



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 / Applicant
DATE: December 3, 2013
RE: Modern Door, Inc. / 141-33378-00553
FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot 6/13/13



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Michael R. Pence
Governor

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Commissioner

Minor Source Operating Permit OFFICE OF AIR QUALITY

**Modern Door, Inc
1300 Virginia Street
Walkerton, Indiana 46574**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M141-33378-00553	
Issued by:  Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 3, 2013 Expiration Date: December 3, 2018

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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary metal building components and exterior door manufacturing plant.

Source Address:	1300 Virginia Street, Walkerton, Indiana 46574
General Source Phone Number:	574-586-3117
SIC Code:	3442 (Metal Doors, Sash, and Trim)
County Location:	St. Joseph
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

Painting Operation

- (a) One (1) paint booth for large sheets, identified as PB-01, constructed in 2004, with a maximum capacity of 1.50 gal/hr, using a filter bank for particulate control, and exhausting to vent SV-PB-01.
- (b) One (1) paint booth for small stock and parts, identified as PB-02, approved for construction in 2013, with a maximum capacity of 1.50 gal/hr, using a filter bank for particulate control, and exhausting to vent SV-PB-02.

Metal Cutting /Machining and Metal Forming Operations

- (c) One (1) spray lubricator for metal forming, identified as SL-1, constructed in 2004, using .052 gallons spray lube per hour, with a maximum throughput capacity of 147.92 lbs/hr, using no control, and exhausting indoors.
- (d) One (1) aluminum roll former for metal forming with a maximum metal throughput capacity of 147.92 lbs/hr, identified as RF-1, constructed in 1997, using no control.
- (e) Five (5) metal cutting extrusion saws, identified as ES-1through ES-5, constructed in 1973, 1973, 1997, 1997, 2012 respectively with a maximum throughput capacity of 225 lbs/hr each, using no control devices, and exhausting indoors.

Welding

- (f) One (1) spot weld, identified as SW-1, constructed in 1978, with a maximum capacity of 0.89 lbs/hr of welding wire, using no control, and exhausting outdoors.

- (g) One (1) aluminum wall vent tack welder, identified as W-1, constructed in 1993, with a maximum capacity of 5.40 lbs/hr of welding wire, using no control, and exhausting outdoors.
- (h) One (1) combo welder, identified as W-2, constructed in 1978, with a maximum capacity of 5.40 lbs/hr of welding wire, with a welding fume hood for control, and exhausting to vent SV-03.
- (i) One (1) 110 welder for maintenance, identified as MW-1, constructed in 2004, with a maximum capacity of 5.40 lbs/hr of welding wire, using no control, and exhausting indoors.

Combustion

- (j) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting:
 - (1) One (1) direct fire air makeup unit, identified as AMU-01, constructed in 2006, with a maximum capacity of 1.50 MMBTU/hr.
 - (2) Thirty (30) natural gas-fired space heaters, identified as SH-1 through SH-30, each with a maximum capacity of 0.13 MMBtu/hr.

Fugitive Emissions

- (k) Paved and Unpaved Roads.

SECTION B GENERAL CONDITIONS

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

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 2-1.1-1) shall prevail.

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M141-33378-00553, 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, until the renewal permit has been issued or denied.

B.5 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.6 Enforceability

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.7 Severability

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.8 Property Rights or Exclusive Privilege

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

B.9 Duty to Provide Information

- (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.10 Annual Notification [326 IAC 2-6.1-5(a)(5)]

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, 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 Permittee shall implement the PMPs.

- (b) 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.
- (c) 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.12 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M141-33378-00553 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.13 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.14 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 one hundred twenty (120) days 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 2-6.1 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 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.15 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.16 Source Modification Requirement

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

B.17 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 permitted 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.18 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.19 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) 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.20 Credible Evidence [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 2-6.1-5(a)(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 Permit Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 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 thirty percent (30%) 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.4 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.5 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.6 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).

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.

- (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 2-6.1-5(a)(2)]

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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (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

C.12 Response to Excursions or Exceedances

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.13 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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. 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.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of 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

- (b) 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.

- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. 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.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Painting Operation

- (a) One (1) paint booth for large sheets, identified as PB-01, constructed in 2004, with a maximum capacity of 1.50 gal/hr, using a filter bank for particulate control, and exhausting to vent SV-PB-01.
- (b) One (1) paint booth for small stock and parts, identified as PB-02, approved for construction in 2013, with a maximum capacity of 1.50 gal/hr, using a filter bank for particulate control, and exhausting to vent SV-PB-02.

