating at a process weight rate of 0.49 tons per hour (975 pounds per hour). The pound per hour limitation was calculated with the following equation:

- (a) 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:

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

The dust collector (DC6) shall be in operation at all times CNC-2 is in operation, in order to comply with this limit.

326 IAC 8-1-6 (New Facilities; general reduction requirements)

The proposed SMC presses will be constructed after January 1, 1980 and each press has potential VOC emissions less than twenty-five (25) tons per year. In addition, the presses are regulated by 326 IAC 20-56. Therefore, the four (4) SMC presses are not subject to the requirements of 326 IAC 8-1-6.

326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

- (a) There are no testing requirements applicable to this four (4) proposed SMC presses. The source will demonstrate compliance with the VOC limits by keeping records of their total VOC usage. The source shall continue to comply with all other applicable compliance determination and monitoring requirements and permit conditions as contained in Part 70 Operating Permit Renewal No. 033-30711-00019, issued on February 3, 2012.
- (b) The testing requirements applicable to this proposed modification are as follows:

Testing Requirements				
Emission Unit	Control Device	Pollutant	Timeframe for Testing	Frequency of Testing
Machining Operating (FDMC-2A)	Baghouse	PM2.5	Five (5) years from the date of the most recent valid compliance demonstration	Once (1) every five (5) years
Online Boring Center (FDMC-2B)	Baghouse	PM2.5	Five (5) years from the date of the most recent valid compliance demonstration	Once (1) every five (5) years
CNC Thermwood (PA-2), KVAL cutout machine (CO-3), CNC operation (CNC-1)	Dust Collector DC5	PM2.5	Five (5) years from the date of the most recent valid compliance demonstration	Once (1) every five (5) years
CNC Thermwood (PA-1), KVAL cutout machines (CO-1, CO-2 & CO-4), CNC operation (CNC-2)	Dust Collector DC6	PM2.5	Five (5) years from the date of the most recent valid compliance demonstration	Once (1) every five (5) years

These emission units are currently required to test PM and PM10. However, due to the addition of the new PM2.5 emission limits the source must perform direct PM2.5 testing to demonstrate compliance with 326 IAC 2-2 (PSD). The source is required to perform the initial direct PM2.5 testing five (5) years from the date of the most recent valid compliance demonstration for the existing PM and PM10 emission limits. This is a Title 1 change.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit Renewal No. 033-30711-00019. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

- The emission unit descriptions throughout Sections A.3, A.4, D.1, D.2, D.3, D.4, D.5, E.1, E.2, and E.3 have been revised to include the new SMC presses and CNC machine and to make the changes to existing emission units as requested by the source.
- Sections D.1, D.2, D.3, and D.4 have been revised to include new PM, PM10, and PM2.5 emissions limits and compliance determination requirements.
- Condition D.1.17 has been revised to include the 326 IAC 6-3-2 allowable particulate emission rate new CNC machine.
- Section D.4 has been marked as reserved since all three (3) deflashing stations have been removed from the source.
- The existing VOC limit in Section D.5 has been revised to include the new SMC presses.

6. The existing Part 70 Quarterly Reports have been revised to require the source to report PM2.5 emissions in addition to PM and PM10 emissions.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(14)]

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

- (a) One (1) steel door assembly line, identified as ~~A-Line~~ **ADL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~enclosed spray coating operation~~ **ADL paint line**, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.
 - ...
 - (2) One (1) ~~adhesive coating operation~~ **ADL GLG adhesive process**, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.
 - ...
 - (3) One (1) ~~spray coating curing oven~~ **ADL paint oven**, identified as SCO-2, with a maximum heat input capacity of 2.0 MMBtu/hr, using only natural gas and electric power, with no add-on control, and exhausting to a stack.
 - (4) One (1) ~~foaming operation~~ **ADL foam press**, identified as SF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SF-2.1.
 - (5) One (1) **ADL OLB (boring operation)**, identified as SDMC-2A, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control ~~identified as CY-2~~, and exhausting to stack ~~SDMC-2.1~~ **CY-2**.
 - (6) One (1) **ADL OLB (end rail boring operation)**, identified as SDMC-2B, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control ~~identified as CY-2~~, and exhausting to stack ~~SDMC-2.1~~ **CY-2**.
 - (7) One (1) **ADL DMC (machining station)**, identified as EU4, installed in 1989, using a cyclone for particulate control ~~identified as CY-2~~, and exhausting to stack ~~SDMC-2.1~~ **CY-2**, capacity: 360 doors per hour and 16,200 pounds per hour, consisting of the following:
 - (A) ~~One (1) deflashing station, identified as DF-3, approved for construction in 2010, with a maximum throughput capacity of 13,680 pounds per hour, equipped with a cartridge dust collector for particulate control, exhausting to stack SDMC-2.1.~~
 - (8) **One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.**

Under 40 CFR 63 (NESHAP), Subpart M, this unit is considered a miscellaneous metal parts and products surface coating facility.
- (b) One (1) Door Assembly Line, identified as ~~B-Line~~ **BDL Line**, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:

- (1) One (1) ~~adhesive application station~~ **BDL GLG adhesive process**, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.
 - (2) One (1) ~~natural gas fired curing oven~~ **BDL flame treat process**, identified as D2-OV2, exhausting through exhausting inside the building, maximum heat input capacity of 0.25 MMBtu/hr, and capacity: 360 doors per hour.
 - (3) One (1) ~~door foam injection system~~ **BDL foam press**, identified as D2-F1, exhausting through Stack 19.1, capacity: 2,300 pounds of resin and foam insulation per hour or 360 doors per hour.
 - (4) One (1) **BDL DMC (door machining station)**, identified as D2-MS1, including an online boring center (D2-MS1-1), equipped with a baghouse and cyclone connected in series, identified as DC24, exhausting through Stack 20.1, capacity: 360 doors per hour or 18,000 pounds per hour.
 - ~~(5) One (1) deflashing station, identified as DF-1, approved for installation in 2006, equipped with a cartridge dust collector for particulate control, exhausted inside the building, capacity: 720 fiberglass door skins per hour or 13,680 pounds per hour.~~
- (c) One (1) fiberglass door assembly line, identified as ~~G-Line~~ **CDL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~adhesive coating operation~~ **CDL GLG adhesive process**, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SVFA-2.
 - ...
 - (2) One (1) ~~foaming operation~~ **CDL foam press**, identified as FF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SVFF-2.
 - (3) One (1) ~~curing oven/flame treater~~ **CDL flame treat process**, identified as FCO-2, with a maximum heat input capacity of 0.25 MMBtu/hr, using natural gas only, with no add-on control, and exhausting to a stack.
 - (4) One (1) **CDL DMC (machining operation)**, identified as FDMC-2A, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, **identified as DC3**, and exhausting to stack DC1-1.
 - (5) One (1) **CDL OLB (online boring center)**, identified as FDMC-2B, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, **identified as DC3**, and exhausting to stack DC1-1.
 - ~~(6) One (1) deflashing station, identified as DF-2, installed in 2009, equipped with a cartridge dust collector for particulate control, exhausting inside the building, capacity: 720 fiberglass door skins per hour or 13,680 pounds per hour.~~
- (d) One (1) conveyORIZED coating line, identified as ~~BPO2~~ **Breeze Line**, consisting of the following operations, ~~approved in~~ **constructed in** 2011 ~~for construction~~:
- (1) Six (6) coating booths, identified as **breeze** booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.

- (2) ~~Three~~ **Two (32)** manual booths, identified as **breeze** booths 7 through **89**, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-98.

Under 40 CFR 63 (NESHAP), Subpart Mmmm, these units are considered miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart Pppp, this unit is considered a plastic parts and products surface coating facility.

- (e) Machining centers as follows:

Connected to dust collector DC35 and exhausting to stack DC35-1:

- (1) One (1) ~~CNC~~ Thermwood 1 machining centers for Patio Doors, identified as PA-2, installed in 2006, capacity: 11.25 patio door units per hour, each.
- (2) One (1) **new** KVAL cutout machines, identified as CO-3, installed in 2000, respectively, capacity: 50 units per hour.
- (3) One (1) **C.R. Onsrud #1, this** CNC operation **is used** for machining hinges, slots, lock openings and window openings in doors, permitted in 2012, identified as CNC-1, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.

Connected to dust collector DC46 and exhausting to stack DC46-1:

- (4) One (1) **C.R. Onsrud #2, this** CNC Thermwood machining center **is used** for Patio Doors, identified as PA-1, installed in 2006, capacity: 11.25 patio door units per hour, each.
- ~~(5) Two (2) KVAL cutout machines, identified as CO-1 and CO-2, installed in 1993 and 2005, respectively, capacity: 50 units per hour, each.~~
- (5) **One (1) Auto KVAL cutout machine, identified as CO-1, installed in 1993, capacity: 50 units per hour.**
- (6) **One (1) cut out next cutout machine, identified as CO-2, installed in 1993, capacity: 50 units per hour.**
- (67) One (1) **C12** cutout machine, identified as CO-4, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 2,450 pounds per hour.
- ~~(78)~~ Miscellaneous TLI machining operations, permitted in 2010.
- (9) **One (1) CNC operation for machining hinges, slots, lock openings, and window openings in doors, approved in 2015 for construction, identified as CNC-2, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.**
- (f) One (1) ~~double cut saw~~ **D-Saw**, identified as DCS-1, installed in 2004, using a baghouse for particulate control, **identified as DC1**, exhausting to a stack DCS-2-1, capacity: 130 door skins per hour.

- (g) One (1) spray booth coating operation, ~~approved for construction~~ **constructed** in 2007 and modified in 2010, identified as ~~TLI~~ **Lowes** Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as **TLI** Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.
 - ...
 - (2) Two (2) manual paint booths, identified as TLI ~~Manual~~ Booths (booths 6 and 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control and exhausting to stacks TLI-6 and TLI-7.
 - ...
 - (4) One (1) spray booth, identified as TLI booth 8, ~~approved for construction~~ **constructed** in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control and exhausting to stack TLI-8.
 - ...
 - (5) One (1) **TLI** cutout machine, identified as TLI cutout, modified in 2010, with a maximum throughput capacity of 1,375 pounds per hour, using cyclone ~~TLI-DC-4~~ **CY-3** for particulate control.
- (h) One (1) ~~concrete door adhesive spraying operation~~ **CD-Spray Booth**, ~~approved for construction~~ **constructed** in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.
- ...
- (j) One (1) molding compound (~~MC2 FMC~~) production operation, identified as ~~MC24 FMC~~ **FMC Machine**, approved in 2014 for construction, capacity: 3,750 pounds of ~~MC2 FMC~~ per hour or 90,000 pounds of ~~MC2 FMC~~ per day, uncontrolled, exhausting to stack S-1, and consisting of:
- (4) One (1) resin mixer (~~MC2 FMC~~); and
- ...
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these emission units are considered a molding compound (~~MC2 FMC~~) manufacturing operation.
- (k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour, each.
- ...
- (l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour.
- ...
- (m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour.
- ...
- (n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or ~~MC2 FMC~~ per hour. Under 40 CFR 63 (NESHAP), Subpart WWWW, this unit is considered a sheet molding compound (SMC) manufacturing operation.
- (o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour, each.
- ...
- (p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour.

- ... (q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.
 - ... (r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.
 - ... (s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.
 - ... (t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.
 - ... (u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.
 - ... (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour each and a combined total of 4,826 pounds of SMC or ~~MC2~~ **FMC** per hour.
 - ... **(w) Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.**
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.**
- (~~wx~~) One (1) ~~double cut saw~~ **F-Saw**, identified as DCS-2, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, **identified as DC1**, and exhausting to stack DCS-2-1.
 - (~~xy~~) One (1) dry additive mixer, identified as SMCDM-1, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 33 pounds per hour, using a baghouse for particulate control, and exhausting to stack SMCDM-1.1.
 - (~~yz~~) One (1) miscellaneous sawing/trimming operation, identified as MS-2, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, **identified as DC1**, and exhausting to stack DCS-2-1.
 - (~~zaa~~) One (1) cold cleaning/degreasing operation, identified as CC-2, ~~approved for construction~~ **constructed** in 2009, with a maximum solvent usage capacity of 1 gallon per day, and venting inside the building.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- ... (b) Grinding and machining operations controlled with sock filter, fabric filters, and a cyclone (~~TLLDC-4~~ **CY-3**) with a design grain loading of less than or equal to 0.03 grains per actual cubic feet and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking. [326 IAC 6-3-2]
- ...

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Door Assembly

- (a) One (1) steel door assembly line, identified as ~~A-Line~~ **ADL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~enclosed spray coating operation~~ **ADL paint line**, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.
 - ...
 - (2) One (1) ~~adhesive coating operation~~ **ADL GLG adhesive process**, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.
 - ...
 - (3) One (1) ~~spray coating curing oven~~ **ADL paint oven**, identified as SCO-2, with a maximum heat input capacity of 2.0 MMBtu/hr, using only natural gas and electric power, with no add-on control, and exhausting to a stack.
 - (4) One (1) ~~foaming operation~~ **ADL foam press**, identified as SF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SF-2.1.
 - (5) One (1) **ADL OLB (boring operation)**, identified as SDMC-2A, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control **identified as CY-2**, and exhausting to stack ~~SDMC-2.1~~ **CY-2**.
 - (6) One (1) **ADL OLB (end rail boring operation)**, identified as SDMC-2B, with maximum throughput capacity of 16,200 pounds per hour, using a cyclone for particulate control **identified as CY-2**, and exhausting to stack ~~SDMC-2.1~~ **CY-2**.
 - (7) One (1) **ADL DMC (machining station)**, identified as EU4, installed in 1989, using a cyclone for particulate control **identified as CY-2**, and exhausting to stack ~~SDMC-2.1~~ **CY-2**, capacity: 360 doors per hour and 16,200 pounds per hour, ~~consisting of the following:~~
 - (8) **One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.**
- Under 40 CFR 63 (NESHAP), Subpart Mmmm, this unit is considered a miscellaneous metal parts and products surface coating facility.**
- (b) One (1) Door Assembly Line, identified as ~~B-Line~~ **BDL Line**, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
- (1) One (1) ~~adhesive application station~~ **BDL GLG adhesive process**, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart Pppp, this unit is considered a plastic parts and products surface coating facility.
 - ...
 - (2) One (1) ~~natural gas fired curing oven~~ **BDL flame treat process**, identified as D2-OV2, exhausting through exhausting inside the building, maximum heat input capacity of 0.25 MMBtu/hr, and capacity: 360 doors per hour.
 - (3) One (1) ~~door foam injection system~~ **BDL foam press**, identified as D2-F1, exhausting through Stack 19.1, capacity: 2,300 pounds of resin and foam insulation per hour or 360

doors per hour.

- (4) One (1) **BDL DMC (door machining station)**, identified as D2-MS1, including an online boring center (D2-MS1-1), equipped with a baghouse and cyclone connected in series, identified as ~~DC24~~, exhausting through Stack 20.1, capacity: 360 doors per hour or 18,000 pounds per hour.
- (c) One (1) fiberglass door assembly line, identified as ~~C-Line~~ **CDL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~adhesive coating operation~~ **CDL GLG adhesive process**, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SVFA-2.
 - ...
 - (2) One (1) ~~foaming operation~~ **CDL foam press**, identified as FF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SVFF-2.
 - (3) One (1) ~~curing oven/flame treater~~ **CDL flame treat process**, identified as FCO-2, with a maximum heat input capacity of 0.25 MMBtu/hr, using natural gas only, with no add-on control, and exhausting to a stack.
 - (4) One (1) **CDL DMC (machining operation)**, identified as FDMC-2A, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, **identified as DC3**, and exhausting to stack DC1-1.
 - (5) One (1) **CDL OLB (online boring center)**, identified as FDMC-2B, with maximum throughput capacity of 18,200 pounds per hour, using a baghouse for particulate control, **identified as DC3**, and exhausting to stack DC1-1.
- (d) One (1) conveyorized coating line, identified as ~~BPO2~~ **Breeze Line**, consisting of the following operations, ~~approved in~~ **constructed in** 2011 ~~for construction~~:
- (1) Six (6) coating booths, identified as **breeze** booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
 - (2) ~~Three Two (32)~~ manual booths, identified as **breeze** booths 7 through ~~89~~, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-~~98~~.
- Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.**
- Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.**
- (e) Machining centers as follows:
- Connected to dust collector DC~~35~~ and exhausting to stack DC~~35~~-1:
- (1) One (1) ~~CNC~~ **Thermwood 1** machining centers for Patio Doors, identified as PA-2, installed in 2006, capacity: 11.25 patio door units per hour, each.
 - (2) One (1) **new** KVAL cutout machines, identified as CO-3, installed in 2000, respectively, capacity: 50 units per hour.
 - (3) One (1) **C.R. Onsrud #1**, **this CNC operation is used** for machining hinges, slots, lock

openings and window openings in doors, permitted in 2012, identified as CNC-1, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.

