



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 3, 2009

RE: Musket Corporation / 089-28788-05335

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

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

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

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



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December 3, 2009

Nicholas Bock
Musket Corporation
PO Box 26210
Oklahoma City, OK 73120

Re: 089-28788-05335
First Registration Notice-Only Change to
R089-28203-05335

Dear Mr. Bock:

Musket Corporation was issued a Registration No. R089-28203-05335 on August 19, 2009 and Registration Revision No. R089-28552-05335 on November 12, 2009 for a portable diesel, biodiesel, and ethanol transloading facility located at Indiana Harbor Belt Railroad at 2721 161st Street, Hammond, Indiana 46323. On date, the Office of Air Quality (OAQ) received an letter from the source requesting that the registration be revised to correct a typographical error. The emission unit description for Transloader 2 should have stated that the maximum engine capacity was 25 horsepower and the emission unit description for Transloader 4 should have stated that the maximum engine capacity was 61 horsepower. This change to the registration is considered a notice-only change pursuant to 326 IAC 2-5.5-6(d)(1). The minimal increase in potential emissions is available in the potential emissions calculations located in Appendix A of the revised Registration.

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

A.2 Emission Units and Pollution Control Equipment Summary

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

- ...
- (b) One (1) diesel-powered transloader unit, identified as Transloader 2, approved for construction in 2009, with a maximum engine capacity of ~~64~~ **25** horsepower, with a maximum transfer capacity of 16,000 gallons of diesel per hour, using vapor balancing for VOC and HAP control, exhausting outdoors.

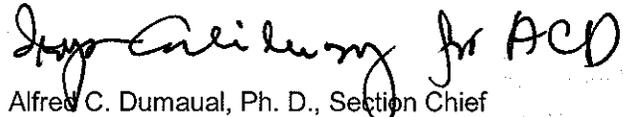
...

 - (d) One (1) diesel-powered transloader unit, identified as Transloader 4, approved for construction in 2009, with a maximum engine capacity of ~~25~~ **61** horsepower, with a maximum transfer capacity of 16,000 gallons of ethanol per hour, using vapor balancing for VOC and HAP control, exhausting outdoors.

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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Summer Keown, at (800) 451-6027, press 0 and ask for Summer Keown or extension 4-5175, or dial (317) 234-5175.

Sincerely,



Alfred C. Dumauval, Ph. D., Section Chief
Permits Branch
Office of Air Quality

ACD/SJK

Attachments: Revised Registration, Fugitive Dust Control Plan (Attachment A), and updated calculations (Attachment B)

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



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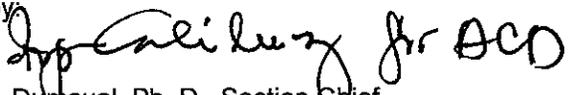
REGISTRATION OFFICE OF AIR QUALITY

Musket Corporation (portable)

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

Registration No. 089-28203-05335	
Original signed by: Alfred C. Dumauai, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 19, 2009

First Registration Revision No. 089-28552-05335, issued on November 12, 2009

First Notice-Only Change No. 089-28788-05335	
Issued by:  Alfred C. Dumauai, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: December 3, 2009

SECTION A

SOURCE SUMMARY

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

A.1 General Information

The Registrant owns and operates a portable diesel, biodiesel, and ethanol transloading facility.

Source Address:	Indiana Harbor Belt Railroad at 2721-161st Street, Hammond, Indiana 46323
Mailing Address:	PO Box 26210, Oklahoma City, OK 73120
General Source Phone Number:	(405) 302-6533
SIC Code:	5172
County Location:	Lake County
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) diesel-powered transloader unit, identified as Transloader 1, constructed in 2009, with a maximum engine capacity of 25 horsepower, with a maximum transfer capacity of 16,000 gallons of diesel per hour, using vapor balancing for VOC and HAP control, exhausting outdoors.
- (b) One (1) diesel-powered transloader unit, identified as Transloader 2, approved for construction in 2009, with a maximum engine capacity of 25 horsepower, with a maximum transfer capacity of 16,000 gallons of diesel per hour, using vapor balancing for VOC and HAP control, exhausting outdoors.
- (c) One (1) diesel-powered transloader unit, identified as Transloader 3, approved for construction in 2009, with a maximum engine capacity of 25 horsepower, with a maximum transfer capacity of 16,000 gallons of biodiesel per hour, using vapor balancing for VOC and HAP control, exhausting outdoors.
- (d) One (1) diesel-powered transloader unit, identified as Transloader 4, approved for construction in 2009, with a maximum engine capacity of 61 horsepower, with a maximum transfer capacity of 16,000 gallons of ethanol per hour, using vapor balancing for VOC and HAP control, exhausting outdoors.
- (e) Fugitive emissions from unpaved roads.