(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 2-6.1-5(a)(1)]

D.1.1 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(c), the Permittee shall not allow the discharge into the atmosphere of VOC in excess of the following, when coating metal:

- (a) Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (4.3) pounds per gallon) of coating, excluding water, as delivered to a coating applicator that applies clear coatings.
- (b) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, as delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).
- (c) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, as delivered to a coating applicator that applies extreme performance coatings.
- (d) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, as delivered to a coating applicator for all other coatings and coating application systems.
- (e) If more than one (1) emission limitation in (a) through (d) above applies to a specific coating, then the least stringent emission limitation shall be applied.

D.1.2 Volatile Organic Compounds (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 limited to, the following:

- (a) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
- (b) 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.

- (c) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
- (d) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
- (e) Minimize VOC emissions from the cleaning 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.1.3 Particulate Emission Limitations [326 IAC 6.5-1-2(h)]

- (a) Pursuant to 326 IAC 6.5-1-2(h), particulate from the Surface Coating Booths (PB-01 and PB-02) shall be controlled by dry particulate filters, waterwash, or an equivalent control device, and the Permittee shall operate each control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition

Compliance Determination Requirements

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]

- (a) Compliance with the VOC content limit in condition D.1.1 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis.

This volume weighted average shall be determined by the following equation:

$$A = [\sum (C \times U) / \sum U]$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied; and

U is the usage rate of the coating in gallons per day.

The Permittee is not required to determine volume weighted average of coatings for a given day, if only compliant coatings are used on that day.

- (b) Compliance with the VOC content limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) 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 2-6.1-5(a)(2)]

D.1.6 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be complete and sufficient to establish compliance with the VOC content limit established in Condition D.1.1. Records necessary to demonstrate compliance shall be available no later than 30 days of 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 less water used on a 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 volume weighted average VOC content of the coatings used for each day. (The Permittee is not required to maintain a record of volume weighted average VOC content of the coatings for a given day, if only compliant coatings are used on that day.)
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Metal Cutting /Machining and Metal Forming Operations

- (c) One (1) spray lubricator for metal forming, identified as SL-1, constructed in 2004, using .052 gallons spray lube per hour, with a maximum throughput capacity of 147.92 lbs/hr, using no control, and exhausting indoors.
- (d) One (1) aluminum roll former for metal forming with a maximum metal throughput capacity of 147.92 lbs/hr, identified as RF-1, constructed in 1997, using no control.
- (e) Five (5) metal cutting extrusion saws, identified as ES-1 through ES-5, constructed in 1973, 1973, 1997, 1997, 2012 respectively with a maximum throughput capacity of 225 lbs/hr each, using no control devices, and exhausting indoors.

Welding

- (f) One (1) spot weld, identified as SW-1, constructed in 1978, with a maximum capacity of 0.89 lbs/hr of welding wire, using no control, and exhausting outdoors.
- (g) One (1) aluminum wall vent tack welder, identified as W-1, constructed in 1993, with a maximum capacity of 5.40 lbs/hr of welding wire, using no control, and exhausting outdoors.
- (h) One (1) combo welder, identified as W-2, constructed in 1978, with a maximum capacity of 5.40 lbs/hr of welding wire, with a welding fume hood for control, and exhausting to vent SV-03.
- (i) One (1) 110 welder for maintenance, identified as MW-1, constructed in 2004, with a maximum capacity of 5.40 lbs/hr of welding wire, using no control, and exhausting indoors.

Combustion

- (j) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting:
 - (1) One (1) direct fire air makeup unit, identified as AMU-01, constructed in 2006, with a maximum capacity of 1.50 MMBTU/hr.
 - (2) Thirty (30) natural gas-fired space heaters, identified as SH-1 through SH-30, each with a maximum capacity of 0.13 MMBtu/hr.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.2.1 Particulate Matter Limitations [326 IAC 6.5]

- (a) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the spray lubricator for metal forming (SL-1) shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).
- (b) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from each of the five (5) metal cutting extrusion saws, identified as ES-1 through ES-5, shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)) each.
- (c) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from each of the welding operations, identified as SW-1, W-1, W-2, and MW-1, shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)) each.
- (d) Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from AMU-01 and SH-1 through SH-30 shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)) each.

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any associated control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Modern Door, Inc
Address:	1300 Virginia Street
City:	Walkerton, Indiana 46574
Phone #:	574-586-3117
MSOP #:	M141-33378-00553

I hereby certify that Modern Door, Inc is :

I hereby certify that Modern Door, Inc is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of MSOP M141-33378-00553.
- not in compliance with the requirements of MSOP M141-33378-00553.