Connected to dust collector DC46 and exhausting to stack DC46-1:

- (4) One (1) **C.R. Onsrud #2**, this CNC Thermwood machining center **is used** for Patio Doors, identified as PA-1, installed in 2006, capacity: 11.25 patio door units per hour, each.
 - ~~(5) Two (2) KVAL cutout machines, identified as CO-1 and CO-2, installed in 1993 and 2005, respectively, capacity: 50 units per hour, each.~~
 - (5) **One (1) Auto KVAL cutout machine, identified as CO-1, installed in 1993, capacity: 50 units per hour.**
 - (6) **One (1) cut out next cutout machine, identified as CO-2, installed in 1993, capacity: 50 units per hour.**
 - (67) One (1) **C12** cutout machine, identified as CO-4, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 2,450 pounds per hour.
 - (78) Miscellaneous TLI machining operations, permitted in 2010.
 - (9) **One (1) CNC operation for machining hinges, slots, lock openings, and window openings in doors, approved in 2015 for construction, identified as CNC-2, with a maximum throughput capacity of 975 pounds per hour and processing 18 units per hour.**
- (f) One (1) ~~double cut saw~~ **D-Saw**, identified as DCS-1, installed in 2004, using a baghouse for particulate control, **identified as DC1**, exhausting to a stack DCS-2-1, capacity: 130 door skins per hour.
- (g) One (1) spray booth coating operation, ~~approved for construction~~ **constructed** in 2007 and modified in 2010, identified as ~~TLI~~ **Lowes** Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as **TLI Booth 1** through **Booth 5**, **IR Drying Banks 1** and **2**, and **Flash 1** through **Flash 5**, collectively identified as **TLI Automatic Line**, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.
 - ...
 - (2) Two (2) manual paint booths, identified as ~~TLI Manual Booths~~ **(booths 6 and 7)**, with a combined maximum capacity of 14 units per hour, and using dry filters as control and exhausting to stacks TLI-6 and TLI-7.
 - ...
 - (4) One (1) spray booth, identified as TLI booth 8, ~~approved for construction~~ **constructed** in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control and exhausting to stack TLI-8.
 - ...
 - (5) One (1) **TLI** cutout machine, identified as TLI cutout, modified in 2010, with a maximum throughput capacity of 1,375 pounds per hour, using cyclone ~~TLI DC-4~~ **CY-3** for particulate control.
- (h) One (1) ~~concrete door adhesive spraying operation~~ **CD-Spray Booth**, ~~approved for construction~~ **constructed** in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.

- (iw) One (1) ~~double cut saw~~ **F-Saw**, identified as DCS-2, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, **identified as DC1**, and exhausting to stack ~~DCS-2-1~~.
- (x) **One (1) dry additive mixer, identified as SMCDM-1, approved for construction in 2009, with a maximum throughput capacity of 33 pounds per hour, using a baghouse for particulate control, and exhausting to stack SMCDM-1.1.**
- (jy) One (1) miscellaneous sawing/trimming operation, identified as MS-2, ~~approved for construction~~ **constructed** in 2009, with a maximum throughput capacity of 2,470 pounds per hour, using a baghouse for particulate control, **identified as DC1**, and exhausting to stack ~~DCS-2-4~~ **DC1**.
- ...

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 PSD Minor Limit [326 IAC 2-2]

- (a) In order to render 326 IAC 2-2 not applicable, the ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions from each facility listed in the table below shall not exceed its specified limit:

Emission Unit	PM/PM10 limit (pounds per hour)	PM10 limit (pounds per hour)	PM2.5 limit (pounds per hour)
SDMC-2A	1.80	1.80	1.80
FDMC-2A	2.54	2.54	2.54
FDMC-2B	1.80	1.80	1.80
DCS-2	0.32	0.32	0.32
MS-2	0.49	0.49	0.49
SDMC-2B	0.10	0.10	0.10
SMCDM-1	0.01	0.01	0.01
D2-MS1	2.54	2.54	2.54
D2-MS1-1	1.8	1.8	1.8
PA-1	0.067	0.067	0.067
EU4	16.17	16.17	16.17
DCS-1	0.64	0.64	0.64
TLI Cut Out	3.43	3.43	3.43
PA2, CO-3, CNC-1 (dust collector DC-3 5)	0.62	0.62	0.62
PA-1, CO-1, CO-2, CO-4, TLI Misc., & CNC-2 (dust collector DC-4 6)	4.53 1.63	1.63	1.63

- (b) In order to render 326 IAC 2-2 not applicable, the total ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions from the surface coating facilities listed in table below shall not exceed 78 tons per twelve (12) consecutive month period.

Process	Emission Unit ID
TLI Lowes Coating Line	Booth 1-8
A-Line ADL Line	SP-2
ADL Repair	BPO2-9

Process	Emission Unit ID
BPO2 Breeze Line	Booths 1 through 9 8
CD-3 CD-Spray Booth	CD-3

Compliance with the above limits in conjunction with Conditions D.2.2, D.3.4 and D.4.3, and PTE of ~~PM/PM10~~ **PM, PM10, and PM2.5** from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.

D.1.2 PSD Minor Limit for Particulate Matter [326 IAC 2-2]

~~In order to render 326 IAC 2-2 not applicable, the total PM/PM10 from CD-3 and the TLI Coating Line shall not exceed fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.~~

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

- (a) The total PM emissions from CD-3 and the Lowes Coating Line shall not exceed fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.**
- (b) The total PM10 emissions from CD-3 and the Lowes Coating Line shall not exceed fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.**

...
D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

~~In order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall limit the input of VOC including coatings, dilution solvents, and cleaning solvents to the ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), to less than twenty-five (25) tons per twelve (12) consecutive month period when coating plastic products, with compliance determined at the end of each month.~~

Compliance with the above limit shall limit the VOC emissions from the ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), to less than twenty-five (25) tons per twelve (12) consecutive month period and render 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable to SSM No. 033-25066-00019, issued on December 14, 2007 with respect to VOC.

D.1.4 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicators at D2-APP1, the ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, **BP02-9** and **BPO2 Breeze Line (booths 1 through 8)** when coating metal products.

...
D.1.6 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) **BDL GLG** adhesive application station ~~process~~ (D2-APP1), ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), the one (1) ~~concrete door adhesive spraying operation~~ **CD-Spray Booth** (CD-3), the ~~spray booth coating operation~~ **ADL paint line** (SP-2), **ADL repair manual coating booth (BP02-9)** and **BPO2 Breeze Line (booths 1 through 8)** shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.1.7 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the facilities listed below shall be limited as specified when operating at the respective process weight rate:

Emission Unit/Activity	Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)
...		
CNC-2	0.49	2.53

...
 Compliance Determination Requirements

D.1.10 Particulate Matter (PM/PM10/**PM2.5**) Emissions Determination [326 IAC 2-2]

(a) Compliance with Conditions D.1.1(b) and D.1.2 shall be determined by calculating the ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions associated with each coating applied at the emission units listed in Conditions D.1.1(b) and D.1.2 using the following equation:

$$PM/PM10/PM2.5 = (\sum CU \times D \times W\%S) \times [1-(TE/100)] \times [1-(CE/100)] \times 1/2000$$

Where:

PM/PM10/PM2.5 = The total PM/PM10/PM2.5 emissions (ton/month) for all coatings.

(b) Compliance with Condition D.1.2 shall be determined by calculating the PM and PM10 emissions associated with each coating applied at the emission units listed in Conditions D.1.2 using the following equation:

$$PM/PM10 = (\sum CU \times D \times W\%S) \times [1-(TE/100)] \times [1-(CE/100)] \times 1/2000$$

Where:

PM/PM10 = The total PM/PM10 emissions (ton/month) for all coatings.

CU = The total Coating use (gal coating/month) of each coating.

D = The density (lb coating/gal coating) of each coating.

W%S = The weight percent solids (lb solids/lb coating) of each coating.

TE = The transfer efficiency (%) of the spray applicators. This value shall be equal 75% for High Volume and Low Pressure (HVLP) spray application method and 50% for Airless spray application method; unless an IDEM approved test is conducted, in which case the value shall equal that determined from the most recent IDEM approved test.

CE = The control efficiency (%) of the dry filters. This value shall be equal 95%.

D.1.12 Testing Requirements [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance with Condition D.1.1(a), the Permittee shall perform PM, ~~and~~ PM10, and **PM2.5** testing on FDMC-2A, FDMC-2B, DC-35 and DC-46 ~~on whichever later date from the time period specified in (1) and (2) below. utilizing methods as approved by the Commissioner. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. The Permittee shall perform the initial PM2.5 testing from the date of the most recent valid compliance demonstration for PM and PM10. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C -- Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 includes filterable and condensable PM.~~

(1) ~~Within 180 days of publication of the new or revised condensable PM test method(s) referenced in the U. S. EPA's Final Rule for Implementation of the~~

~~New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM_{2.5}), signed on May 8, 2008.~~

- ~~(2) Within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup.~~

~~PM₁₀ includes filterable PM.~~

~~The above testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted using methods approved by the Commissioner and in accordance with 326 IAC 3-6-3 and Section C - Performance Testing.~~

- (b) In order to demonstrate the compliance with Condition D.1.1(b), the Permittee shall conduct transfer efficiency testing on one (1) of the booths in **BPO2 Breeze** Line no later than 180 days after the initial start-up of **BPO2 Breeze** Line. The testing shall be performed using 'Airless Spray' application method. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. The repeat testing shall be done on a booth from **the BPO2 Breeze** Line that has not been tested in the past ten (10) years. Testing shall be conducted using methods approved by the Commissioner and in accordance with 326 IAC 3-6-3. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.13 Monitoring [40 CFR 64]

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters equipped on SP-2, booths of ~~TLI~~**the Lowes** coating line, and **BPO2 Breeze** Line.
- (b) To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the stacks (Stacks TLI-1, TLI-2, TLI-3, TLI-4, TLI-5, SP-2.1, **and** SBPO2-1 through SBPO2-~~68~~ **and** SBPO2-7 through SBPO2-9) while one or more of the associated booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (c) Monthly inspections shall be performed of the coating emissions from the stacks (TLI-1, TLI-2, TLI-3, TLI-4, TLI-5, SP-2.1, **and** SBPO2-1 through SBPO2-~~68~~ **and** SBPO2-7 through SBPO2-9) and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

The above monitoring conditions satisfy the Compliance Assurance Monitoring (CAM) for SP-2, Booths 1 through 5 of ~~TLI~~ **the Lowes** coating line, **and** SBPO2-1 through SBPO2-~~68~~ **and** SBPO2-7 through SBPO2-9.

D.1.14 Monitoring

- (a) Weekly inspections shall be performed to verify the placement, integrity and particle loading of the dry filters used in conjunction with **BP02-9, TLI-6, TLI-7, TLI-8, and** CD-3.

- (b) To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the stacks **SBPO2-9**, CD3-1, TLI-6, TLI-7, and TLI-8 while the associated coating facilities with these stacks are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (c) Monthly inspections shall be performed of the coating emissions from the stacks **SBPO2-9**, CD3-1, TLI-6, TLI-7, and TLI-8 and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.15 Visible Emissions Notations

- ~~(a) Visible emission notations of the EU4; D2-MS1 and D2-MS1-1; DC-3 and DC-4 stack exhausts and SDMC-2A, FDMC-2A, FDMC-2B, CO-4, DCS-2, MS-2, SDMC-2B, and SMCDM-1 stack exhausts, and TLI Cut Out exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~
- (a) Visible emission notations of stack exhausts (CY-2, 20.1, DC5-1, DC6-1, DC3-1, DCS-1, SMCDM-1.1, and TLI Cut Out) shall be performed. These notations shall be taken once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.**

...

D.1.16 Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the dust collectors, cyclone and baghouse used in conjunction with EU4; ~~D2-APP4~~; D2-MS1 and D2-MS1-1; PA-1, CO-1, CO-2, CO-3, DCS-1, SDMC-2A, FDMC-2A, FDMC-2B, CO-4, DCS-2, MS-2, SDMC-2B, SMCDM-1, CNC-1, **CNC-2**, and TLI Cut Out at least once per day when any of these facilities are in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take reasonable response. The normal range for ~~this unit~~ **these units** is a pressure drop between 1.0 and 7.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

...

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.19 Record Keeping Requirements

....

- (b) To document the compliance status with Conditions D.1.1(b) and D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to demonstrate compliance with the **PM/PM10/PM2.5 emission limits established in Condition D.1.1(b) and the PM/PM10 emission limits established in Condition D.1.2.**

...

- (e) To document the compliance status with Condition D.1.15, the Permittee shall maintain records of visible emission notations of the ~~EU4; D2-MS1 and D2-MS1-1; DC-3 and DC-4 stack exhausts when vented to atmosphere and SDMC-2A, FDMC-2A, FDMC-2B, CO-4,~~

~~DCS-2, MS-2, SDMC-2B, and SMCDM-1~~ **CY-2, 20.1, DC5-1, DC6-1, DC3-1, DCS-1, SMCDM-1.1, and TLI Cut Out** stack exhausts ~~and TLI Cut Out exhaust~~ when vented to atmosphere once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).

...

D.1.20 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.1(b), D.1.2, and D.1.3, shall be submitted ~~to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent,~~ not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. This report requires ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by a "responsible official" as defined by 326 IAC 2-7-1(~~34~~ 35).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: SMC Operations subject to NESHAP WWWW

...

(k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour, each.

...

(l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour, each.

...

(p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour each and a combined total of 4,826 pounds of SMC or ~~MC2~~ **FMC** per hour.

...

(w) **Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.**

Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.

...

Emission Limitations and Standards [326 IAC 2-7-5(1)]

...

D.2.2 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions from SILO1 and SILO2 shall not exceed 0.17 pounds per hour, each. **each facility listed in the table below shall not exceed its specified limit:**

Emission Unit	PM limit (pounds per hour)	PM10 limit (pounds per hour)	PM2.5 limit (pounds per hour)
SILO1	0.17	0.17	0.17
SILO2	0.17	0.17	0.17

Compliance with the above limits in conjunction with Conditions D.1.1, D.3.4 and D.4.3 and PTE of ~~PM/PM10~~ **PM, PM10, and PM2.5** from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.

...

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Insignificant Activities

...

(d) One (1) cold cleaning/degreasing operation, identified as CC-2, ~~approved for construction~~ **constructed** in 2009, with a maximum solvent usage capacity of 1 gallon per day, and venting inside the building.

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

...

D.3.4 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions from each facility listed in the table below shall not exceed its specified limit:

Emission Unit	PM/PM10 limit (pounds per hour)	PM10 limit (pounds per hour)	PM2.5 limit (pounds per hour)
Grinding and machining operations	1.80	1.80	1.80
FS-1	0.026	0.026	0.026
FS-2	0.057	0.057	0.057
FS-3	0.057	0.057	0.057
FS-4	0.057	0.057	0.057

Compliance with the above limits in conjunction with Conditions D.1.1, D.2.2 and D.4.3, and PTE of ~~PM/PM10~~ **PM, PM10, and PM2.5** from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive ~~PM/PM10~~ **PM, PM10, and PM2.5** emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.