SECTION B

GENERAL CONDITIONS

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

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

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

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

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

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

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

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

- (a) All terms and conditions of permits established prior to Registration No. 089-28203-05335 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

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

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

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

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

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

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

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

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

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

Portable Source Requirements

B.8 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This registration is approved for operation all attainment areas for ozone in Indiana and in Lake County and Porter County which is classified as severe nonattainment for ozone. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any other severe nonattainment area, the Permittee must submit a request and obtain a registration revision.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
- (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Registrant will send written notice to not (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8
 - (3) The new location address of the portable source.
 - (4) Whether or not this portable source will be relocated to another source.
 - (5) If relocating to another source:
 - (A) Name, location address, and permit number of the source this portable source is relocating to.

(B) Whether or not the sources will be considered as one source. See Non Rule Policy (NRP) Air-005 and Air-006.

(6) If the sources will be considered as one source, whether or not the source to be relocated to has received the necessary approvals from IDEM to allow the relocation.

The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) A "Relocation Site Approval" letter shall be obtained prior to relocating.

(d) A valid registration consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

C.3 Fugitive Dust Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) The PM10 stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity.

- (i) The opacity of fugitive particulate emissions from a material processing facility, except crusher at which a capture system is not used, shall not exceed ten percent (10%).
- (j) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (k) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (l) The PM10 emissions from a material processing facility building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (m) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (n) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, which is included as Attachment A.

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

**REGISTRATION
ANNUAL NOTIFICATION**

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

Company Name:	Musket Corporation
Address:	Indiana Harbor Belt Railroad at 2721-161st Street
City:	Hammond, IN 46323
Phone Number:	(405) 302-6533
Registration No.:	089-28203-05335

I hereby certify that Musket Corporation is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. 089-28552-05335.
- not in compliance with the requirements of Registration No. 089-28552-05335.

I hereby certify that Musket Corporation is :

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

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

Noncompliance:

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

**PORTABLE SOURCE RELOCATION NOTIFICATION
CERTIFICATION**

Source Name: Musket Corporation
Source Address: Indiana Harbor Belt Railroad at 2721-161st Street, Hammond, IN 46323
Mailing Address: P.O. Box 26210, Oklahoma City, Oklahoma 73120
Registration No.: 089-28203-05335

This certification shall be included when submitting a portable source relocation notification as required by this registration.

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

Signature:

Printed Name:

Title/Position:

Phone Number:

Date:

ATTACHMENT A

**Fugitive Dust Control Plan
Approved August 14, 2009**

MUSKET CORPORATION

Hammond Indiana Transload Facility

I. INTRODUCTION

The following control plan is designed to reduce uncontrolled fugitive dust from roadways (travel areas).

This plan is in effect on a year-round basis to reduce uncontrolled fugitive dust. The site supervisor is responsible for implementing the control methods, as required, at the Musket Corporation Transload facility.

II. FACILITY INFORMATION

The following is the physical address and mailing address of the facility for the Musket Hammond Transload Facility:

Indiana Harbor Belt Railroad
2721 - 161 Street
Hammond, IN 46323

Musket Corporation is a privately held corporation. Mr. Peter Prizo (Manager),
or
his designee will provide direction and oversight regarding the execution of this control plan. All related correspondence should be mailed to Michael Key at the following address:

Musket Corporation
Attention: Michael B. Key
10601 N. Pennsylvania Ave.
Oklahoma City, OK 73120

Telephone: 405.302.6640
Facsimile: 405.749.9155
michaelk@loves.com

III. PROCESS DESCRIPTION

The Musket process physically transloads petroleum products among railroad tanker cars and tanker trucks. The primary pieces of equipment used in the process are a self-contained transloader trailer, railroad tanker cars and tanker trucks.

IV. GENERAL FUGITIVE EMISSIONS SOURCES

Visible emissions from any paved or unpaved area shall not exceed 10-percent opacity as averaged over any consecutive 6-minute period. All visible emission observations shall be determined in accordance with 326 IAC 6-1-11(d).

Unpaved Roads and Traffic Areas

The roads leading to the Musket facility are unpaved and maintained by the Indiana Harbor Belt Railroad. Fugitive dusts from unpaved roads and parking lots are controlled by application of water whenever there is the potential of fugitive dust escaping beyond the property boundary, right-of-way or easement. Watering is performed, on an as needed basis, to maintain fugitive particulate emissions below the acceptable opacity specified by 326 IAC 6-4 and 326 IAC 6.8-10 (Lake County Fugitive Particulate Matter).

Treatment of unpaved areas is delayed when:

- There is no potential of fugitive dust exceeding the opacity standard:

Pursuant to 326 IAC 6.8-10-3, the particulate matter emissions from source-wide activities shall meet the following requirements:

- The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).*
- The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).*
- The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).*
- The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.*
- The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.*

- (f) *There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.*
- (g) *The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).*
- (h) *There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.*
- (i) *The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.*
- (j) *The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).*
- (k) *Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.*

- 0.1 or more inches of rain have accumulated during the 24-hour period prior to the scheduled treatment, or
- It is raining, or
- Unpaved areas are frozen or covered by ice, snow, or standing water, or
- The facility is not in use, or
- The area is closed or abandoned

V. SPECIFIC FUGITIVE EMISSION SOURCES

The following is a list of the process operations that may result in the generation of particulate emissions:

- Tanker truck ingress and egress to the site

VI. CONTROL MEASURES

With regard to transloading process operations, little or no potential exists for fugitive dust.