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

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

Noncompliance:

MALFUNCTION REPORT
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM
ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____
ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:
CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

Modern Door, Inc
1300 Virginia Street
Walkerton, Indiana 46574

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____.
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make
these representations on behalf of _____.
(Company Name)
4. I hereby certify that Modern Door, Inc 1300 Virginia Street, Walkerton, Indiana 46574, completed construction of the metal building components manufacturer on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on July 2, 2013 and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M141-33378-00553, Plant ID No. 141-00553 issued on _____.
5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana
on this _____ day of _____, 20____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

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

Technical Support Document (TSD) for a SSOA Transitioning to a Minor
Source Operating Permit (MSOP) with New Source Review (NSR)

Source Description and Location

Source Name: Modern Door, Inc
Source Location: 1300 Virginia Street, Walkerton, IN 46574
County: St. Joseph
SIC Code: 3442 (Metal Doors, Sash, and Trim)
Operation Permit No.: M141-33378-00553
Permit Reviewer: Nida Habeeb

On July 2, 2013, the Office of Air Quality (OAQ) received an application from Modern Door, Inc related to the construction and operation of new emission units at an existing metal building components and exterior door manufacturing plant and transition from a Source Specific Operating Agreement (SSOA) to a MSOP.

Existing Approvals

The source has been operating under SSOA No. S141-19186-00553, issued on June 4, 2004.

Due to this application, the source is transitioning from a SSOA to a MSOP.

County Attainment Status

The source is located in St. Joseph County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective July 19, 2007, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Attainment effective October 18, 2000, for the 1-hour ozone standard for the South Bend-Elkhart area, including St. Joseph County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour standard was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. St. Joseph 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}**
St. Joseph 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**
St. Joseph 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

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) 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.

Background and Description of Permitted Emission Units

The Office of Air Quality (OAQ) has reviewed an application, submitted by Modern Door, Inc., on July 02, 2013, relating to construction and operation of new emission units at an existing metal building components manufacturer plant and transition from a SSOA to a MSOP. The transition is due to an increase in production and Modern Door, Inc. would like the flexibility of painting small components in a second booth. The modification will include adding a second spray booth for small parts. The booth will include an additional paint pot and spray gun. Modern Door is a metal building components manufacturer including ridge vents, metal doors, windows, post construction building components, ventilation products and more. Modern Door, Inc., mainly fabricates the metal and then paints the building components in a paint booth prior to packing and shipping.

The source consists of the following permitted emission units:

Painting Operation

- (a) One (1) paint booth for large sheets, identified as PB-01, constructed in 2004, with a maximum capacity of 1.50 gal/hr, using a filter bank for particulate control, and exhausting to vent SV-PB-01.

Metal Cutting /Machining and Metal Forming Operations

- (b) One (1) spray lubricator for metal forming, identified as SL-1, constructed in 2004, using .052 gallons spray lube per hour, with a maximum throughput capacity of 147.92 lbs/hr, using no control, and exhausting indoors.
- (c) One (1) aluminum roll former for metal forming with a maximum metal throughput capacity of 147.92 lbs/hr, identified as RF-1, constructed in 1997, using no control.
- (d) Five (5) metal cutting extrusion saws, identified as ES-1 through ES-5, constructed in 1973, 1973, 1997, 1997, 2012 respectively with a maximum throughput capacity of 225 lbs/hr each, using no control devices, and exhausting indoors.

Welding

- (e) One (1) spot weld, identified as SW-1, constructed in 1978, with a maximum capacity of 0.89 lbs/hr of welding wire, using no control, and exhausting outdoors.
- (f) One (1) aluminum wall vent tack welder, identified as W-1, constructed in 1993, with a maximum capacity of 5.40 lbs/hr of welding wire, using no control, and exhausting outdoors.
- (g) One (1) combo welder, identified as W-2, constructed in 1978, with a maximum capacity of 5.40 lbs/hr of welding wire, with a welding fume hood for control, and exhausting to vent SV-03.
- (h) One (1) 110 welder for maintenance, identified as MW-1, constructed in 2004, with a maximum capacity of 5.40 lbs/hr of welding wire, using no control, and exhausting indoors.

Combustion

- (i) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting:
 - (1) One (1) direct fire air makeup unit, identified as AMU-01, constructed in 2006, with a maximum capacity of 1.50 MMBTU/hr.
 - (2) Thirty (30) natural gas-fired space heaters, identified as SH-1 through SH-30, each with a maximum capacity of 0.13 MMBtu/hr.

Fugitive Emissions

- (j) Paved and Unpaved Roads.