...
SECTION D.4 FACILITY OPERATION CONDITIONS RESERVED

Facility Description [326 IAC 2-7-5(15)]: ~~Deflashing station~~

- ~~(a) One (1) deflashing station, identified as DF-2, installed in 2009, equipped with a cartridge dust collector for particulate control, exhausting inside the building, capacity: 720 fiberglass door skins per hour or 13,680 pounds per hour.~~
- ~~(b) One (1) deflashing station, identified as DF-1, approved for installation in 2006, equipped with a cartridge dust collector for particulate control, exhausted inside the building, capacity: 720 fiberglass door skins per hour or 13,680 pounds per hour.~~
- ~~(c) One (1) deflashing station, identified as DF-3, approved for construction in 2010, with a maximum throughput capacity of 13,680 pounds per hour, equipped with a cartridge dust collector for particulate control, exhausting to stack SDMC-2.1.~~

~~(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 2-7-5(1)]

~~D.4.1 Particulate [326 IAC 6-3-2]~~

~~Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from each of the deflashing stations (DF-1, DF-2, and DF-3) shall not exceed 14.87 pounds per hour when operating at a process weight rate of 13,680 pounds per hour (6.84 tons per hour). The pound per hour limitation was calculated using 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:~~

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

~~D.4.2 Minor Source Modification (PM and PM10) [326 IAC 2-7-10.5(d)(4)(C)]~~

~~Pursuant to 326 IAC 2-7-10.5(d)(4)(C), the PM/PM10 emissions from the deflashing station identified as DF-1 shall not exceed 0.19 pounds per hour.~~

~~Compliance with this limit ensures that the PM/PM10 emissions from MSM No. 033-23835-00019, issued on December 13, 2006, are less than twenty five (25) tons per year.~~

~~D.4.3 PSD Minor [326 IAC 2-2]~~

~~In order to render 326 IAC 2-2 not applicable, the PM/PM10 emissions from the deflashing stations identified as DF-1, DF-2, DF-3 shall not exceed 0.19, 0.19 and 0.7 pounds per hour, respectively.~~

~~Compliance with the above limits in conjunction with Conditions D.1.1, D.2.2 and D.3.4, and PTE of PM/PM10 from D2-F1, SMC2, SCO-2, D2-OV2, FCO-2, EG-1 and EG-2 will limit source-wide non-fugitive PM/PM10 emissions to less than 250 tons per year. Therefore, this is a minor source under 326 IAC 2-2.~~

~~D.4.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]~~

~~A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the Preventive Maintenance Plan required by this condition.~~

~~Compliance Determination Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]~~

~~D.4.5 Particulate Control [326 IAC 2-7-6(6)]~~

- ~~(a) In order to comply with Conditions D.4.1, D.4.2 and D.4.3, the cartridge dust collector for particulate control shall be in operation and control emissions from the associated deflashing stations at all times that the associated deflashing station is in operation.~~
- ~~(b) In the event that cartridge failure is observed in a multi-compartment dust collector, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

~~D.4.6 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the deflashing stations' exhaust shall be performed once per day during normal daylight operations when exhausting outside to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~
- ~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~
- ~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~
- ~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~
- ~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.~~

~~D.4.7 Dust Collector Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

- ~~(a) The Permittee shall record the pressure drop across the cartridges used in conjunction with the deflashing stations (DF-1 and DF-2) at least once per day when the deflashing stations are in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take reasonable response. The normal range for this unit is a pressure drop between 1.0 and 7.0 inches of water unless a different upper bound or lower bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.~~
- ~~(b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.~~

~~D.4.8 Broken or Failed Cartridge Detection~~

- ~~(a) For a single compartment dust collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~
- ~~(b) For a single compartment dust collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~

~~Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.~~

~~Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]~~

~~D.4.9 Record Keeping Requirements~~

- ~~(a) To document the compliance status with Condition D.4.6, the Permittee shall maintain records of visible emission notations of the deflashing stations' exhaust once per day when exhausting to the atmosphere. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).~~
- ~~(b) To document the compliance status with Condition D.4.7, the Permittee shall maintain records once per day of the pressure drop. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).~~
- ~~(c) Section C – General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

SECTION D.5 Source-Wide VOC Emission Limit

Emissions Unit Description:

- (a) One (1) steel door assembly line, identified as ~~A-Line~~ **ADL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~enclosed spray coating operation~~ **ADL paint line**, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.
 - ...
 - (2) One (1) ~~adhesive coating operation~~ **ADL GLG adhesive process**, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.
 - ...
 - (3) One (1) ~~foaming operation~~ **ADL foam press**, identified as SF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SF-2.1.
 - (4) **One (1) ADL repair manual coating booth, identified as BPO2-9, using airless**

spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.

Under 40 CFR 63 (NESHAP), Subpart Mmmm, this unit is considered a miscellaneous metal parts and products surface coating facility.

- (b) One (1) Door Assembly Line, identified as ~~B-Line~~ **BDL Line**, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
- (1) One (1) ~~adhesive application station~~ **BDL GLG adhesive process**, identified as D2-APP1, without add-on control, exhausting through Stack 18.2, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart Pppp, this unit is considered a plastic parts and products surface coating facility.
 - ...
 - (2) One (1) ~~door foam injection system~~ **BDL foam press**, identified as D2-F1, exhausting through Stack 19.1, capacity: 2,300 pounds of resin and foam insulation per hour or 360 doors per hour.
- (c) One (1) fiberglass door assembly line, identified as ~~C-Line~~ **CDL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~adhesive coating operation~~ **CDL GLG adhesive process**, identified as FA-2, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SVFA-2.
 - ...
 - (2) One (1) ~~foaming operation~~ **CDL foam press**, identified as FF-2, with a maximum capacity of 360 steel doors per hour, with no add-on control, and exhausting to stack SVFF-2.
- (d) One (1) conveyorized coating line, identified as ~~BPO2~~ **Breeze Line**, consisting of the following operations, ~~approved in~~ **constructed in** 2011 ~~for construction~~:
- (1) Six (6) coating booths, identified as **breeze** booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
 - (2) ~~Three~~ **Two (32)** manual booths, identified as **breeze** booths 7 through ~~89~~, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-~~98~~.

Under 40 CFR 63 (NESHAP), Subpart Mmmm, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart Pppp, this unit is considered a plastic parts and products surface coating facility.

- (g) One (1) spray booth coating operation, ~~approved for construction~~ **constructed** in 2007 and modified in 2010, identified as ~~TLI~~ **Lowes** Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as **TLI** Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.

- ...
- (2) Two (2) manual paint booths, identified as TLI Manual Booths (booths 6 and 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control and exhausting to stacks TLI-6 and TLI-7.
- ...
- (4) One (1) spray booth, identified as TLI booth 8, ~~approved for construction~~ **constructed** in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control and exhausting to stack TLI-8.
- (h) One (1) ~~concrete door adhesive spraying operation~~ **CD-Spray Booth**, ~~approved for construction~~ **constructed** in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.
- ...
- (j) One (1) molding compound (**MC2 FMC**) production operation, identified as **MC24 FMC Machine**, approved in 2014 for construction, capacity: 3,750 pounds of **MC2 FMC** per hour or 90,000 pounds of **MC2 FMC** per day, uncontrolled, exhausting to stack S-1, and consisting of:
- ...
- (4) One (1) resin mixer (**MC2 FMC**); and
-
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these emission units are considered a molding compound (**MC2 FMC**) manufacturing operation
- (k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour, each.
- ...
- (l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or **MC2 FMC** per hour.
- ...
- (o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour, each.
- ...
- (p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...
- (u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or **MC2 FMC** per hour.
- ...

- (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour each and a combined total of 4,826 pounds of SMC or ~~MC2 FMC~~ per hour.
- ...
- (w) **Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.**
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.**
- ...

Emission Limitations and Standards [326 IAC 2-7-5(1)] [326 IAC 2-2]

D.5.1 PSD Minor Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the total sum of VOC usage (including coatings, dilution solvents, and cleaning solvents) at the coating facilities identified as D2-APP1, ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, **BPO2-9, Breeze Line (booths 1-8)**, and FA-2, the two (2) foaming operations (FF-2 and SF-2), and the one (1) foam injection system (D2-F1), and VOC emissions from the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder and from the SMC Presses 1 through ~~25~~ **29** and ~~BPO2-Line~~ and the Molding Compound Production Operation (~~MC24 FMC~~) consisting of two (2) resin mixers and one (1) ~~MC2 FMC~~ extruder shall be limited such that the VOC emissions shall not exceed 241.0 tons per twelve (12) consecutive months period with compliance determined at the end of each month.

...
Compliance Determination Requirements

D.5.2 Volatile Organic Compounds (VOC)

(a) In order to comply with Condition D.5.1, the Permittee shall determine VOC usage (including coatings, dilution solvents, and cleaning solvents) for each twelve (12) consecutive months period at each of the following coating facilities: D2-APP1, ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, **BPO2-9, and FA-2, and BPO2 Breeze Line (booths 1-8)**. The VOC usage for each of these facilities shall equal the VOC emissions.

(b) In order to comply with Condition D.5.1, the VOC emissions from the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder shall be determined by the following equation:
$$\text{VOC} = [(\text{SMC}_{\text{UM}} * \text{EF}_{\text{M}}) + (\text{SMC}_{\text{UE}} * \text{EF}_{\text{E}})] * (1/2,000 \text{ lbs/ton})$$

...
(c) In order to comply with Condition D.5.1, the VOC emissions from the SMC and ~~MC2 FMC~~ Presses 1 through ~~25~~ **29** shall be determined by the following equation:

$$\text{VOC} = (\text{SMC}_{\text{UP}} * \text{SMC}\%_{\text{VOC}}/100 * \text{EF}_{\text{P}}/100) + (\text{MC2BFMC}_{\text{UP}} * \text{MC2FMC}\%_{\text{VOC}}/100 * \text{EF}_{\text{P}}/100)$$

Where:

VOC = tons of VOC emitted for the previous 12 consecutive month period

SMC_{UP} = tons of SMC used in the ~~25~~ **29** SMC and ~~MC2 FMC~~ presses in the previous 12 months

SMC_{VOC} = percent by weight VOC content of the SMC used

$\text{MC2BFMC}_{\text{UP}}$ = tons of ~~MC2 FMC~~ used in the ~~25~~ **29** SMC and ~~MC2 FMC~~ presses in the previous 12 months

$\text{MC2FMC}\%_{\text{VOC}}$ = percent by weight VOC content of the ~~MC2 FMC~~ used

$EF_P = 3.0$ percent of VOC emitted

- (d) In order to comply with Condition D.5.1, the VOC emissions from the Molding Compound Production Operation (~~MC24~~ **FMC Machine**) consisting of two (2) resin mixers and one (1) ~~MC2~~ **FMC** extruder shall be determined by the following equation:
 $VOC = [(MC2FMC_{UM} * EF_M) + (MC2FMC_{UE} * EF_E)] * (1/2,000 \text{ lbs/ton})$

Where:

VOC = tons of VOC emitted for the previous 12 consecutive month period
 $MC2FMC_{UM}$ = tons of ~~MC2~~ **FMC** used in the 2 resin mixers in the previous 12 months
 $EF_M = 0.04$ lbs of VOC emitted per ton of ~~MC2~~ **FMC** used
 $MC2FMC_{UE}$ = tons of ~~MC2~~ **FMC** used in the extruder in the previous 12 months
 $EF_E = 0.20$ lbs of VOC emitted per ton of ~~MC2~~ **FMC** used

...
D.5.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

In order to comply with Condition D.5.1, the VOC content and usage of the foaming agents and coating material (including coatings, dilution solvents, and cleaning solvents) used at the coating facilities identified as D2-APP1, ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, ~~BPO2-9,~~ **Breeze Line (booths 1-8)**, and FA-2, the two (2) foaming operations (FF-2 and SF-2), the one (1) foam injection system (D2-F1) ~~and BPO2 Line~~ shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.4 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.5.1, D.5.2, and D.5.3 the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to determine the VOC usage as required in Condition D.5.1 for the coating facilities identified as D2-APP1, ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, ~~BPO2-9,~~ **Breeze Line (booth 1-8)**, and FA-2, the two (2) foaming operations (FF-2 and SF-2), the one (1) foam injection system (D2-F1) ~~and BPO2 Line~~. Records necessary to determine the VOC usage as required in Condition D.5.1 shall be available within 30 days of the end of each compliance period.

- ...
(2) The amount of coating material, foaming agents and solvent ~~less water~~ used on monthly basis.

- ...
(b) To document the compliance status with Conditions D.5.1 and D.5.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to determine the VOC emissions as required in Condition D.5.1 for the Sheet Molding Compound Production Line (SMC2) consisting of two (2) resin mixers and one (1) SMC extruder and from the SMC Presses 1 through ~~25~~ **29**. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

- (1) The total SMC throughput at Presses 1 through ~~25~~ **29** and SMC2 (mixers and extruder) each month.
- (2) The VOC content of each SMC material used at Presses 1 through ~~25~~ **29** and SMC2 (mixers and extruder).

...

- (c) To document the compliance status with Conditions D.5.1 and D.5.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to determine the VOC emissions as required in Condition D.5.1 for the Molding Compound Production Operation (~~MC24 FMC Machine~~) consisting of two (2) resin mixers and one (1) ~~MC2 FMC~~ extruder. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The total ~~MC2 FMC~~ throughput at ~~MC24 FMC Machine~~ (mixers and extruder) each month.
- (2) The VOC content of each ~~MC2 FMC~~ material used at ~~MC24 FMC Machine~~ (mixers and extruder).

...
D.5.5 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.5.1 shall be submitted to ~~the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent,~~ not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~34~~ 35).

...
SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS - NESHAP [40 CFR 63, Subpart Mmmm]

Emissions Unit Description: Door Assembly

- (a) One (1) steel door assembly line, identified as ~~A-Line~~ **ADL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~enclosed spray coating operation~~ **ADL paint line**, identified as SP-2, using airless spray application method, with a maximum capacity of 360 steel doors per hour with 0.14 gallons per steel door coating usage rate, using dry filters for particulate control, and exhausting to stack SP-2.1.
- ...
- (2) One (1) ~~adhesive coating operation~~ **ADL GLG adhesive process**, identified as SA-2, with a maximum capacity of 360 steel doors per hour with 0.20 gallons per steel door coating usage rate, without add-on control, and exhausting to stack SA-2.1.
- ...
- (3) **One (1) ADL repair manual coating booth, identified as BPO2-9, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stack SBPO2-9.**
- Under 40 CFR 63 (NESHAP), Subpart Mmmm, this unit is considered a miscellaneous metal parts and products surface coating facility.**
- (d) One (1) conveyORIZED coating line, identified as ~~BPO2~~ **Breeze Line**, consisting of the following operations, ~~approved in~~ **constructed in** 2011 for construction:
- (1) Six (6) coating booths, identified as **breeze** booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.
- (2) ~~Three~~ **Two (32)** manual booths, identified as **breeze** booths 7 through ~~89~~, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-~~98~~.

Under 40 CFR 63 (NESHAP), Subpart Mmmm, these units are considered a

miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.

- (g) One (1) spray booth coating operation, ~~approved for construction~~ **constructed** in 2007 and modified in 2010, identified as ~~TLI~~ **Lowes** Coating Line, and consisting of:
- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as **TLI Booth 1** through **Booth 5**, **IR Drying Banks 1** and **2**, and **Flash 1** through **Flash 5**, collectively identified as **TLI Automatic Line**, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks **TLI-1** through **TLI-5**, respectively.

...

 - (2) Two (2) manual paint booths, identified as ~~TLI Manual~~ **Booths** (booths 6 and 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control and exhausting to stacks **TLI-6** and **TLI-7**.

...

 - (4) One (1) spray booth, identified as **TLI booth 8**, ~~approved for construction~~ **constructed** in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control and exhausting to stack **TLI-8**.

...
- (h) One (1) ~~concrete door adhesive spraying operation~~ **CD-Spray Booth**, ~~approved for construction~~ **constructed** in 2007, identified as **CD-3**, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack **CD3-1**.
- ...

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS – NESHAP [40 CFR 63, Subpart PPPP]

Emissions Unit Description: Door Assembly

- (b) One (1) Door Assembly Line, identified as ~~B-Line~~ **BDL Line**, installed in 2000, capacity: 20,250 pounds of doors per hour or 360 doors per hour, consisting of:
- (1) One (1) ~~adhesive application station~~ **BDL GLG adhesive process**, identified as **D2-APP1**, without add-on control, exhausting through Stack **18.2**, capacity: 43 pounds of adhesive per hour or 360 doors per hour. Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.
- Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.**
- (c) One (1) fiberglass door assembly line, identified as ~~C-Line~~ **CDL Line**, consisting of the following operations, ~~approved for construction~~ **constructed** in 2009:
- (1) One (1) ~~adhesive coating operation~~ **CDL GLG adhesive process**, identified as **FA-2**, with a maximum capacity of 360 steel doors per hour with 0.03 gallons per steel door coating usage rate, without add-on control, and exhausting to stack **SVFA-2**.
- Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.**
- (d) One (1) conveyORIZED coating line, identified as ~~BPO2~~ **Breeze Line**, consisting of the following operations, ~~approved in~~ **constructed in** 2011 ~~for construction~~:
- (1) Six (6) coating booths, identified as **breeze** booths 1 through 6, using airless spray application method, with a maximum capacity of 60 doors per hour, using dry filters for

particulate control, and exhausting to stacks SBPO2-1 through SBPO2-6.

- (2) ~~Three~~ **Two (32)** manual booths, identified as **breeze** booths 7 through ~~89~~, using airless spray application method, with a maximum capacity of 14 doors per hour, using dry filters for particulate control, and exhausting to stacks SBPO2-7 through SBPO2-98.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (g) One (1) spray booth coating operation, ~~approved for construction~~ **constructed** in 2007 and modified in 2010, identified as ~~TLI~~ **Lowes** Coating Line, and consisting of:

- (1) One (1) automatic line with five (5) paint booths, two (2) electric powered infrared drying banks, and five (5) electric flash stations, individually identified as **TLI** Booth 1 through Booth 5, IR Drying Banks 1 and 2, and Flash 1 through Flash 5, collectively identified as TLI Automatic Line, with a maximum capacity of 60 doors per hour or 50 patio units per hour, using dry filters as control, and exhausting to stacks TLI-1 through TLI-5, respectively.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (2) Two (2) manual paint booths, identified as TLI ~~Manual~~ Booths (booths 6 and 7), with a combined maximum capacity of 14 units per hour, and using dry filters as control and exhausting to stacks TLI-6 and TLI-7.

Under 40 CFR 63 (NESHAP), Subpart M MMM, these units are considered a miscellaneous metal parts and products surface coating facilities.

Under 40 CFR 63 (NESHAP), Subpart P PPP, these units are considered plastic parts and products surface coating facilities.

- (3) One (1) paint kitchen for mixing, handling, and storing paint.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (4) One (1) spray booth, identified as TLI booth 8, ~~approved for construction~~ **constructed** in 2010, with a maximum capacity of seven (7) units per hour, and using dry filters for particulate control and exhausting to stack TLI-8.

Under 40 CFR 63 (NESHAP), Subpart M MMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart P PPP, this unit is considered a plastic parts and products surface coating facility.

- (h) One (1) ~~concrete door adhesive spraying operation~~ **CD-Spray Booth**, ~~approved for construction~~

constructed in 2007, identified as CD-3, with a maximum capacity of 24 doors per hour, using dry filters as control, and exhausting to Stack CD3-1.

Under 40 CFR 63 (NESHAP), Subpart MMMM, this unit is considered a miscellaneous metal parts and products surface coating facility.

Under 40 CFR 63 (NESHAP), Subpart PPPP, this unit is considered a plastic parts and products surface coating facility.

SECTION E.3 EMISSIONS UNIT OPERATION CONDITIONS - NESHAP [40 CFR 63, Subpart WWWW]

Facility Description [326 IAC 2-7-5(14)]: SMC and ~~MC2~~ **FMC** Operations subject to NESHAP WWWW

...
(j) One (1) molding compound (~~MC2~~ **FMC**) production operation, identified as ~~MC24~~ **FMC Machine**, approved in 2014 for construction, capacity: 3,750 pounds of ~~MC2~~ **FMC** per hour or 90,000 pounds of ~~MC2~~ **FMC** per day, uncontrolled, exhausting to stack S-1, and consisting of:

...
(4) One (1) resin mixer (~~MC2~~ **FMC**); and

...
Under 40 CFR 63 (NESHAP), Subpart WWWW, these emission units are considered a molding compound (~~MC2~~ **FMC**) manufacturing operation

(k) Six (6) sheet molding compound (SMC) presses, identified as Presses 1 through 6, installed in 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour, each.

...
(l) One (1) sheet molding compound (SMC) press, identified as Press 7, installed in February 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(m) One (1) sheet molding compound (SMC) press, identified as Press 8, installed in August 1989, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(n) One (1) sheet molding compound (SMC) press, identified as Press 9, installed in March 1999, exhausting inside, capacity: 862.5 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(o) Four (4) sheet molding compound (SMC) presses, identified as Presses 11 through 14, installed in 2000, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour, each.

...
(p) One (1) sheet molding compound (SMC) press, identified as Press 15, installed in March 2001, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(q) One (1) sheet molding compound (SMC) press, identified as Press 16, installed in May 2001, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(r) One (1) sheet molding compound (SMC) press, identified as Press 17, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(s) One (1) sheet molding compound (SMC) press, identified as Press 18, installed in June 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(t) One (1) sheet molding compound (SMC) press, identified as Press 19, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.

...
(u) One (1) sheet molding compound (SMC) press, identified as Press 20, installed in July 2002, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2~~ **FMC** per hour.
...

- (v) Five (5) sheet molding compound (SMC) presses, identified as Presses 21 through 25, installed in 2005, exhausting inside, capacity: 1,067 pounds of SMC or ~~MC2 FMC~~ per hour each and a combined total of 4,826 pounds of SMC or ~~MC2 FMC~~ per hour.
- ...
- (w) **Four (4) sheet molding compound (SMC) presses, approved in 2015 for construction, identified as Presses 26, 27, 28, and 29, exhausting inside, capacity: 1, 067 pounds of SMC or FMC per hour, each.**
- Under 40 CFR 63 (NESHAP), Subpart WWWW, these units are considered sheet molding compound (SMC) manufacturing operations.**
- ...

...
E.3.2 NESHAP WWWW Requirements [40 CFR Part 63, Subpart WWWW]

Pursuant to CFR Part 63, Subpart WWWW, the Permittee shall comply with the following provisions (included as 'Attachment A'), which are incorporated by reference as 326 IAC 20-56, for the Sheet Molding Compound (SMC) Production Line, identified as SMC2, the SMC presses (Presses 1 through 9 and 11 through ~~25~~ **29**), the Molding compound (~~MC2 FMC~~) Production Operation, identified as ~~MC24 FMC Machine~~, and equipment cleaning, cleaning of materials used in reinforced plastic composites manufacture, mixing, and HAP-containing material storage:

...
Facilities: ~~TLI~~ **Lowes** Coating Line
Parameter: Input of VOC
Limit: Total VOC input including coatings, dilution solvents, and cleaning solvents for the ~~TLI~~ **Lowes** Coating Line shall be less than a total of twenty-five (25) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ **YEAR:** _____

...
Facilities: ~~TLI~~ **Lowes** Coating Line and CD-3
Parameter: PM / PM₁₀ Emissions
Limit: Total PM / PM₁₀ emissions for the ~~TLI~~ **Lowes** Coating Line and CD-3 shall be less than a total of fifteen (15) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ **YEAR:** _____

...
Facilities: D2-APP1, ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, **BPO2-9, Breeze Line (booths 1-8)**, FA-2, the two (2) foaming operations (FF-2 and SF-2), and the one (1) foam injection system (D2-F1), SMC Presses 1 through ~~25~~ **29** and SMC2 (mixers and extruder), ~~MC24 and FMC Machine~~ (mixers and extruder), and ~~BPO2 Line~~.
Parameter: The total sum of VOC usage (including coatings, dilution solvents, and cleaning solvents) at the coating facilities D2-APP1, ~~TLI~~ **Lowes** Coating Line (including the TLI Automatic Line (booths 1-5), TLI Manual Booths (booths 6 & 7), and TLI booth 8), CD-3, SP-2, SA-2, **BPO2-9, Breeze Line (booths 1-8)**, FA-2, the two (2) foaming operations (FF-2 and SF-2), and the one (1) foam injection system (D2-F1), and VOC emissions from SMC Presses 1 through ~~25~~ **29**, SMC2 (mixers and extruder) ~~MC24 and FMC Machine~~ (mixers and extruder) and ~~BPO2 Line~~.

QUARTER: _____ **YEAR:** _____

Month	Total Input of VOC to the coating facilities D2-APP1, FL Lowes Coating Line (booths 1- 8), CD-3, SP-2, SA-2, BPO2-9 , FA-2, and BPO2 Breeze Line (booths 1-8) (tons)		Total VOC emissions from the SMC Presses 1 through 25 29 and SMC2 (mixers and extruder), MC24 FMC Machine (mixers and extruder), and FF-2, SF-2, and D2-F1 (tons)		VOC Emissions (tons)
	This Month	Previous 11 Months	This Month	Previous 11 Months	12 Month Total
	A	B	C	D	=A+B+C+D

...
 Facilities: ~~FL~~ **Lowes** Coating Line (Booths 1-8), SP-2, **BPO2-9**, ~~BPO2~~ **Breeze** Line (**booths 1-8**), and CD-3
 Parameter: ~~PM/PM10~~ **PM, PM10, and PM2.5** Emissions
 Limit: Shall not exceed 78 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

- YEAR: _____

Month	PM/PM10 PM, PM10, and PM2.5 Emissions (tons)	PM/PM10 PM, PM10, and PM2.5 Emissions (tons)	PM/PM10 PM, PM10, and PM2.5 Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

...
 IDEM, OAQ made additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

1. The emission unit descriptions for the two emergency generators in Sections A.4 and E.4 have been revised to reflect that these units are located at a major source of HAPs. In addition, IDEM has clarified that the diesel generator was installed and manufactured in 2005.

2. In Significant Source Modification No. 033-29570-00019, issued on January 11, 2001 and Significant Permit Modification No. 033-29604-00019, issued on January 28, 2011, the source notified IDEM that they ordered and constructed one diesel fuel-fired generator in 2005. Based on the information available to IDEM it was determined this generator was subject to the requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII) because the generator was ordered and constructed after July 11, 2005. However, upon further review IDEM has determined the generator was manufactured on December 2, 2005. Pursuant to 40 CFR 60.4200(b), this NSPS applies to owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are manufactured after April 1, 2006, and are not fire pump engines. Therefore, this NSPS is not applicable to the generator and will be removed from the permit. As a result of this change Attachment E of this permit will be designated as reserved.
3. IDEM has revised the VOC usage record keeping requirements in Conditions D.1.19 and D.5.4 (see above for changes to Condition D.5.4) to remove the words "less water."
4. IDEM has revised the VOC equations in Condition 5.1(b) and (d) to correct a technical error in the equations (see above for changes).
5. Condition D.4.3 has been revised to correct a typographical error.

...

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]

...

- (j) One (1) natural gas-fired reciprocating emergency generator, identified as EG-1 rated at fifty (50) kW (~67 HP), (ordered in October 2010), and approved in 2010 for construction.

This four-stroke rich-burn natural gas generator, identified as EG-1, is considered an affected facility under the NSPS for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60, Subpart JJJJ) and a new stationary reciprocating internal combustion engine at ~~an area~~ a **major** source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CRF 63, Subpart ZZZZ).

- (k) One (1) diesel fuel-fired compression ignition emergency generator for fire suppression system, identified as EG-2 rated at fifty (350) kilowatt (kW) (~469.2 HP), ~~in-stalled~~ **installed and manufactured** in 2005.

EG-2, is considered an ~~existing affected facility under the NSPS for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII)~~ and an existing stationary reciprocating internal combustion engine at ~~an area~~ a **major** source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CRF 63, Subpart ZZZZ).

...

D.1.19 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits established in Condition D.1.3. Records necessary to demonstrate compliance shall be available not later than 30 days after the end of each compliance period.

...

- (2) The amount of coating material and solvent ~~less water~~ used on monthly basis.

- (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

- (B) ~~Solvent usage records shall differentiate between those added to~~

~~coatings and those used as cleanup solvents.~~

...

SECTION E.4 FACILITY OPERATION CONDITIONS

Emissions Unit Description:

- (j) One (1) natural gas-fired reciprocating emergency generator, identified as EG-1 rated at fifty (50) kW (~67 HP), (ordered in October 2010), and approved in 2010 for construction.

This four-stroke rich-burn natural gas generator, identified as EG-1, is considered an affected facility under the NSPS for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60, Subpart JJJJ) and a new stationary reciprocating internal combustion engine at ~~an area~~ a **major** source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ).

- (k) One (1) diesel fuel-fired compression ignition emergency generator for fire suppression system, identified as EG-2 rated at fifty (350) kilowatt (kW) (~469.2 HP), ~~in-stalled~~ **installed and manufactured** in 2005.

EG-2, is considered an ~~existing affected facility under the NSPS for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII)~~ and an existing stationary reciprocating internal combustion engine at ~~an area~~ a **major** source of hazardous air pollutants under NESHAP for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ).

...

~~New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII] [326 IAC 2-7-5(1)]~~

~~E.4.2 General Provisions Relating to NSPS [40 CFR 60, Subpart A][326 IAC 12-1]~~

- (a) ~~Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, except as otherwise specified in 40 CFR 60, Subpart IIII.~~

- (b) ~~Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:~~

~~Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2254~~

~~E.4.3 New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII][326 IAC 12]~~

~~The Permittee, which owns or operates a stationary compression ignition internal combustion engine, identified as EG-2, shall comply with the following provisions of 40 CFR Part 60, Subpart IIII, which are incorporated by reference as 326 IAC 12:~~

- ~~(1) 40 CFR 60.4200(a)(2),~~
- ~~(2) 40 CFR 60.4205(b)~~
- ~~(3) 40 CFR 60.4206~~
- ~~(4) 40 CFR 60.4207~~
- ~~(5) 40 CFR 60.4208~~
- ~~(6) 40 CFR 60.4209~~
- ~~(7) 40 CFR 60.4211(a), (c), (e)~~
- ~~(8) 40 CFR 60.4214(b)~~
- ~~(9) 40 CFR 60.4218~~
- ~~(10) 40 CFR 60.4219~~

~~The entire text of 40 CFR 60, Subpart IIII, is included as Attachment E of this permit.~~

New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ] [326 IAC 2-7-5(1)]

E.4.42 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

...
E.4.53 New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines [326 IAC 12] [40 CFR Part 60, Subpart JJJJ]

The Permittee, which owns or operates a stationary spark ignition internal combustion engine, identified as EG-21 shall comply with the following provisions of 40 CFR Part 60, Subpart JJJJ, which are incorporated by reference as 326 IAC 12:

...

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 033-34988-00019 and Significant Permit Modification No. 033-34996-00019. The staff recommends to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Brian Williams 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) 234-5375 or toll free at 1-800-451-6027 extension 4-5375.
- (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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emissions Calculations
VOC and Particulate Emissions
ADL Coating Operations (SP-2, ADL Repair, and SA-2)**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Emission Unit	Material	Density (Lb/Gal)	Weight % non regulated and regulated Volatile (H2O & Organics)	Weight % regulated Volatile organics and H2O	Weight % Water	Weight % regulated Organics	Volume % Water	Wt % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	Control Efficiency		
ADL Paint Line (SP-2)	Antique White W/R Primer	10.98	57.92%	57.92%	52.9%	5.1%	0.0%	42.08%	0.13950	360	0.56	0.56	27.96	670.96	122.45	508.16	1.32	50%	95.0%		
ADL Repair	Antique White W/R Primer	10.98	57.92%	57.92%	52.9%	5.1%	0.0%	42.08%	0.13950	8	0.56	0.56	0.62	14.91	2.72	11.29	1.32	50%	95.0%		
ADL GLG Adhesive (SA-2)	H.B. Fuller NP-2075	8.4	6.90%	0.04%	0.0%	0.039%	0.0%	93.10%	0.19800	360	0.003	0.003	0.23	5.60	1.02	0.00	0.004	100%	--		
Uncontrolled Potential Emissions													28.81	691.48	126.19	519.45					
Controlled Potential Emissions													28.81	691.48	126.19	25.97					

METHODOLOGY

PM=PM10=PM2.5
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Soli

HAPs Emissions

Emission Unit	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % MDI	Weight % Vinyl Acetate	Weight % Formaldehyde	Weight % Benzene	Weight % Hexane	Weight % Glycol Ethers	Weight % Methanol	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Benzene Emissions (ton/yr)	Hexane Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)	Methanol Emissions (ton/yr)	Total HAP Emissions (ton/yr)
ADL Paint Line (SP-2)	Antique White W/R Primer	10.98	0.139500	360.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.92%	0.00%	0.00	0.00	0.00	0.00	0.00	70.52	0.00	70.52
ADL Repair	Antique White W/R Primer	10.98	0.139500	8.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.92%	0.00%	0.00	0.00	0.00	0.00	0.00	1.57	0.00	1.57
ADL GLG Adhesive (SA-2)	H.B. Fuller NP-2075	8.4	0.198000	360.00	0.04%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.02	78.68	0.00	0.00	0.00	0.00	0.00	79.70
Uncontrolled Potential Emissions												1.02	78.68	0.00	0.00	0.00	72.09	0.00	151.79

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
VOC, HAP and Particulate
From BDL GLG Adhesive (D2-APP1)**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC (pounds per hour)	Potential VOC (pounds per day)	Potential VOC (tons per year)	Particulate Potential (tons/yr)	lbs VOC/gal solids	Transfer Efficiency
D2-APP1																
H.B. Fuller NP-2075-T	8.51	3.91%	0.0%	3.91%	0.00%	100.00%	0.04350	360.000	0.33	0.33	5.20	124.88	22.79	0.00	0.33	100%
State Potential Emissions									Uncontrolled		5.20	124.88	22.79	0.00		
									Controlled		5.20	124.88	22.79	0.00		

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1-Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Vinyl Acetate	Weight % MDI	Vinyl Acetate Emissions (ton/yr)	MDI Emissions (ton/yr)
D2-APP1							
H.B. Fuller NP-2075-T	8.51	0.04350	360.000	0.03%	3.88%	0.175	22.6

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
VOC and Particulate Emissions
From CDL GLG Adhesive (FA-2)**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

Emission Unit	Material	Density (Lb/Gal)	Weight % non regulated and regulated Volatile (H2O & Organics)	Weight % regulated Volatile organics and H2O	Weight % Water	Weight % regulated Organics	Volume % Water	Wt % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	Control Efficiency
Fiberglass Gluing (FA-2)	H.B. Fuller NP-2075	8.4	6.90%	0.04%	0.0%	0.039%	0.0%	93.10%	0.03000	360	0.003	0.003	0.04	0.85	0.15	0.00	0.004	100%	--

METHODOLOGY

PM=PM10=PM2.5
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

HAPs Emissions

Emission Unit	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % MDI	Weight % Vinyl Acetate	Weight % Formaldehyde	Weight % Benzene	Weight % Hexane	Weight % Glycol Ethers	Weight % Methanol	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Benzene Emissions (ton/yr)	Hexane Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)	Methanol Emissions (ton/yr)
FA-2	PPG Heat Activated Trim Bond R-T-S (T7850)	8.4	0.030000	360.00	0.04%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.15	11.92	0.00	0.00	0.00	0.00	0.00