Background and Description of New Source Construction

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

- (a) One (1) paint booth for small stock and parts, identified as PB-02, approved for construction in 2013, with a maximum capacity of 1.50 gal/hr, using a filter bank for particulate control, and exhausting to vent SV-PB-02.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	15.99
PM10 ⁽¹⁾	15.80
PM2.5	15.70
SO ₂	0.01
NO _x	2.32
VOC	60.48
CO	1.95
GHGs as CO ₂ e	2,800

- (1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10) and particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM2.5), not particulate matter (PM), are each considered as a "regulated air pollutant".

HAPs	Potential To Emit (tons/year)
Worst Single HAP - Toluene	5.51
Combined HAPs	6.80

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of the VOC emissions is less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60, Subpart EE (326 IAC 12), are not included in the permit, because the source does not perform surface coating of metal furniture. The source performs the surface coating of metal building components and exterior doors.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Surface Coating at Area Sources, 40 CFR 63.1116, Subpart HHHHHH, are not included in the permit, because the source does not use chemical strippers containing methylene chloride, does not perform spray application of coatings, as defined in §63.11180 to

motor vehicles and mobile equipment and does not perform spray application of coatings that contain the target HAP in amounts specified by OSHA, as defined in §63.11180.

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63.3880, Subpart MMMM (326 IAC 20-63), are not included in the permit, because the source is not a major source of HAPs. The source performs surface coating of metal building components and exterior doors at an area source of HAPs.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): Surface Coating of Large Appliances, 40 CFR 63.4080, Subpart NNNN (326 IAC 20-63), are not included in the permit, because the source is not a major source of HAPs and does not perform surface coating of large appliances. The source performs surface coating of metal building components and exterior doors.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): Surface Coating of Wood Building Products, 40 CFR 63.4680, Subpart QQQQ (326 IAC 20-63), are not included in the permit, because the source does not perform surface coating of wood building products and is not a major source of HAPs. The source performs surface coating of metal building components and exterior doors and is an area source of HAPs.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): Surface Coating of Metal Furniture, 40 CFR 63.4880, Subpart RRRR (326 IAC 20-78), are not included in the permit, because the source is not a major source of HAPs and does not perform surface coating of metal furniture.
- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP): Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX, are not included in the permit because the source has an SIC code of 3442, is not primarily engaged in the operations in one of the nine source categories and does not use any materials that contain MFHAPs in amounts specified by OSHA.
- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD (63.7480 through 63.7575) (326 IAC 20-95), are not included in this permit, because the thirty (30) natural-gas fired space heaters and one (1) one natural-gas fired AMU unit are not considered process heaters as defined by 40 CFR 63.7575. In addition, the source is not a major source of HAPs as defined in 40 CFR 63.2.
- (h) The requirements of the National Emission Standard for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR Part 63, Subpart JJJJJ, are not included in this permit, because the natural-gas fired space heaters and one (1) one natural-gas fired AMU unit do not meet the definition of a boiler, as defined in 40 CFR 63.11237.
- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination (Entire Source)

The following state rules are applicable to the source:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of CO₂e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (d) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of thirty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The requirements of 326 IAC 6-5 are not applicable to the source because it does not have the potential to emit fugitive particulate matter emissions greater than twenty-five (25) tons per year or more.
- (h) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (i) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

State Rule Applicability Determination - Individual Facilities

Painting Operation (Paint Booths: PB-01 and PB-02)

- (a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(h), the Paint Booths (PB-01 and PB-02) shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:
- (1) The source shall operate the control device in accordance with manufacturer's specifications.
 - (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (3) If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.
- (b) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Pursuant to 326 IAC 8-1-6(3)(A), the requirements of 326 IAC 8-1-6 do not apply to either of the painting booths compromising the painting operation, because each unit is subject to the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations).
- (c) 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Parts Coating Operation)
Pursuant to 326 IAC 8-2-9(a)(1)(e), each of the painting booths compromising the painting operation is subject to the requirements of 326 IAC 8-2-9 because each is located in St. Joseph County, has actual emissions of greater than fifteen (15) pounds of VOC per day before add-on controls, and coats metal parts under the Standard Industrial Classification Code of major group #34. Pursuant to 326 IAC 8-2-9, when coating miscellaneous metal, each of the painting units compromising the painting operation must comply with the following conditions:
- (1) No owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any VOC in excess of the following:
 - (A) Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (4.3) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies clear coatings. A clear coating is a coating that:
 - (i) lacks color or opacity; and
 - (ii) is transparent and uses the undercoat as a reflectant base or undertone color.
 - (B) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).
 - (C) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies extreme performance coatings. Extreme performance coatings are coatings

designed for exposure to:

- (i) temperatures consistently above ninety-five (95) degrees Celsius;
 - (ii) detergents;
 - (iii) abrasive or scouring agents;
 - (iv) solvents;
 - (v) corrosive atmospheres;
 - (vi) outdoor weather at all times; or
 - (vii) similar environmental conditions.
- (D) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.
- (E) If more than one (1) emission limitation in A through D above applies to a specific coating, then the least stringent emission limitation shall be applied.
- (2) 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:
- (A) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
 - (B) 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.
 - (C) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
 - (D) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
 - (E) 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.