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
VOC and Particulate
Conveyorized Coating Line - Breeze Booths**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Automated Line (6 booths): Coating Door Units

Type of Coating	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Volatiles	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	
Basecoat	AN Earthtone Brown 630-D029-146	9.26	62.62%	55.84%	6.79%	71.19%	28.81%	0.1600	60	2.18	0.63	6.03	144.82	26.43	72.76	2.18	50%	
Basecoat	AN White High Hide Basecoat 630-W029-155	12.10	39.91%	35.71%	4.20%	51.86%	40.73%	0.1600	60	1.06	0.51	4.88	117.12	21.37	152.87	1.25	50%	
Wiping Glaze	AN Dark & Red Mahogany Wiping Glaze, 644-B029-26f	8.48	61.53%	59.75%	1.78%	60.84%	37.26%	0.0200	60	0.38	0.15	0.18	4.34	0.79	8.57	0.40	50%	
Wiping Glaze New	AN Early American Wiping Glaze, 644-D029-265	9.00	56.85%	55.18%	1.67%	61.50%	38.50%	0.0200	60	0.33	0.15	0.18	4.32	0.79	10.21	0.39	50%	
Stain (Rev.)	AN Breeze Golden Oak Spray Stain, 622-D029-14	8.43	93.17%	91.03%	2.14%	94.43%	5.57%	0.1000	60	2.27	0.18	1.08	25.92	4.73	7.56	3.23	50%	
Stain (Rev.)	AN Special Walnut Spray Stain, 622-D029-13	9.02	78.47%	76.81%	1.66%	85.09%	14.91%	0.1000	60	1.01	0.15	0.90	21.60	3.94	25.52	1.70	50%	
Top Coat (Rev.)	AN Gloss 2K W/B Topcoat 670-HL029-15	8.60	77.13%	72.33%	4.81%	74.70%	20.06%	0.3000	60	1.40	0.41	7.44	178.63	32.60	77.52	2.06	50%	
Top Coat New	AN 30 Sheen 2K W/B Topcoat 670-30L029-34	8.62	76.48%	71.72%	4.76%	79.39%	20.61%	0.3000	60	1.61	0.41	7.38	177.12	32.32	79.92	2.02	50%	
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-38	9.63	0.00%	0.00%	0.00%	100.00%	0.00%	0.0210	60	0.00	0.00	0.00	0.00	0.00	26.57	0.00	50%	
Adhesive Promoter	AN Adhesion Promoter 50-C029-171f	7.31	95.00%	0.00%	95.00%	0.00%	4.54%	0.0013	60	6.94	6.94	0.54	13.00	2.37	0.06	152.96	50%	
Acetone	AN Acetone 50-L029-280	6.59	0.00%	0.00%	0.00%	0.00%	0.00%	0.0234	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	
Mineral Spirits	Mineral Spirits	6.17	100.00%	0.00%	100.00%	0.00%	0.00%	0.0117	60	6.17	6.17	4.33	103.98	18.98	0.00	0.00	100%	
Uncontrolled Potential Emissions												18.53	444.77	85.90	295.15			
Controlled Potential Emissions												18.53	444.77	85.90	17.71			

Manual Booths (2 slow moving product booths & paint kitchen): Coating Door Units

Type of Coating	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Volatiles	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	
Basecoat	AN Earthtone Brown 630-D029-146	9.26	62.62%	55.80%	6.82%	71.20%	28.81%	0.1600	14	2.19	0.63	1.41	33.95	6.20	16.98	2.19	50%	
Basecoat	AN White High Hide Basecoat 630-W029-155	12.10	39.91%	35.70%	4.21%	51.90%	40.73%	0.1600	14	1.06	0.51	1.14	27.39	5.00	35.67	1.25	50%	
Wiping Glaze	AN Dark & Red Mahogany Wiping Glaze, 644-B029-26f	8.48	61.53%	59.75%	1.78%	60.84%	37.26%	0.0200	14	0.38	0.15	0.042	1.01	0.185	2.00	0.40	50%	
Wiping Glaze New	AN Early American Wiping Glaze, 644-D029-265	9.00	56.85%	55.18%	1.67%	61.50%	38.50%	0.0200	14	0.33	0.15	0.04	1.01	0.184	2.38	0.39	50%	
Stain (Rev.)	AN Breeze Golden Oak Spray Stain, 622-D029-14	8.43	93.17%	91.03%	2.14%	94.4%	5.57%	0.1000	14	2.27	0.18	0.25	6.05	1.10	1.76	3.23	50%	
Stain (Rev.)	AN Special Walnut Spray Stain, 622-D029-13	9.02	78.47%	76.8%	1.66%	85.1%	14.91%	0.1000	14	1.01	0.15	0.21	5.04	0.92	5.95	1.70	50%	
Top Coat (Rev.)	AN Gloss 2K W/B Topcoat 670-HL029-15	8.60	77.13%	72.33%	4.81%	74.70%	20.06%	0.3000	14	1.40	0.41	1.74	41.68	7.61	18.09	2.06	50%	
Top Coat New	AN 30 Sheen 2K W/B Topcoat 670-30L029-34	8.62	76.48%	71.72%	4.76%	79.39%	20.61%	0.3000	14	1.61	0.41	1.72	41.33	7.54	18.65	2.02	50%	
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-38	9.63	0.00%	0.00%	0.00%	100.00%	0.00%	0.0210	14	0.00	0.00	0.00	0.00	0.00	6.20	0.00	50%	
Adhesive Promoter	AN Adhesion Promoter 50-C029-171f	7.31	95.00%	0.00%	95.00%	0.00%	4.54%	0.0013	14	6.94	6.94	0.13	3.03	0.55	0.01	152.96	50%	
Acetone	AN Acetone 50-L029-280	6.59	0.00%	0.00%	0.00%	0.00%	0.00%	0.0234	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	
Mineral Spirits	Mineral Spirits	6.17	100.00%	0.00%	100.00%	0.00%	0.00%	0.0117	14	6.17	6.17	1.01	24.26	4.43	0.00	0.00	100%	
Uncontrolled Potential Emissions												4.58	109.99	20.07	68.87			
Controlled Potential Emissions												4.58	109.99	20.07	4.13			

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % wat
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organic
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/c
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solic
Total = Worst Coating + Sum of all solvents use

**Appendix A: Emissions Calculations
HAP Emission Calculations
Conveyorized Coating Line - BPO2**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34998-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

New Paint Line (6 booths): Coating Door Units

Type of Coating	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Chlorobenzene	Weight % Ethyl Benzene	Weight % Triethylamine	Weight % Butoxyethanol	Weight % Methanol	Glycol Ether Weight %	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Chlorobenzene Emissions (ton/yr)	Ethyl Benzene Emissions (ton/yr)	Triethylamine Emissions (ton/yr)	Butoxyethoxyethanol Emissions (ton/yr)	Methanol Emissions (ton/yr)	Glycol Ether Emissions (ton/yr)	
Basecoat	AN Earhttone Brown 630-D029-146	9.26	0.1600	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	4.35%	0.03%	0.00	0.00	0.00	0.00	0.00	0.52	16.94	0.10	
Wiping Glaze	AN Dark & Red Mahogany Wiping Glaze, 644-8029-2	8.48	0.0200	60	0.00%	0.00%	0.00%	0.00%	0.29%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	
Stain	AN Breeze Golden Oak Spray Stain, 622-D029-14	8.43	0.1000	60	0.00%	0.00%	0.00%	0.00%	0.29%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	
Top Coat New	AN 30 Sheen 2K W/B Topcoat 670-30L029-34	8.62	0.3000	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.14%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-38	9.63	0.0210	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Adhesive Promoter	AN Adhesion Promoter 50-C029-1715	7.31	0.0013	60	11.89%	81.13%	0.28%	1.70%	0.00%	0.00%	0.00%	0.00%	0.30	2.03	0.01	0.04	0.00	0.00	0.00	0.00	
Acetone	AN Acetone 50-L029-280	6.59	0.0234	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Mineral Spirits	Mineral Spirits	6.17	0.0117	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Uncontrolled Potential Emissions													0.30	2.03	0.01	0.04	0.77	0.52	16.94	1.06	

New Manual Booths (2 slow moving product booths & paint kitchen): Coating Door Units

Type of Coating	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Chlorobenzene	Weight % Ethyl Benzene	Weight % Triethylamine	Weight % Butoxyethanol	Weight % Methanol	Glycol Ether Weight %	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Chlorobenzene Emissions (ton/yr)	Ethyl Benzene Emissions (ton/yr)	Triethylamine Emissions (ton/yr)	Butoxyethoxyethanol Emissions (ton/yr)	Methanol Emissions (ton/yr)	Glycol Ether Emissions (ton/yr)	
Basecoat	AN Earhttone Brown 630-D029-146	9.26	0.1600	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	4.35%	0.03%	0.00	0.00	0.00	0.00	0.00	0.12	3.95	0.02	
Wiping Glaze	AN Dark & Red Mahogany Wiping Glaze, 644-8029-2	8.48	0.0200	14	0.00%	0.00%	0.00%	0.00%	0.29%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	
Stain	AN Breeze Golden Oak Spray Stain, 622-D029-14	8.43	0.1000	14	0.00%	0.00%	0.00%	0.00%	0.29%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	
Top Coat New	AN 30 Sheen 2K W/B Topcoat 670-30L029-34	8.62	0.3000	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.14%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-38	9.63	0.0210	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Adhesive Promoter	AN Adhesion Promoter 50-C029-1715	7.31	0.0013	14	11.89%	81.13%	0.28%	1.70%	0.00%	0.00%	0.00%	0.00%	0.07	0.47	0.00	0.01	0.00	0.00	0.00	0.00	
Acetone	AN Acetone 50-L029-280	6.59	0.0234	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Mineral Spirits	Mineral Spirits	6.54	0.0117	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Uncontrolled Potential Emissions													0.07	0.47	0.00	0.01	0.18	0.12	3.95	0.25	

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lb

**Appendix A: Emissions Calculations
VOC and Particulate
From Lowes Coating Line**

Company Name: **Therma Tru Corporation**
Address City IN Zip: **601 RE Jones Road, Butler, Indiana 46721**
Source Modification Number: **033-34988-00019**
Permit Modification Number: **033-34996-00019**
Reviewer: **Brian Williams**

TLI Automatic Line (5 booths): Coating Door Units - Before Control

Type of Coating	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Basecoat	AN Earthtone Brown 630-D029-14f	9.26	62.62%	55.8%	6.8%	71.2%	28.81%	0.1600	60	2.18	0.63	6.03	144.82	26.43	72.76	2.18	50%
Basecoat	AN White High Hide Basecoat 630-W029-15c	12.10	39.91%	35.7%	4.2%	51.9%	40.73%	0.1600	60	1.06	0.51	4.88	117.12	21.37	152.87	1.25	50%
Glaze	AN Phase II Walnut W/B Wiping Glaze 644-D029-18E	9.81	53.96%	50.9%	3.1%	60.0%	36.43%	0.0200	60	0.75	0.30	0.36	8.65	1.58	11.87	0.82	50%
Top Coat	AN Gloss 2K W/B Topcoat 670-HL029-15	8.60	77.13%	72.3%	4.8%	74.7%	20.06%	0.3000	60	1.63	0.41	7.44	178.63	32.60	77.52	2.06	50%
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-3f	9.63	0.00%	0.0%	0.0%	0.0%	100.00%	0.0210	60	0.00	0.00	0.00	0.00	0.00	26.57	0.00	50%
Adhesive Promoter **	AN Adhesion Promoter 50-C029-171f	7.31	95.00%	0.0%	95.0%	0.0%	4.54%	0.0013	60	6.94	6.94	0.54	13.00	2.37	0.06	152.96	50%
Acetone	AN Acetone 50-L029-28c	6.59	0.00%	0.0%	0.0%	0.0%	0.00%	0.0234	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%
Alcohol	AN Alcohol 50-L029-27z	6.54	100.00%	0.0%	100.0%	0.0%	0.00%	0.0117	60	6.54	6.54	4.59	110.19	20.11	0.00	0.00	100%

State Potential Emissions Add worst case coating to all solvents **18.97** **455.28** **83.09** **268.90**

TLI Automatic Line (5 booths): Coating Patio Skin Units - Before Control

Type of Coating	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Polycoat	SW Polane F63UXN8746-140Z	11.14	30.34%	0.0%	30.3%	0.0%	53.00%	0.0198	50	3.38	3.38	3.35	80.31	14.66	16.82	6.38	50%
Polycoat	SW Polane F63UXW8784-140Z	12.03	26.18%	0.0%	26.2%	0.0%	56.00%	0.0198	50	3.15	3.15	3.12	74.83	13.66	19.25	5.62	50%

State Potential Emissions Add worst case coating to all solvents **3.35** **80.31** **14.66** **19.25**

TLI Manual Booths (2 slow moving product booths & paint kitchen): Coating Door Units - Before Control

Type of Coating	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Basecoat	AN Earthtone Brown 630-D029-14f	9.3	62.62%	55.8%	6.8%	71.2%	28.81%	0.1600	14	2.19	0.63	1.41	33.95	6.20	16.98	2.19	50%
Basecoat	AN White High Hide Basecoat 630-W029-15c	12.1	39.91%	35.7%	4.2%	51.9%	40.73%	0.1600	14	1.06	0.51	1.14	27.39	5.00	35.67	1.25	50%
Glaze	AN Phase II Walnut W/B Wiping Glaze 644-D029-18E	9.8	53.96%	50.9%	3.1%	60.0%	36.43%	0.0200	14	0.75	0.30	0.08	2.02	0.37	2.77	0.82	50%
Top Coat	AN Gloss 2K W/B Topcoat 670-HL029-15	8.6	77.13%	72.3%	4.8%	74.7%	20.06%	0.3000	14	1.64	0.42	1.74	41.87	7.64	18.09	2.07	50%
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-3f	0.0	0.00%	0.0%	0.0%	0.0%	0.00%	0.0210	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50%
Adhesive Promoter **	AN Adhesion Promoter 50-C029-171f	7.3	95.00%	0.0%	95.0%	0.0%	4.54%	0.0013	14	6.94	6.94	0.13	3.03	0.55	0.01	152.96	50%
Acetone	AN Acetone 50-L029-28c	6.6	0.00%	0.0%	0.0%	0.0%	0.00%	0.0234	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%
Alcohol	AN Alcohol 50-L029-27z	6.5	100.00%	0.0%	100.0%	0.0%	0.00%	0.0117	14	6.54	6.54	1.07	25.71	4.69	0.00	0.00	100%

State Potential Emissions Add worst case coating to all solvents **4.44** **106.58** **19.45** **56.54**

**This coating is only used when coating plastic parts

344.69

METHODOLOGY

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % water) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hour)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/d)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lb)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1 - Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lb)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solid)
 Total = Worst Coating + Sum of all solvents use

**Appendix A: Emission Calculations
HAP Emission Calculations
From Lowes Coating Line**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

TLI Automatic Line (5 booths): Coating Door Units

Type of Coating	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Chlorobenzene	Weight % Ethyl Benzene	Weight % Triethylamin	Weight % Butoxyethano	Weight % Methanol	Glycol Ether Weight %	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Chlorobenzene Emissions (ton/yr)	Ethyl Benzene Emissions (ton/yr)	Triethylamine Emissions (ton/yr)	Butoxyethoxyethanol Emissions (ton/yr)	Methanol Emissions (ton/yr)	Glycol Ether Emissions (ton/yr)	
Basecoat	AN Earthtone Brown 630-D029-146	9.26	0.1600	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	4.35%	0.03%	0.00	0.00	0.00	0.00	0.00	0.00	0.52	16.94	0.10
Basecoat	AN White High Hide Basecoat 630-W029-155	12.1	0.1600	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	2.69%	0.02%	0.00	0.00	0.00	0.00	0.00	0.07	0.00	13.70	0.08
Glaze	AN Phase II Walnut W/B Wiping Glaze 644-D029-188	9.81	0.0200	60	0.00%	0.00%	0.00%	0.00%	0.18%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Coat	AN Gloss 2K W/B Topcoat 679-HL029-15	8.6	0.3000	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-38	9.63	0.0210	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adhesive Promoter **	AN Adhesion Promoter 50-C029-1715	7.31	0.0013	60	11.89%	81.13%	0.28%	1.70%	0.00%	0.00%	0.00%	0.00%	0.30	2.03	0.01	0.04	0.00	0.00	0.00	0.00	0.00
Acetone	AN Acetone 50-L029-280	6.59	0.0234	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alcohol	AN Alcohol 50-L029-272	6.54	0.0117	60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total State Potential Emissions

0.30 2.03 0.01 0.04 0.09 1.26 16.94 0.10

TLI Automatic Line (5 booths): Patio Skin Units

Type of Coating	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Formaldehyde	Weight % Benzene	Weight % Hexane	Weight % Glycol Ethers	Weight % Methanol	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Benzene Emissions (ton/yr)	Hexane Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)	Methanol Emissions (ton/yr)
Polycat	SW Polane F63UXN8746-1402	11.14	0.0198	50	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Polycat	SW Polane F63UXW8784-1402	12.03	0.0198	50	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total State Potential Emissions