Metal Forming Operation with Spray Lubricator (Spray Lube for Metal Forming Machine: SL-1)

- (a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the spray lubricator for metal forming (SL-1) shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).
- (b) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 do not apply to each of the units compromising the metal forming operation since the potential VOC emissions from each emission unit are less than twenty-five (25) tons per year.

- (c) 326 IAC 8 (VOC rules)
There are no other article 8 rules that apply.

Metal Cutting / Machining (Metal Cutting Extrusion Saws, ES-1 through ES-5)

- (a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from each of the five (5) metal cutting extrusion saws, identified as ES-1 through ES-5, shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)) each.

Welding Operation (Spot Weld: SW-1, Aluminum Wall Vent Tack Welder: W-1, Combo Welder: W-2, Maintenance Welder: MW-1)

- (a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from each of the welding operations, identified as SW-1, W-1, W-2, and MW-1, shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)) each.

Natural-Gas Fired Combustion Sources (Air Makeup Unit: AMU-01, Space Heaters: SH-1-30)

- (a) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from AMU-01 and SH-1 through SH-30 shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)) each.
- (b) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
Pursuant to 326 IAC 7-1.1-1, the natural gas-fired units at the source are not subject to the requirements of 326 IAC 7-1, since each has unlimited sulfur dioxide (SO₂) emissions less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.
- (c) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)
Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 do not apply to the welding operation since the potential VOC emissions from each emission unit are less than twenty-five (25) tons per year.

Compliance Determination, Monitoring and Testing Requirements
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- (a) The compliance determination and monitoring requirements applicable to this source are as follows:
- (1) Compliance with the VOC content limit shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis.

This volume weighted average shall be determined by the following equation:

$$A = [\sum (C \times U) / \sum U]$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied; and

U is the usage rate of the coating in gallons per day.

The Permittee is not required to determine volume weighted average of coatings for a given day, if only compliant coatings are used on that day.

- (2) Compliance with the VOC content limitations shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) 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.

- (b) There are no testing requirements applicable to this source.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on July 2, 2013.

The construction and operation of this source shall be subject to the conditions of the attached proposed Minor Source Operating Permit (MSOP) with New Source Review (NSR) No. M141-33378-00553. The staff recommends to the Commissioner that this MSOP with New Source Review be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Nida Habeeb 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 - 8531 or toll free at 1-800-451-6027 extension 4-8531.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

**TSD Appendix A: Emission Calculations
Emissions Summary**

Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Permit Reviewer: Nida Habeeb

Emission Units	Uncontrolled/Unlimited Potential to Emit (PTE) (tons/year)											
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Worst Single HAP		
Paint Booths												
PB-01 and PB-02	11.55	11.55	11.55	0.00	0.00	58.73	0.00	0.00	6.72	5.51	Toluene	
Metal Cutting /Machining and Metal Forming Operation												
Spray lube for Metal Forming (SL-1)	0.00	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00	-	
Cutting /Machining (ES-1 through ES-5)	2.51	2.51	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	
Welding												
SW-1, W-1, W-2, MW-1	2.31	2.31	2.31	0.00	0.00	0.0E+00	0.00	0.00	0.04	0.04	Manganese	
Natural Gas Fired Combustion												
AMU-1 and SH-1-30	0.04	0.18	0.18	0.01	2.32	0.13	1.95	2,800	0.04	0.04	Hexane	
Fugitive Emission												
Paved Roads	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	
Unpaved Roads	0.40	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	
Total	16.85	16.66	16.56	0.01	2.32	60.48	1.95	2,800	6.80	5.51	Toluene	