0.00 0.00 0.00 0.00 0.00 0.00

TLI Manual Booths (2 slow moving product booths & paint kitchen): Coating Door Unit

Type of Coating	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Chlorobenzene	Weight % Ethyl Benzene	Weight % Triethylamin	Weight % Butoxyethano	Weight % Methanol	Glycol Ether Weight %	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Chlorobenzene Emissions (ton/yr)	Ethyl Benzene Emissions (ton/yr)	Triethylamine Emissions (ton/yr)	Butoxyethoxyethanol Emissions (ton/yr)	Methanol Emissions (ton/yr)	Glycol Ether Emissions (ton/yr)
Basecoat	AN Earthtone Brown 630-D029-146	9.26	0.1600	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	4.35%	0.03%	0.00	0.00	0.00	0.00	0.00	0.12	3.95	0.02
Basecoat	AN White High Hide Basecoat 630-W029-155	12.1	0.1600	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	2.69%	0.01%	0.00	0.00	0.00	0.00	0.00	0.02	3.20	0.02
Glaze	AN Phase II Walnut W/B Wiping Glaze 644-D029-188	9.81	0.0200	14	0.00%	0.00%	0.00%	0.00%	0.18%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Top Coat	AN Gloss 2K W/B Topcoat 679-HL029-15	8.6	0.3000	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00
Top Coat Activator	AN W/B Urethane Catalyst 649-PJ029-38	9.63	0.0210	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adhesive Promoter **	AN Adhesion Promoter 50-C029-1715	7.31	0.0013	14	11.89%	81.13%	0.28%	1.70%	0.00%	0.00%	0.00%	0.00%	0.07	0.47	0.00	0.01	0.00	0.00	0.00	0.00
Acetone	AN Acetone 50-L029-280	6.59	0.0234	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Alcohol	AN Alcohol 50-L029-272	6.54	0.0117	14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total State Potential Emissions

0.07 0.47 0.00 0.01 0.02 0.29 3.95 0.02

**This coating is only used when coating plastic parts

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lb

**Appendix A: Emissions Calculation:
VOC and Particulate
TLI-8 Surface Coating Operations**

Company Name: **Therma Tru Corporation**
Address City IN Zip: **601 RE Jones Road, Butler, Indiana 46721**
Source Modification Number: **033-34988-00019**
Permit Modification Number: **033-34996-00019**
Reviewer: **Brian Williams**

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	Transfer Efficiency
AN Earthone Brown 630-D029-146	9.3	62.58%	55.8%	6.8%	0.0%	28.81%	0.16000	7.000	0.63	0.63	0.70	16.88	3.08	8.50	50%
AN White High Hide Basecoat 630-W029-155	12.1	4.10%	0.0%	4.1%	0.0%	0.00%	0.16000	7.000	0.50	0.50	0.56	13.43	2.45	28.46	50%
AN Phase II Walnut W/B Wiping Glaze 644-D029-188	9.8	53.97%	50.9%	3.1%	0.0%	59.96%	0.02000	7.000	0.30	0.30	0.04	1.01	0.18	1.38	50%
AN Gloss 2K W/B Topcoat 670-HL029-15	8.6	77.11%	72.3%	4.8%	0.0%	20.06%	0.30000	7.000	0.41	0.41	0.87	20.85	3.80	9.05	50%
AN W/B Urethane Catalyst 649-PJ029-38	9.6	0.00%	0.0%	0.0%	0.0%	100.00%	0.02100	7.000	0.00	0.00	0.00	0.00	0.00	3.10	50%
AN Adhesion Promoter 50-C029-1715	7.3	95.00%	0.0%	95.0%	0.0%	4.54%	0.00130	7.000	6.94	6.94	0.06	1.52	0.28	0.01	50%
AN Acetone 50-L029-280	6.6	0.00%	0.0%	0.0%	0.0%	0.00%	0.02340	7.000	0.00	0.00	0.00	0.00	0.00	0.00	100%
AN Alcohol 50-L029-272	6.5	100.00%	0.0%	100.0%	0.0%	0.00%	0.01170	7.000	6.54	6.54	0.54	12.86	2.35	0.00	100%

Potential Emissions **Worst case coating to all solvents** **2.77** **66.54** **12.14** **50.51**

METHODOLOGY

Controlled particulate emissions **3.03**

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/da)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lb)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (1 - Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lb)
Total = Worst Coating + Sum of all solvents usec
Controlled Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs) * (1-control efficient)
Control Efficiency = 94%

**Appendix A: Emissions Calculations
HAP Emission Calculations
From TLI-8 Surface Coating Operations**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Formaldehyde	Weight % Benzene	Weight % Hexane	Weight % Glycol Ethers	Weight % Methanol	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Benzene Emissions (ton/yr)	Hexane Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)	Methanol Emissions (ton/yr)
AN Earthone Brown 630-D029-146	9.3	0.16000	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.14%	4.35%	0.00	0.00	0.00	0.00	0.00	0.06	1.98
AN White High Hide Basecoat 630-W029-155	12.1	0.16000	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AN Phase II Walnut W/B Wiping Glaze 644-D029-188	9.8	0.02000	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AN Gloss 2K W/B Topcoat 670-HL029-15	8.6	0.30000	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	0.00%	0.00	0.00	0.00	0.00	0.00	0.09	0.00
AN W/B Urethane Catalyst 649-PJ029-38	9.6	0.02100	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AN Adhesion Promoter 50-C029-1715	7.3	0.00130	7.000	11.89%	81.13%	0.00%	1.70%	0.00%	0.00%	0.00%	0.03	0.24	0.00	0.00	0.00	0.00	0.00
AN Acetone 50-L029-280	6.6	0.02340	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AN Alcohol 50-L029-272	6.5	0.01170	7.000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Potential Emissions

0.03 0.24 0.00 0.00 0.00 0.15 1.98

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
VOC and Particulate
From CD-Spray Booth**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

Concrete Door Glue Operation: Coating Door Skin Units

Type of Coating	Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
GLUE	PPG T7850 Trim-Bond Contact Adh.	8.85	51.03%	44.7%	6.3%	47.5%	45.22%	0.2000	24	1.06	0.56	2.67	64.13	11.70	45.56	1.23	50%
	HB FULLER WB3628 MY 449	8.90	45.00%	39.7%	5.3%	47.5%	55.00%	0.0900	150	0.90	0.47	6.37	152.83	27.89	86.83	0.86	70%

**Uncontrolled 9.04 216.96 39.59 132.39
Controlled 9.04 216.96 39.59 6.62**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1-Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
 Total = Worst Coating + Sum of all solvents used

Concrete Door Glue Operation: Coating Door Skin Units

Type of Coating	Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Glycol Ether	Glycol Ether Emissions (ton/yr)
GLUE	PPG T7850 Trim-Bond Contact Adh.	8.85	0.2000	24	0.00%	0.00

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lb:

**Appendix A: Emissions Calculations
Foaming Operations (SF-2 and FF-2)
MDI Emissions**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

ADL Foam Press (SF-2)

MDI/VOC Calculation

Maximum Lbs of Foam per door	10.0 lbs
Doors per hour	360
Lbs of Foam per hour	3600
Reporting Guideline SPI (emission factor)	0.67 lb/MMlbs of foam
PTE for MDI/VOC (lb/hr)	0.002 lb/hr
Hours of operation	8760
PTE for MDI/VOC (lb/yr)	21.13 lb/yr
PTE for MDI/VOC (ton/yr)	0.0106 ton/yr

CDL Foam Press (FF-2)

MDI/VOC Calculation

Maximum Lbs of Foam per door	10.0 lbs
Doors per hour	360
Lbs of Foam per hour	3600
Reporting Guideline SPI (emission factor)	0.67 lb/MMlbs of foam
Hours of operation	8760
PTE for MDI/VOC (lb/hr)	0.002 lb/hr
PTE for MDI/VOC (lb/yr)	21.13 lb/yr
PTE for MDI/VOC (ton/yr)	0.0106 ton/yr

Emission factors provided by the source are based on MDI/Polymeric MDI Emissions Reporting Guidelines for the Polyurethane Industry.

$$\text{PTE for MDI/VOC (ton/yr)} = \text{Doors per hour} \times \text{Maximum lbs of Foam per door} \times (1/1000,000) \text{ (lb/MMlbs)} \times \text{emission factor (lb/MMlbs of foam)} \times 8760 \text{ (hr/yr)} / 2000 \text{ (lb/ton)}$$

**Appendix A: Emissions Calculations
VOC Emissions
Door Assembly Lines - Foaming**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

Unit ID	Line	Maximum Production Rate (units/hour)	Aver Amount Foam Used per Unit (lbs/unit)	Foam Usage (lbs/hour)	Potential Foam Usage (lbs/year)	Percentage of Blowing Agent in Foam (% by weight)	VOC Release Rate (%) ¹	VOC Content % of Blowing Agent	Potential VOC Emissions (lbs/hour) ²	Potential VOC Emissions (lbs/year) ²	Potential VOC Emissions (tons/year) ²	Anticipated Actual VOC Emissions (ton/yr) ³
SF-2	ADL	360.0	5.0	1800.0	15,768,000.0	6.00	5.00	100.00	5.40	47,304.00	23.65	12.50
D2-F1	BDL	360.0	5.0	1800.0	15,768,000.0	6.00	5.00	100.00	5.40	47,304.00	23.65	12.50
FF-2	CDL	360.0	5.0	1800.0	15,768,000.0	6.00	5.00	100.00	5.40	47,304.00	23.65	12.50
Total									16.20	141,912.00	70.96	37.50

Notes:

Maximum production rate and foam usage per unit was supplied by Therma Tru

¹ VOC release rate (5%) based on documentation provided by Cannon USA, See Process Description

²Potential emissions based on operating at maximum production rates for 8,760 hours per year.

³Actual emissions based on maximum 5,000,000 doors produced from all 3 lines per year.

Example CalculationsPotential VOC Emissions from A-Line

360 units/hour * 5.0 lbs of foam/unit * 6% Blowing Agent/100 * 5% VOC Release Rate/100 * 1 ton/2,000 lbs * 8,760 hour/year= 23.65 tons of VOC/yea

Actual VOC Emissions from A-Line

5.0 lbs of foam/unit * 6% Blowing Agent/100 * 5% VOC Release Rate/100 * 1 ton/2,000 lbs * (5,000,000 doors per year/3 productions line) = 12.50 tons of VOC/yea

**Appendix A: Emissions Calculations
Particulate Emissions
From Calcium Carbonate Silos**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	Emission Rate before Controls (lb/hr)	Emission Rate before Controls (tons/yr)	Emission Rate after Controls (lb/hr)	Emission Rate after Controls (tons/yr)	Limited Emission Rate (lb/hr)	Limited Emission Rate (tons/yr)
SILO1	99.0%	0.010	2000.0	17.1	75.09	0.171	0.751	0.17	0.751
SILO2	99.0%	0.010	2000.0	17.1	75.09	0.171	0.751	0.17	0.751
Total				34.3	150.2	0.3	1.5	0.3	1.5

METHODOLOGY

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains);
Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

**Appendix A: Emissions Calculations
From SMC Production**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Material	SMC Usage (lbs/hour)	SMC Usage (tons/hour)	Emission Factor (lbs/ton)	Potential Emissions (lb/hr)	Potential Emissions (tons/yr)
Resin Storage Tanks					
VOC	18,500	9.25	0.059	0.546	2.39
Styrene	18,500	9.25	0.059	0.546	2.39
Resin mixture					
VOC	18,500	9.25	0.19	1.758	7.70
Styrene	18,500	9.25	0.19	1.758	7.70
SMC Extruder					
VOC	18,500	9.25	0.30	2.775	12.2
Styrene	18,500	9.25	0.30	2.775	12.2
SMC Holding Area					
VOC	18,500	9.25	0.0018	0.017	0.073
Styrene	18,500	9.25	0.0018	0.017	0.073
State Potential Emissions				Total VOC:	22.32
				Total Styrene	22.32

METHODOLOGY

Potential Emissions Pounds per Hour = Tons of material used per hour * Emission factor (lbs/ton)

Potential VOC Tons per Year = Potential VOC Pounds per hour * 8760 hrs/yr / 2000 lbs/ton

Emission Factors are based on "Q and A: Composites Manufacturing Emissions" published by the CFA in 1999

Emission factors for the Mixing Station are based on emission factors approved by the Ohio EPA for the same process. These factors were based on a stack test.

**Appendix A: Emissions Calculations
Fiberglass Press Operations**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Press ID	Installation Date	SMC Capacity (lbs/hr)	Max VOC Content (Styrene) (%)	Emission Factor (%)	VOC and Styrene Potential (lbs/hr)	VOC and Styrene Potential (tons/yr)
1	1989	1,067	10.9%	3.0%	3.49	15.28
2	1989	1,067	10.9%	3.0%	3.49	15.28
3	1989	1,067	10.9%	3.0%	3.49	15.28
4	1989	1,067	10.9%	3.0%	3.49	15.28
5	1989	1,067	10.9%	3.0%	3.49	15.28
6	1989	1,067	10.9%	3.0%	3.49	15.28
7	1989	1,067	10.9%	3.0%	3.49	15.28
8	1989	1,067	10.9%	3.0%	3.49	15.28
				Subtotal	27.91	122.26
9	1999	862.5	12.0%	3.0%	3.11	13.60
11	2000	1,067	10.9%	3.0%	3.49	15.28
12	2000	1,067	10.9%	3.0%	3.49	15.28
13	2000	1,067	10.9%	3.0%	3.49	15.28
14	2000	1,067	10.9%	3.0%	3.49	15.28
				Subtotal	13.96	61.13
15	2001	1,067	10.9%	3.0%	3.49	15.28
16	2001	1,067	10.9%	3.0%	3.49	15.28
				Subtotal	6.98	30.56
17	2002	1,067	10.9%	3.0%	3.49	15.28
18	2002	1,067	10.9%	3.0%	3.49	15.28
19	2002	1,067	10.9%	3.0%	3.49	15.28
20	2002	1,067	10.9%	3.0%	3.49	15.28
				Subtotal	13.96	61.13
					17-20 Limit:	40.00
21	2005	1,067	10.9%	3.0%	3.49	15.28
22	2005	1,067	10.9%	3.0%	3.49	15.28
23	2005	1,067	10.9%	3.0%	3.49	15.28
24	2005	1,067	10.9%	3.0%	3.49	15.28
25	2005	1,067	10.9%	3.0%	3.49	15.28
				Subtotal	17.45	76.41
					21-25 Limit:	37.68
26	2014	1,067	10.9%	3.0%	3.49	15.28
27	2014	1,067	10.9%	3.0%	3.49	15.28
28	2014	1,067	10.9%	3.0%	3.49	15.28
29	2014	1,067	10.9%	3.0%	3.49	15.28
				Subtotal	13.96	61.13
Total						426.22

METHODOLOGY

IDEM approved emission factor taken from the former AP-42 Ch 4.4 for closed molding operations
Potential Emissions (lbs/hour) = SMC Capacity (lbs/hour) * VOC (Styrene) Content (%) * Emission Factor (%)
Potential Emissions (tons/year) = Potential Emissions (lbs/hour) * 8,760 hours/year / 2000 lbs/ton
All VOC is Styrene
SMC capacity and VOC/Styrene content is dependent on the size of mold used. The capacity and content used above represent the combination which results in the worst case emissions for each press.

**Appendix A: Emissions Calculations
Particulate Emissions
Dry Additive Mixer (SMCDM-1)**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

SMC Dry Collections = 3,300 lb supersack unloading per 10 hours = 33 lb/hr	
= 33 lb/hr x 8760 hours/yr =	289,080 lb/yr (throughput)
= 3 % loss factor potentially=	4.34 ton/yr Uncontrolled PM/PM10
= 99 % control efficiency=	0.04 ton/yr After Control PM/PM10

Methodology

The loss factor (emission factor) has been provided by the source.