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

**Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Reviewer: Nida Habeeb**

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	Uncontrolled Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency	Control Efficiency %	Controlled Particulate Potential (ton/yr)	
Paint Booths (PB-01 and PB-02)																			
Base Paint	12A2A Black Satin Additive	8.60	53.95%	0.00%	54.0%	0.00%	38.56%	0.42	3.00	4.64	4.64	5.79	139.00	25.37	5.41	12.03	75%	95%	0.27
Catalyst	11C2	7.85	65.81%	54.42%	11.4%	59.54%	28.21%	0.166	3.00	2.21	0.89	0.45	10.71	1.96	1.47	3.17	75%	95%	0.07
Reducer for Base	Oxosol	11.18	100.00%	0.00%	100.0%	100.00%	0.00%	0.166	3.00	0.89	11.18	5.58	133.97	24.45	0.00	0.00	75%	95%	0.00
Gloss	Carbit 11v1	8.20	61.21%	35.03%	26.2%	38.48%	33.53%	0.083	3.00	3.49	2.15	0.54	12.86	2.35	0.87	6.40	75%	95%	0.04
Smoothie	Marson - 20240	6.81	90.00%	0.00%	90.0%	10.00%	10.00%	0.001	3.00	6.81	6.13	0.03	0.62	0.11	0.00	61.29	75%	95%	0.00
Adhesion Additive	505-66	8.91	22.00%	0	22.0%	0	77.50%	0.166	3.00	1.96	1.96	0.98	23.49	4.29	3.80	2.53	75%	95%	0.19
Clean Up Solvent																			
Cleanup Solvent (Lacquer Thinner)	T38 Lacquer Thinner	7.01	100.00%	0.00%	100.0%	0.00%	0.00%	0.0023	3.00	7.01	7.01	0.05	1.16	0.21	0.00	0.00	100%	95.00%	0.00
Total Potential to Emit:											13.41	321.81	58.73	11.55					0.58

Notes
PB-01 and PB-02 run only one spray gun at a time
Solvent cleanup is based on actual usage and weight of solvents disposed
Material data (density, weight% and volume%) based on MSDS sheets and information provided by the source.

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)
Uncontrolled Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Controlled Particulate Potential (tons/yr) = Uncontrolled Particulate Potential (tons/yr) * (1-Control Efficiency)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

**Appendix A: Emission Calculations
HAP Emission Calculations**

**Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Permit Reviewer: Nida Habeeb**

Material	Density	Gallons of Material	Maximum	Weight %	Weight %	Weight %	Weight %	Weight %	Xylene Emissions	Toluene Emissions	Ethyl Benzene Emissions	HDMI Emissions	Methanol Emissions	Combined HAPs	
	(Lb/Gal)	(gal/unit)	(unit/hour)	Xylene	Toluene	Ethyl Benzene	HDMI	Methanol	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	
Paint Booths (PB-01 and PB-02)															
Base Paint	12A2A Black Satin	8.60	0.42	3.00	0.65%	11.60%	1.90%	0.00%	0.00%	0.31	5.51	0.90	0.00	0.00	6.72
Catalyst	11C2	7.85	0.166	3.00	0.00%	0.00%	0.00%	0.14%	0.00%	0.00	0.00	0.00	0.02	0.00	0.02
Reducer for Base	Oxosol	11.18	0.166	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Gloss	Carbit 12v1	8.20	0.083	3.00	0.00%	13.06%	1.69%	0.00%	0.00%	0.00	1.17	0.15	0.00	0.00	1.32
Smoothie	Marson – 20240	6.81	0.001	3.00	0.00%	0.00%	0.20%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Adhesion additive	505-66	8.91	0.166	3.00	0.00%	0.00%	0.20%	0.00%	0.00%	0.00	0.00	0.04	0.00	0.00	0.04
Clean Up Solvent												0.00	0.00	0.00	
Cleanup Solvent	T83 Lacquer thinner	7.01	0.0023	3.00	10.00%	60.00%	0.00%	0.00%	10.00%	0.02	0.13	0.00	0.00	0.02	0.17
"Worst Case" Individual HAP										0.31	5.51	0.90	0.02	0.02	6.72

NOTES

Material data (density, weight%) based on MSDS sheets and information provided by the source.

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: Emission Calculations
VOC from Metal Forming**

Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Reviewer: Nida Habeeb

Metal Forming	Density (lbs/gal)	Usage (gal/hr)	Usage (gal/yr)	Weight %VOC	Max VOC Emissions (lb/hr)	Max VOC Emissions (tons/yr)
Vanishing Oil	7.1	0.052	455.52	100%	0.3692	1.62

METHODOLOGY

Max VOC Emissions (tons/yr) = Max VOC Emissions (lb/hr) * 8760 hrs/yr * 1 ton/2000 lbs

Max VOC Emissions (lb/hr) = Density (lbs/gal) * Usage (gal/hr) * Weight % VOC

Usage (gallons/yr) = Usage (gal/hr) * 8760 (hr/yr)

**Emission Calculations
Particulate Emissions from Cutting /Machining Operation**

Company Name: Modern Door, Inc.
Source Location: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Permit Reviewer: Nida Habeeb

Machining Operations:

Emission Unit	Maximum Capacity per Unit (lb/hr)	Number of Units	Emission Factor (lb PM/ton)*	Combined PM Emissions (lb/hr)	Combined PM Emissions (ton/yr)
Extrusion Saws (ES-1 through ES-5)	225.00	5.00	1.02	0.57	2.51
Total:					2.51

Notes:

Maximum Capacity (lb/hr) based on Maximum Daily Throughput of 3,550 lbs

Assumed PM=PM10=PM2.5

*PM Emission Factor was based on a mass-balance approach provided by the source. Where:

Total lbs cutting chips generated per day (lbs/day) = Cuts per day * Metal Weight of each 1/8" cut per 8 hr work day

Weight not recovered = Total lbs cutting chips generated per day - Scrap recovery weight

Emission Factor = (2000 (lbs/ton) / Total weight of all parts in a day (lbs/day))*Emission rate(lbs/day)

Methodology:

Emissions (lb/hr) = [Maximum Capacity per Unit (lb/hr) * 1 ton / 2,000 lb] * Number of Units * Emission Factor (lb PM/ton)

Combined PM Emissions (ton/year) = Combined PM Emissions (lb/hr) * 8760 hr/yr * 1 ton /2000 lb

**Appendix A: Emissions Calculations
Welding**

Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Reviewer: Nida Habeeb

PROCESS	Number of Stations	Max. Electrode Consumptions per Stations (lbs/hr)	EMISSION FACTORS*				EMISSIONS				HAPS
			(lb pollutant/lb electrode)				(lbs/hr)				(lbs/hr)
Welding			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Spot Welders (G-90 Hot Dipped Galv For Brackets)	1	0.89	0.0055	5.00E-04	0.00E+00	0.00E+00	4.90E-03	4.45E-04	0.00E+00	0.00E+00	4.45E-04
Aluminum Tig Hand Welding Station	1	5.40	0.0775	0.00E+00	0.00E+00	0.00E+00	4.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Combo Tack Weld	1	5.40	0.0055	5.00E-04	0.00E+00	0.00E+00	2.97E-02	2.70E-03	0.00E+00	0.00E+00	2.70E-03
Stick Weld	1	2.00	0.0370	3.00E-03	0.00E+00	0.00E+00	7.40E-02	6.00E-03	0.00E+00	0.00E+00	6.00E-03
EMISSION TOTALS											
Potential Emissions lbs/hr							0.53				0.01
Potential Emissions lbs/day							12.65				0.22
Potential Emissions tons/year							2.31				0.04

Methodology:

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

**TSD Appendix A: Emission Calculations
Natural Gas Combustion (AMU-01, SH-1-30)**

Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Reviewer: Nida Habeeb

Unit	Units	Maximum Heat Input Capacity (MMBtu/hr)	High Heat Value (MMBtu/MMscf)	Potential Throughput (MMcf/yr)
Direct Fired Air Makeup Unit (AMU-01)	1.0	1.50	1020	12.88
Natural Gas Fired Space Heaters (SH-1-30)	30.0	3.90	1020	33.49
Totals		5.40		46.38

Criteria Pollutants	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMcf	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.04	0.18	0.18	0.01	2.32	0.13	1.95

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 assumed equal to PM10
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Hazardous Air Pollutants	HAPs - Organics*					HAPs - Metals*				
	Benzene	DCB	Formaldehyde	Hexane	Toluene	Pb	Cd	Cr	Mn	Ni
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.9E-05	2.8E-05	1.7E-03	4.2E-02	7.9E-05	1.2E-05	2.6E-05	3.2E-05	8.8E-06	4.9E-05

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

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/yr) = [Heat Input Capacity (MMBtu/hr)] * [8,760 hours/year] * [MMcf/1,020 MMBtu]
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Potential Emission of Total HAPs (tons/yr)	0.04
---	-------------

Greenhouse Gases (GHGs)	Greenhouse Gas (GHG)		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	2,783	0.05	0.05
Summed Potential Emissions in tons/yr	2,783		
CO2e Total in tons/yr	2,800		

Methodology

The N2O Emission Factor for uncontrolled is 2.2.
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.
Greenhouse 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 (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Abbreviations

PM = Particulate Matter	DCB = Dichlorobenzene	CO2 = Carbon Dioxide
PM10 = Particulate Matter (<10 um)	Pb = Lead	CH4 = Methane
SO2 = Sulfur Dioxide	Cd = Cadmium	N2O = Nitrous Oxide
NOx = Nitrous Oxides	Cr = Chromium	CO2e = CO2 equivalent emissions
VOC = Volatile Organic Compounds	Mn = Manganese	
CO = Carbon Monoxide	Ni = Nickel	