Uncontrolled Emissions = supersack unloading (lb/hr) x loss factor (0.03 lb/lbs of supersack unloading) x (1/2000) (lb/ton) x 8760 (hr/yr)

Controlled PTE = Uncontrolled PTE X (1-Filter Efficiency)

**Appendix A: Emissions Calculations
From FMC Production
Particulate Emissions**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

Emission Unit	Maximum Resin Production Rate (lb/day)	Maximum Resin Throughput (ton/hr)	Maximum Resin Throughput (ton/yr)	PM Emission Factor (lb/ton)	PM10/PM2.5 (lb/ton)	Uncontrolled PM (ton/yr)	Uncontrolled PM10/2.5 (ton/yr)
Raw Material Handling							
Resin Storage	90,000	1.875	16,425	0.2	0.2	1.64	1.64

Methodology

Emission Factors for Resin Storage from AP-42, Chapter 11.13-2, Glass Fiber Manufacturing (SCC 3-05-012-22)

Assume PM10 and PM2.5 are equal to PM

Potential Emissions (ton/yr) = Throughput (ton/yr) * Emission factor (lb/ton) / 2000 (lbs/ton)

**Appendix A: Emissions Calculations
From FMC Production
VOC and HAP Emissions**

**Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams**

Resin Production Rate 90,000 lb/day
Styrene/VOC Content of SMC 12.0 %
Styrene/VOC Content of FMC 8.034 %

Material	BMC Usage (lbs/hour)	BMC Usage (tons/hour)	VOC/HAP Emission Factors for SMC (lbs/ton) 1 & 2	Ratio of Styrene from BMC to SMC	Emission Factor for BMC (lbs/ton) ³	Potential Emissions (lb/hr)	Potential VOC/HAP Emissions (tons/year)
Resin Storage Tanks - Filling							
VOC	3,750	1.875	0.059	0.6695	0.040	0.074	0.324
Styrene	3,750	1.875	0.059	0.6695	0.040	0.074	0.324
Resin Mixture							
VOC	3,750	1.875	0.19	0.6695	0.127	0.239	1.045
Styrene	3,750	1.875	0.19	0.6695	0.127	0.239	1.045
Extruder							
VOC	3,750	1.875	0.30	0.6695	0.20	0.377	1.649
Styrene	3,750	1.875	0.30	0.6695	0.20	0.377	1.649
Holding Area							
VOC	3,750	1.875	0.0018	0.6695	0.0012	0.002	0.010
Styrene	3,750	1.875	0.0018	0.6695	0.0012	0.002	0.010
Total VOCs						0.691	3.028
Total Styrene						0.691	3.028

Notes

1. Emission Factors for SMC Production are based on "Q and A: Composites Manufacturing Emissions" published by the CFA in 1999
2. Emission Factors for the Mixing Station are based on emission factors approved by the Ohio EPA for the same process. These factors were based on a stack test
3. Emission Factors for FMC are estimated using a ratio of the styrene content of the FMC to SMC.

Methodology

Ratio of Styrene from FMC to SMC = % Styrene of FMC / % Styrene of SMC
FMC Emission Factor (lbs/ton) = SMC Emission Factor (lbs/ton) x Ratio of Styrene from FMC to SMC
Potential Emissions (lb/hr) = Throughput (ton/hr) x Emission factor (lb/ton)
Potential Emissions (ton/yr) = Throughput (ton/hr) x Emission factor (lb/ton) x 8,760 (hr/yr) / 2,000 (lbs/ton)

**Appendix A: Emissions Calculations
Particulate Emissions
From Machining, Sawing, and Sanding**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Process	Throughput (units/hr)	Process Weight Rate (lbs/hr)	Emission Rate (lbs/unit)	Control Efficiency (%)	Potential Emissions (lbs/hour)	Potential Emissions (tons/year)	Potential Emissions after Control (lbs/hour)	Potential Emissions after Control (tons/year)	Limited Emissions (lbs/hour)	Limited Emissions (tons/year)	
DC1 Control Device											
ADL DMC (EU4)	360.00	16,200	0.321	99.0%	115.56	506.15	1.156	5.06	16.170	70.82	
DC2 Control Device											
BDL DMC (D2-MS1)	360.00	18,000	0.706	99.0%	254.16	1113.22	2.542	11.13	2.54	11.13	
BDL OLB (D2-MS1-1)	360.00	18,000	0.500	99.0%	180.00	788.40	1.800	7.88	1.80	7.88	
					Subtotal	434.16	1,901.62	4.34	19.02	4.34	19.02
DC5 Control Device											
Thermwood 1 (PA-2)	11.25	765	0.300	99.0%	3.38	14.78	0.03	0.15	0.62	2.73	
New KVAL (CO-3)	50.00	2,450	0.980	99.0%	49.00	214.62	0.49	2.15			
C.R. Onsrud #1 (CNC-1)	18.00	975	0.550	99.0%	9.90	43.36	0.10	0.43			
					Subtotal	62.28	272.76	0.62	2.73	0.62	2.73
DC6 Control Device											
C.R. Onsrud #2 (PA-1)	11.25	765	0.300	99.0%	3.38	14.78	0.03	0.15	1.63	7.15	
Auto KVAL (CO-1)	50.00	2,450	0.980	99.0%	49.00	214.62	0.49	2.15			
Cut out Next (CO-2)	50.00	2,450	0.980	99.0%	49.00	214.62	0.49	2.15			
C12 (CO-4)	50.00	2,450	0.980	99.0%	49.00	214.62	0.49	2.15			
Miscellaneous TLI machining				99.0%	3.00	13.14	0.03	0.13			
CNC-2	18.00	975	0.550	99.0%	9.90	43.36	0.10	0.43			
					Subtotal	163.28	715.14	1.63	7.15	1.63	7.15
D-Saw (DCS-1)											
D-Saw (DCS-1)	130.00	2,470	0.247	98.0%	32.11	140.64	0.642	2.813	0.64	2.81	
F-Saw (DCS-2) - Fiberglass											
F-Saw (DCS-2) - Fiberglass	130	2,470	0.247	99%	32.11	140.64	0.321	1.406	0.32	1.41	
CDL DMC (FDMC-2A) - Fiberglass, Foam, & Wood											
CDL DMC (FDMC-2A) - Fiberglass, Foam, & Wood	360	18,000	0.706	99%	254.16	1113.22	2.542	11.132	2.54	11.13	
CDL OLB (FDMC-2B) - Wood											
CDL OLB (FDMC-2B) - Wood	360	18,000	0.5	99%	180.00	788.40	1.800	7.884	1.80	7.88	
Miscellaneous Sawing/Trimming (MS 2) - Steel, Fiberglass, Wood & Foam											
Miscellaneous Sawing/Trimming (MS 2) - Steel, Fiberglass, Wood & Foam	130	2,470	0.375	99%	48.75	213.53	0.488	2.135	0.49	2.14	
ADL OLB (SDMC-2A) - Wood or Wood Composite											
ADL OLB (SDMC-2A) - Wood or Wood Composite	360	16,200	0.01	86%	3.60	15.77	0.504	2.208	1.80	7.88	
ADL OLB (SDMC-2B) - Wood or Wood Composite											
ADL OLB (SDMC-2B) - Wood or Wood Composite	360	16,200	0.04	86%	14.40	63.07	2.016	8.830	0.10	0.44	
					Subtotal	565.13	2,475.27	8.31	36.41	7.69	33.69
CY-3 Cyclone											
TLI Cutout	25	1,375	0.98	86%	24.50	107.31	3.43	15.02	3.43	15.02	
TLI Miscellaneous Sawing/Trimming											
TLI Miscellaneous Sawing/Trimming	30	1,650	0.375	86%	11.25	49.28	1.58	6.90	1.80	7.88	
					Subtotal	35.75	156.59	5.01	21.92	5.23	22.91
Insignificant Activities											
Fiberglass Skin Cut Down Saws (FS-1)	16.91	321	0.077	98.0%	1.30	5.70	0.026	0.114	0.03	0.11	
Fiberglass Skin Cut Down Saws (FS-2)	16.91	321	0.171	98.0%	2.89	12.67	0.058	0.253	0.06	0.25	
Fiberglass Skin Cut Down Saws (FS-3)	16.91	321	0.171	98.0%	2.89	12.67	0.058	0.253	0.06	0.25	
Sanding Booth (FS-4)	16.91	321	0.171	98.0%	2.89	12.67	0.058	0.253	0.06	0.25	
					Subtotal	9.98	43.71	0.20	0.87	0.20	0.87

Total Potential to Emit tons/yr = 1,386.13 6,071.25 21.27 93.16 35.89 157.19

METHODOLOGY

Potential Emissions (lbs/hr) = Throughput (units/hr) x Emission Rate (lbs/unit)
 Potential Emissions (tons/year) = Potential Emissions (lbs/hr) x (8760 hours/year) x (1 ton/2000 lbs)
 Potential Emissions after Control (lbs/hr) = Potential Emissions (lbs/hr) * (1 - Control Efficiency %)
 Potential Emissions after Control (tons/year) = Potential Emissions after Control (lbs/hr) x (8760 hours/year) x (1 ton/2000 lbs)
 Emission rates based on engineering data. Worst case assumed: all material lost is considered potential particulate emissions.
 Emission rate for CD-1 based on AP-42 Table 11.12-2 (concrete batching)

**Appendix A: Emissions Calculations
VOC Emissions From Cold Cleaner**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Unit ID	Unit Description	Product Manufacturer	Product Name	Number of Cold Cleaner Degreaser Units	Net Product Usage per Degreaser	Total Product Usage	Density	Pounds VOC per gallon degreasing material	Average VOC Emissions	VOC Emissions	VOC Emissions
					gal/day	gal/day	lb/gal	lb/gal	(lb/hr)	(lb/day)	(tpy)
CC-2	Oscillating Cold Solvent Washer	Chemical Solvents, Inc.	TM1-138 (1-Methoxy-2-Propyl Acetate)	1	1.0	1.0	7.00	7.00	0.29	7.00	1.28

Methodology

Potential VOC Pounds per Day = Pounds VOC per gallon degreasing material (lb/gal) x usage rate (gal/day) x 365 (days/yr) x (1/2000) (lb/ton)

**Appendix A: Emission Calculation:
Reciprocating Internal Combustion Engines - Natural Gas
4-Stroke Rich-Burn (4SRB) Engines**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34988-00019
Reviewer: Brian Williams

Maximum Output Horsepower Rating (hp)	67
Brake Specific Fuel Consumption (BSFC) (Btu/hp-hr)	7900
Maximum Hours Operated per Year (hr/yr)	500
Potential Fuel Usage (MMBtu/yr)	265
High Heat Value (MMBtu/MMscf)	1020
Potential Fuel Usage (MMcf/yr)	0.26

Criteria Pollutants	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor (lb/MMBtu)	9.50E-03	1.94E-02	1.94E-02	5.88E-04	2.21E+00	2.96E-02	3.72E+00
Potential Emissions (tons/yr)	0.0013	0.003	0.003	7.78E-05	0.29	0.004	0.49

*PM emission factor is for filterable PM-10. PM10 emission factor is filterable PM10 + condensable PM
PM2.5 emission factor is filterable PM2.5 + condensable PM

Hazardous Air Pollutants (HAPs)

Pollutant	Emission Factor (lb/MMBtu)	Potential Emissions (tons/yr)
Acetaldehyde	2.79E-03	3.69E-04
Acrolein	2.63E-03	3.48E-04
Benzene	1.58E-03	2.09E-04
1,3-Butadiene	6.63E-04	8.77E-05
Formaldehyde	2.05E-02	2.71E-03
Methanol	3.06E-03	4.05E-04
Total PAH**	1.41E-04	1.87E-05
Toluene	5.58E-04	7.38E-05
Xylene	1.95E-04	2.58E-05
Total		4.25E-03

HAP pollutants consist of the nine highest HAPs included in AP-42 Table 3.2-3.

**PAH = Polycyclic Aromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Methodology

Emission Factors are from AP-42 (Supplement F, July 2000), Table 3.2-

Potential Fuel Usage (MMBtu/yr) = [Maximum Output Horsepower Rating (hp)] * [Brake Specific Fuel Consumption (Btu/hp-hr)] * [Maximum Hours Operated per Year (hr/yr)] / [1000000 Btu/MMT]

Potential Emissions (tons/yr) = [Potential Fuel Usage (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2000 lb/ton]

Greenhouse Gases (GHGs)	Greenhouse Gas (GHG)		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu*	110	1.25	
Emission Factor in lb/MMcf**			2.2
Potential Emission in tons/yr	14.56	0.17	0.00
Summed Potential Emissions in tons/yr	14.72		
CO2e Total in tons/yr	18.78		

Methodology

*The CO2 and CH4 emission factors are from Emission Factors are from AP-42 (Supplement F, July 2000), Table 3.2-2

**The N2O emission factor is from AP 42, Table 1.4-2. The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

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

For CO2 and CH4: Emission (tons/yr) = [Potential Fuel Usage (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

For N2O: Emission (tons/yr) = [Potential Fuel Usage (MMCF/yr)] * [Emission Factor (lb/MMCF)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
SO2 = Sulfur Dioxide

NOx = Nitrous Oxides
VOC = Volatile Organic Compounds
CO = Carbon Monoxide

CO2 = Carbon Dioxide
CH4 = Methane
N2O = Nitrous Oxide
CO2e = CO2 equivalent emissions

**Appendix A: Emissions Calculations
 Reciprocating Internal Combustion Engines - Diesel Fuel
 Output Rating (<=600 HP)
 Maximum Input Rate (<=4.2 MMBtu/hr)**

**Company Name: Therma Tru Corporation
 Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
 Source Modification Number: 033-34988-00019
 Permit Modification Number: 033-34996-00019
 Reviewer: Brian Williams**

Heat Input Capacity (MMBtu/hr)	1.19
Maximum Hours Operated per Year	500
Potential Throughput (MMBtu/yr)	597

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.31	0.31	0.31	0.29	4.41	0.36	0.95
Potential Emission in tons/yr	0.09	0.09	0.09	0.09	1.32	0.11	0.28

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/MMBtu	9.33E-04	4.09E-04	2.85E-04	3.91E-05	1.18E-03	7.67E-04	9.25E-05	1.68E-04
Potential Emission in tons/yr	2.79E-04	1.22E-04	8.51E-05	1.17E-05	3.52E-04	2.29E-04	2.76E-05	5.02E-05

Potential Emission of Total HAPs (tons/yr)								1.16E-03
---	--	--	--	--	--	--	--	-----------------

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu	1.64E+02	6.61E-03	1.32E-03
Potential Emission in tons/yr	48.98	1.98E-03	3.95E-04

Summed Potential Emissions in tons/yr		48.98
CO2e Total in tons/yr		49.14

Methodology

Per EPA Memorandum (09/06/1995), potential emissions were calculated based on 500 hours of operation per year since the generators are used solely to provide backup power.
 Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
 CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]
 Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emissions Calculations

Company Name: Therma Tru Corporation
 Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
 Source Modification Number: 033-34988-00019
 Permit Modification Number: 033-34996-00019
 Reviewer: Brian Williams