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads**

**Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Reviewer: Nida Habeeb**

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)	Maximum roundtrip miles (miles/day)	Maximum roundtrip miles (miles/yr)
Vehicle (shipping) (one-way trip)	3.0	1.0	3.0	10.0	30.0	50	0.009	0.03	10.37	0.06	20.7
Vehicle (leaving plant) (one-way trip)	15.0	1.0	15.0	10.0	150.0	50	0.009	0.14	51.85	0.28	103.7
			18.0		180.0		0.02	0.17	62.22	0.34	124.4

Average Vehicle Weight Per Trip = 10.0 tons/trip
Average Miles Per Trip = 0.01 miles/trip

Unmitigated Emission Factor, $E_f = [k * (sL)^{0.91} * (W)^{1.02}]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	10.0	10.0	10.0	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m ² = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$
where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, E_f =	0.911	0.182	0.0447	lb/mile
Mitigated Emission Factor, E_{ext} =	0.833	0.167	0.0409	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Vehicle (shipping) (one-way trip)	0.00	0.00	0.00	0.00	0.00	0.00
Vehicle (leaving plant) (one-way trip)	0.02	0.00	0.00	0.02	0.00	0.00
	0.03	0.00	0.00	0.03	0.01	0.00

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particulate Matter (<2.5 um)
PTE = Potential to Emit

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads**

Company Name: Modern Door, Inc.
Source Address: 1300 Virginia Street, Walkerton, 46574
Permit Number: M141-33378-00553
Reviewer: Nida Habeeb

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)	Maximum roundtrip miles (miles/day)	Maximum roundtrip miles (miles/yr)
Vehicle Receiving (entering plant) (one-way trip)	4.0	1.0	4.0	10.0	40.0	500	0.09	0.38	138.26	0.76	276.5
Vehicle (leaving plant) (one-way trip)	4.0	1.0	4.0	10.0	40.0	500	0.09	0.38	138.26	0.76	276.5
Totals			8.0		80.0			0.76	276.52	1.52	553.03

Average Vehicle Weight Per Trip = 10.0 tons/trip
 Average Miles Per Trip = 0.09 miles/trip

Unmitigated Emission Factor, $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Sand/Gravel Processing Plant)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	10.0	10.0	10.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E_f \cdot [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, $E_{ext} = E_f \cdot [(365 - P)/365]$
 where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, E_f =	4.44	1.13	0.11	lb/mile
Mitigated Emission Factor, E_{ext} =	2.92	0.74	0.07	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.31	0.08	0.01	0.20	0.05	0.01
Vehicle (leaving plant) (one-way trip)	0.31	0.08	0.01	0.20	0.05	0.01
Totals	0.61	0.16	0.02	0.40	0.10	0.01

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Jeff Gratix
Modern Door, Inc.
1300 Virginia Street
Walkerton, Indiana 46574

DATE: December 3, 2013

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

SUBJECT: Final Decision
MSOP - NSR
141-33378-00553

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:
Peter Keck, Consultant
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	AWELLS 12/3/2013 Modern Door Inc 141-33378-00553 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		Jeff Gratix Modern Door Inc 1300 Virginia Street Walkerton IN 46574 (Source CAATS) confirmed delivery										
2		Mr. Todd Overpeck 5821 Charleston Pike Jeffersonville IN 47130 (Affected Party)										
3		Mr. Wayne Falda South Bend Tribune 255 W Colfax Ave South Bend IN 46626 (Affected Party)										
4		Walkerton Town Council 510 Roosevelt Rd. Walkerton IN 56574 (Local Official)										
5		St. Joseph County Board of Commissioners 227 West Jefferson Blvd, South Bend IN 46601 (Local Official)										
6		St. Joseph County Health Department 227 W Jefferson Blvd, Room 825 South Bend IN 46601-1870 (Health Department)										
7		Peter Keck 51728 SR 933 North South Bend IN 46637 (Consultant)										
8		Sandra Ochs 32515 Underwood Road Walkerton IN 46574 (Affected Party)										
9		Myma Dippert 32490 Underwood Road Walkerton IN 46574 (Affected Party)										
10		Fred Mago 32460 Underwood Road Walkerton IN 46574 (Affected Party)										
11		Darlene Pearish 32448 Underwood Road Walkerton IN 46574 (Affected Party)										
12		Richard Kersh 1106 Virginia Street Walkerton IN 46574 (Affected Party)										
13		Theresa Godette 1010 Colorado Street Walkerton IN 46574 (Affected Party)										
14		American Roller Co. 201 Industrial Park Drive Walkerton IN 46574 (Affected Party)										
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			