Complete List of Natural Gas Combustion Units

QTY	Location	Unit Type	MFG	BTU / HR - Each Unit	Model Number	Serial Number	MMBTU / HR	TOTAL MMBTU / HR
1	MRO Room	Air Handler	Arcoaire	125,000	GUF125A020AIN	R884400003	0.125	0.125
1	MRO Room	Air Handler	Arcoaire	50,000	GUF050A008AIN	R884400197	0.05	0.05
1	MRO Room	Air Handler	Arcoaire	125,000	FUG125A020AIN	R884400002	0.125	0.125
1	MRO Room	Air Handler	Trane	120,000	TUY120R9U5W1	2495YTE7G	0.12	0.12
1	MRO Room	Air Handler	Trane	80,000	TUY080R9U3W0	22958R97G	0.08	0.08
1	MRO Room	Air Handler	Arcoaire	200,000	GUF200A032GIN	R884200064	0.2	0.2
1	MRO Room	Water Heater	Vanguard	38,000	5AU69	VGLN0108418481	0.038	0.038
1	ETC Room	Air Handler	Trane	120,000	TUS120B960A0	E24617662	0.12	0.12
1	ETC Room	Air Handler	Trane	160,000	TUS160B960A0	E30632258	0.16	0.16
1	ETC Room	Air Handler	Trane	160,000	TUS160B960A0	E30632448	0.16	0.16
1	ETC Room	Air Handler	Trane	120,000	TUS120B960A0	E24617719	0.12	0.12
1	ETC Room	Air Handler	Trane	160,000	TUS160B960A0	E36032441	0.16	0.16
1	ETC Room	Air Handler	Trane	160,000	TUS160B960A0	E30632254	0.16	0.16
1	ETC Room	Air Handler	Bryant	132,000	316AA0066135ADJA	3608A16965	0.132	0.132
1	Door Break Room	Air Handler	Arcoaire	125,000	GUF125A020AIN	R884300088	0.125	0.125
1	Molding Break Room	Water Heater	A.O. Smith	75,000			0.075	0.075
1	Molding Break Room	Duct Furnace	Reznor	200,000	EED4200-6	AYG6632N10964	0.2	0.2
1	Top Molding Office	Furnace	Bryant	80,000	340MAU0480801	3101A10578	0.08	0.08
1	BDL	BDL Flame Treater	ThermaTru	600,000			0.6	0.6
1	CDL	CDL Flame Treater	ThermaTru	600,000			0.6	0.6
1	Door Plant Restroom	Water Heater	Vanguard	40,000	3BE21	0603143832	0.04	0.04
1	Door Plant Restroom	Furnace	Dayton	100,000	10EAMER	E450302F369701670	0.1	0.1
1	PHPF	Water Heater	Vanguard	36,000	310A60	VGLN0804401983	0.036	0.036
1	PHPF Loading Dock	Furnace		179,000	QUDF-110-HRS	00-78226	0.179	0.179
1	ADL Paint Line	ADL Paint Booth	Eclipse	2,000,000	200RM-S	93-3218	2	2
1	Split System Condensor/Air Handler	Outside Office	Arcoaire	125,000			0.125	0.125
9	Gas Fired Air Make Up Units	Roof Main Plant	Banaza	750,000	B2000		0.75	6.75
4	Gas Fired Air Make Up Units	Roof Main Plant	Applied Air	529,000	DFC115HRB HVM-A		0.529	2.116
2	Gas Fired Air Make Up Units	Roof Main Plant	Sterling	750,000	QVDFW118HRB		0.75	1.5
2	Gas Fired Air Make Up Units	Roof Main Plant	Sterling	550,000	QVDFW112HRB		0.55	1.1
2	Gas Fired Air Make Up Units	ADL	Applied Air	9,625,000			9.625	19.25
2	Gas Fired Air Make Up Units	PHPF	Applied Air	9,625,000			9.625	19.25
1	Rooftop Package Unit	Roof	Trane	600,000	YCD360A4HE1AZEC1000	C99L23799M	0.6	0.6
1	Rooftop Package Unit	Roof	Trane	600,000	YCD360A4HE1AZEC1000	C99L23798M	0.6	0.6
1	Rooftop Package Unit	Roof	Trane	600,000	YCD360A4HE1AZEC1000	C99L23797M	0.6	0.6
1	Rooftop Package Unit	Roof	Trane	400,000	YCD300B4HAFB	P46101498D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	400,000	YCD300B4HAFB	P46101569D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	400,000	YCD300B4HAFB	P45104277D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	400,000	YCD300B4HAFB	P50100621D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	400,000	YCD300B4HAFB	P45104236D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	400,000	YCD300B4HAFB	P45104263D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	assume 400,000	YCD240BY14AFB	P46102402D	0.4	0.4
1	Rooftop Package Unit	Roof	Trane	205,000	YCD090C4HABE	P48100057D	0.205	0.205
1	Rooftop Package Unit	Roof	Trane	205,000	YCD090C4HABE	P49101677D	0.205	0.205
2	Makeup Air Units	Plant East Side	Applied Air	9,625,000			9.625	19.25
1	Makeup Air Units	Roof	Absolute Air	600,000			0.6	0.6
1	Makeup Air Units	Roof	McQuay	1,000,000	RPS020BA	30G0012013	1	1
1	Makeup Air Units	Roof	Brasch	assume 1,000,000			1	1
1	curing oven, identified as D2-OV2						0.25	0.25
1	curing oven, identified as SCO-2						2	2
1	curing oven, identified as FCO-2						0.249	0.249
GRAND TOTAL								85.235

**Appendix A: Emissions Calculations
Natural Gas Combustion
MM BTU/HR <100**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
85.2	1020	732.0

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.7	2.8	2.8	0.2	**see below	2.0	30.7

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 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/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	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	7.686E-04	4.392E-04	2.745E-02	6.588E-01	1.244E-03	6.887E-01

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	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	1.830E-04	4.026E-04	5.124E-04	1.391E-04	7.686E-04	2.006E-03
					Total HAPs	6.907E-01
					Worst HAP	6.588E-01
					Hexane	

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

Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	43,921	0.8	0.8
Summed Potential Emissions in tons/yr	43,923		
CO2e Total in tons/yr	44,182		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

**Appendix A: Emissions Calculations
VOC Emissions From Storage Tanks**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Tank ID/Process ID	Description	Capacity (gallons)	PTE of VOC (tons/yr)
T001	Cyclopentane Storage Tank	12,000	2.01

Methodology

Emissions were calculated by the Source using EPA's Tanks 4.09(d) and have been verified by IDEM.

**Appendix A: Emissions Calculations
Modification Summary**

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Unlimited Potential to Emit of Modification (ton/year)										
Process	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Single HAP
SMC Presses (26 through 29)	0	0	0	0	0	61.13	0	0	61.13	61.13 Styrene
CNC Operation (CNC-2)	43.36	43.36	43.36	0	0	0	0	0	0	0
Total	43.36	43.36	43.36	0	0	61.13	0	0	61.13	61.13 Styrene

PTE Change of the Modified Process (ton/year)										
BPO2-9 - Before Modification	22.96	22.96	22.96	0	0	6.69	0	0	1.68	0.08 Glycol Ethers
BPO2-9 - After Modification	11.29	11.29	11.29	0	0	2.72	0	0	1.57	1.57 Glycol Ethers
Total PTE Increase for Modification	0	1.49 Glycol Ethers								

Appendix A: Emissions Calculations
Unlimited Potential to Emit of Entire Source

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Unlimited Potential to Emit (ton/year)											
Process	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Single HAP	
ADL Paint Line (SP-2)	508.16	508.16	508.16	0	0	122.45	0	0	70.52	70.52	Glycol Ethers
ADL Repair	11.29	11.29	11.29	0	0	2.72	0	0	1.57	1.57	Glycol Ethers
ADL GLG Adhesive (SA-2)	0	0	0	0	0	1.02	0	0	79.70	78.68	Toluene
BDL GLG Adhesive (D2-APP1)	0	0	0	0	0	22.79	0	0	22.79	22.62	MDI
CDL GLG Adhesive (FA-2)	0	0	0	0	0	0.15	0	0	12.08	11.92	Toluene
Conveyorized Coating Line (Auto Breeze Booths 1-6)	295.15	295.15	295.15	0	0	85.90	0	0	21.66	16.94	Methanol
Conveyorized Coating Line (Manual Breeze Booths 7-9)	68.87	68.87	68.87	0	0	20.07	0	0	5.05	3.95	Methanol
Lowes Coating Line (Auto)	268.90	268.90	268.90	0	0	83.09	0	0	20.76	16.94	Methanol
Lowes Coating Line (Manual)	56.54	56.54	56.54	0	0	19.45	0	0	4.84	3.95	Methanol
Lowes Coating Line (TLI Booth 8)	50.51	50.51	50.51	0	0	12.14	0	0	2.40	1.98	Methanol
CD-Spray Booth (CD-3)	132.39	132.39	132.39	0	0	39.59	0	0	0	0	
ADL, BDL, & CDL Foam Presses (SF-2, D2-F1, & FF-2)	0	0	0	0	0	70.98	0	0	0.02	0.02	MDI
SMC Production Line - Silos	150.17	150.17	150.17	0	0	0	0	0	0	0	
SMC Production Line - Resin Storage, Mixers, Extruder, & Holding	0	0	0	0	0	22.32	0	0	22.32	22.32	Styrene
SMC Presses - 1 through 29	0	0	0	0	0	426.22	0	0	426.22	426.22	Styrene
SMC Production Line - Dry Additive Mixer	4.34	4.34	4.34	0	0	0	0	0	0	0	
FMC Production Operation - Raw Material Handling	1.64	1.64	1.64	0	0	0	0	0	0	0	
FMC Production Operation - Resin Storage, Mixers, Extruder, & Holding	0	0	0	0	0	3.03	0	0	3.03	3.03	Styrene
ADL DMC (EU4)	506.15	506.15	506.15	0	0	0	0	0	0	0	
BDL DMC (D2-MS1)	1,113.22	1,113.22	1,113.22	0	0	0	0	0	0	0	
BDL OLB (D2-MS1-1)	788.40	788.40	788.40	0	0	0	0	0	0	0	
Thermwood 1 (PA-2), New KVAL (CO-3), C.R. Onsrud #1 (CNC-1)	272.76	272.76	272.76	0	0	0	0	0	0	0	
C.R. Onsrud #2 (PA-1), Auto KVAL, Cut out next, & C12 (CO-1, CO-2, & CO-4), Misc. TLI Machine, & CNC-2	715.14	715.14	715.14	0	0	0	0	0	0	0	
D-Saw (DCS-1)	140.64	140.64	140.64	0	0	0	0	0	0	0	
F-Saw (DCS-2)	140.64	140.64	140.64	0	0	0	0	0	0	0	
CDL DMC (FDMC-2A)	1,113.22	1,113.22	1,113.22	0	0	0	0	0	0	0	
CDL OLB (FDMC-2B)	788.40	788.40	788.40	0	0	0	0	0	0	0	
Miscellaneous											
Sawing/Trimming (MS-2)	213.53	213.53	213.53	0	0	0	0	0	0	0	
ADL OLB (SDMC-2A)	15.77	15.77	15.77	0	0	0	0	0	0	0	
ADL OLB (SDMC-2B)	63.07	63.07	63.07	0	0	0	0	0	0	0	
TLI Cutout (TLI Cutout)	107.31	107.31	107.31	0	0	0	0	0	0	0	
TLI Miscellaneous Sawing/Trimming	49.28	49.28	49.28	0	0	0	0	0	0	0	
Fiberglass Skin Cut Down Saws (FS-1)	5.70	5.70	5.70	0	0	0	0	0	0	0	
Fiberglass Skin Cut Down Saws (FS-2)	12.67	12.67	12.67	0	0	0	0	0	0	0	
Fiberglass Skin Cut Down Saws (FS-3)	12.67	12.67	12.67	0	0	0	0	0	0	0	
Sanding Booth (FS-4)	12.67	12.67	12.67	0	0	0	0	0	0	0	
Cold Cleaner	0	0	0	0	0	1.28	0	0	0	0	
Emergency Generator (EG-1)	0.001	0.003	0.003	negl.	0.29	0.004	0.49	18.78	negl.	negl.	
Emergency Generator (EG-2)	0.09	0.09	0.09	0.09	1.32	0.11	0.28	49.14	negl.	negl.	
Natural Gas Combustion	0.70	2.78	2.78	0.22	36.60	2.01	30.74	44,182	0.69	0.66	Hexane
Storage Tank (T001)	0	0	0	0	0	2.01	0	0	0	0	
Total	7,619.99	7,622.08	7,622.08	0.31	38.21	937.35	31.52	44,250.01	693.65	451.56	Styrene

Appendix A: Emissions Calculations
Limited Potential to Emit of Entire Source

Company Name: Therma Tru Corporation
Address City IN Zip: 601 RE Jones Road, Butler, Indiana 46721
Source Modification Number: 033-34988-00019
Permit Modification Number: 033-34996-00019
Reviewer: Brian Williams

Limited Potential to Emit (ton/year)											
Process	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Single HAP	
Coating Operations - SP-2, ADL Repair, Breeze Booth Line (1-8), Lowes Line (1-8), CD-3 ^{1,2}	78.00	78.00	78.00	0	0	241.00	0	0	125.24	72.10	Glycol Ethers
ADL GLG Adhesive (SA-2)	0	0	0	0	0		0	0	79.70	78.68	Toluene
BDL GLG Adhesive (D2-APP1)	0	0	0	0	0		0	0	22.79	22.62	MDI
CDL GLG Adhesive (FA-2)	0	0	0	0	0		0	0	12.08	11.92	Toluene
ADL, BDL, & CDL Foam Presses (SF-2, D2-F1, & FF-2)	0	0	0	0	0		0	0	0.02	0.02	MDI
SMC Production Line - Mixers & Extruder	0	0	0	0	0		0	0	19.85	19.85	Styrene
SMC Presses - 1 through 29	0	0	0	0	0		0	0	426.22	426.22	Styrene
FMC Production Operation - Resin Mixers & Extruder	0	0	0	0	0	0	0	2.69	2.69	Styrene	
SMC Production Line - Silos	1.50	1.50	1.50	0	0	0	0	0	0	0	
SMC Production Line - Resin Storage & Holding	0	0	0	0	0	2.46	0	0	2.46	2.46	Styrene
SMC Production Line - Dry Additive Mixer	0.04	0.04	0.04	0	0	0	0	0	0	0	
FMC Production Operation - Raw Material Handling	1.64	1.64	1.64	0	0	0	0	0	0	0	
FMC Production Operation - Resin Storage & Holding	0	0	0	0	0	0.33	0	0	0.33	0.33	Styrene
ADL DMC (EU4)	70.82	70.82	70.82	0	0	0	0	0	0	0	
BDL DMC (D2-MS1)	11.13	11.13	11.13	0	0	0	0	0	0	0	
BDL OLB (D2-MS1-1)	7.88	7.88	7.88	0	0	0	0	0	0	0	
Thermwood 1 (PA-2), New KVAL (CO-3), C.R. Onsrud #1 (CNC-1)	2.73	2.73	2.73	0	0	0	0	0	0	0	
C.R. Onsrud #2 (PA-1), Auto KVAL, Cut out next, & C12 (CO-1, CO-2, & CO-4), Misc. TLI Machine, & CNC-2	7.15	7.15	7.15	0	0	0	0	0	0	0	
D-Saw (DCS-1)	2.81	2.81	2.81	0	0	0	0	0	0	0	
F-Saw (DCS-2)	1.41	1.41	1.41	0	0	0	0	0	0	0	
CDL DMC (FDMC-2A)	11.13	11.13	11.13	0	0	0	0	0	0	0	
CDL OLB (FDMC-2B)	7.88	7.88	7.88	0	0	0	0	0	0	0	
Miscellaneous											
Sawing/Trimming (MS-2)	2.14	2.14	2.14	0	0	0	0	0	0	0	
ADL OLB (SDMC-2A)	7.88	7.88	7.88	0	0	0	0	0	0	0	
ADL OLB (SDMC-2B)	0.44	0.44	0.44	0	0	0	0	0	0	0	
TLI Cutout (TLI Cutout)	15.02	15.02	15.02	0	0	0	0	0	0	0	
TLI Miscellaneous											
Sawing/Trimming	7.88	7.88	7.88	0	0	0	0	0	0	0	
Fiberglass Skin Cut Down Saws (FS-1)	0.11	0.11	0.11	0	0	0	0	0	0	0	
Fiberglass Skin Cut Down Saws (FS-2)	0.25	0.25	0.25	0	0	0	0	0	0	0	
Fiberglass Skin Cut Down Saws (FS-3)	0.25	0.25	0.25	0	0	0	0	0	0	0	
Sanding Booth (FS-4)	0.25	0.25	0.25	0	0	0	0	0	0	0	
Cold Cleaner	0	0	0	0	0	1.28	0	0	0	0	
Emergency Generator (EG-1)	0.001	0.003	0.003	negl.	0.29	0.004	0.49	18.78	negl.	negl.	
Emergency Generator (EG-2)	0.09	0.09	0.09	0.09	1.32	0.11	0.28	49.14	negl.	negl.	
Natural Gas Combustion	0.70	2.78	2.78	0.22	36.60	2.01	30.74	44,182	0.69	0.66	Hexane
Storage Tank (T001)	0	0	0	0	0	2.01	0	0	0	0	
Total	239.2	241.3	241.3	0.31	38.2	249.2	31.5	44,250	692.1	451.6	Styrene

¹ The total PM/PM10 emissions from the Lowes Coating Line and CD-3 shall not exceed 15 tons per year.

² The input of VOC to the Lowes Coating Line (Booths 1 -8) shall not exceed 25 tons per year.



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

February 13, 2015

TO: Butler Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Therma Tru Corporation
Permit Number: 033-34996-00019

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 6/13/2013



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

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

TO: Rick Goodman
Therma Tru Corporation
601 RE Jones Road
Butler, IN 46721

DATE: February 13, 2015

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

SUBJECT: Final Decision
Significant Permit Modification
033-34996-00019

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:
Mike Daman – Plant Manager
David Jordan – Environmental Resources Management (ERM)
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	GHOTOPP 2/13/2015 Therma-Tru Corp. - Butler 033-34996-00019 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		Rick Goodman Therma-Tru Corp. - Butler 601 RE Jones Rd Butler IN 46721 (Source CAATS) via certified mail										
2		Mike Daman Plant Mgr Therma-Tru Corp. - Butler 601 RE Jones Rd Butler IN 46721 (RO CAATS)										
3		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)										
4		DeKalb County Commissioners 100 South Main Street Auburn IN 46706 (Local Official)										
5		Ms. Diane Leroy 303 N. Jackson St. Auburn IN 46706 (Affected Party)										
6		Mr. Barry Fordanish R#3 1480 CR 66 Auburn IN 46706 (Affected Party)										
7		Dekalb County Health Department 220 E 7th St #110 Auburn IN 46706 (Health Department)										
8		Butler Public Library 340 South Broadway Street Butler IN 46721-1308 (Library)										
9		Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)										
10		Brown & Sons Fuel Co. P.O. Box 665 Kendallville IN 46755 (Affected Party)										
11		David Jordan Environmental Resources Management (ERM) 11350 North Meridian, Suite 320 Carmel IN 46032 (Consultant)										
12		Mr. Marty K. McCurdy 2550 County Road 27 Waterloo IN 46793 (Affected Party)										
13		Butler City Council and Mayors Office 215 S. Broadway St. Butler IN 46721 (Local Official)										
14		DeKalb County Building Department 301 S Union St Auburn IN 46706 (Local Official)										
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
13			