The site supervisor will determine the applicability of control measures on a day-to-day basis, primarily dependent on weather conditions. As required, watering will be implemented in the morning, prior to beginning process operations. Musket personnel will also be instructed to remain aware of potential changes throughout the day (i.e. drying, wind) that may require application, or reapplication of water to suppress dust.

VII. SCHEDULE

This Control Plan is in effect during all days of transloading operations at the Musket facilities. Any modification of this Control Plan, as warranted by process changes, will require submission to the controlling authority for approval prior to implementation.

Attachment B: Emissions Calculations

Company Name: Musket Corporation
 Address City IN Zip: Indiana Harbor Belt Railroad at 2721-161st St, Hammond, IN 46323
 Notice-Only Change No.: 089-28788-05335
 Reviewer: Summer Keown
 Date: November 19, 2009

The tables below summarize the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Uncontrolled Potential to Emit (tons per year)

Emissions Unit	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Single HAP	Total HAPs
Diesel Combustion	0.34 0.36	0.34 0.36	0.34 0.36	0.32 0.34	4.83 5.12	0.39 0.41	1.04 1.10	negl.	4.23E-03 4.48E-03
Diesel Loading Loss	-	-	-	-	-	1.41	-	0.44 (toluene)	0.94
Ethanol Loading Loss	-	-	-	-	-	19.51	-	0.02 (toluene)	0.09
Biodiesel Loading Loss	-	-	-	-	-	0.11	-	negl.	negl.
Paved and Unpaved Roads	19.72	5.03	5.03	-	-	-	-	-	-
Total	20.06 20.08	5.37 5.39	5.37 5.39	0.32 0.34	4.83 5.12	21.41 21.44	1.04 1.10	0.46 (toluene)	1.03

Controlled Potential to Emit (tons per year)

Emissions Unit	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Single HAP	Total HAPs
Diesel Combustion	0.34 0.36	0.34 0.36	0.34 0.36	0.32 0.34	4.83 5.12	0.39 0.41	1.04 1.10	negl.	4.23E-03 4.48E-03
Diesel Loading Loss	-	-	-	-	-	0.14	-	0.04 (toluene)	0.09
Ethanol Loading Loss	-	-	-	-	-	1.90	-	negl.	0.01
Biodiesel Loading Loss	-	-	-	-	-	0.11	-	negl.	negl.
Fugitive Emissions from Paved and Unpaved Roads	9.86	2.51	2.51	-	-	-	-	-	-
Total	10.20 10.22	2.86 2.87	2.86 2.87	0.32 0.34	4.83 5.12	2.53 2.56	1.04 1.10	0.04 (toluene)	0.10

The tables below summarize the potential to emit of the entire source. (Note: the tables below were generated from the above table, with bold text un-bolded and strikethrough text deleted)

Uncontrolled Potential to Emit (tons per year)

Emissions Unit	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Single HAP	Total HAPs
Diesel Combustion	0.36	0.36	0.36	0.34	5.12	0.41	1.10	negl.	4.48E-03
Diesel Loading Loss	-	-	-	-	-	1.41	-	0.44 (toluene)	0.94
Ethanol Loading Loss	-	-	-	-	-	19.51	-	0.02 (toluene)	0.09
Biodiesel Loading Loss	-	-	-	-	-	0.11	-	negl.	negl.
Fugitive Emissions from Paved and Unpaved Roads	19.72	5.03	5.03	-	-	-	-	-	-
Total	20.08	5.39	5.39	0.34	5.12	21.44	1.10	0.46 (toluene)	1.03

Controlled Potential to Emit (tons per year)

Emissions Unit	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Single HAP	Total HAPs
Diesel Combustion	0.36	0.36	0.36	0.34	5.12	0.41	1.10	negl.	4.48E-03
Diesel Loading Loss	-	-	-	-	-	0.14	-	0.04 (toluene)	0.09
Ethanol Loading Loss	-	-	-	-	-	1.90	-	negl.	0.01
Biodiesel Loading Loss	-	-	-	-	-	0.11	-	negl.	negl.
Fugitive Emissions from Paved and Unpaved Roads	9.86	2.51	2.51	-	-	-	-	-	-
Total	10.22	2.87	2.87	0.34	5.12	2.56	1.10	0.04 (toluene)	0.10

**DIESEL EQUIPMENT EMISSIONS
Transloader Transfer Pumping**

Company Name: Musket Corporation
Address: Indiana Harbor Belt Railroad at 2721-161st St, Hammond, IN 46323
Notice-Only Change No.: 089-28788-05335
Reviewer: Calculations submitted by Musket Corporation & reviewed by Summer Keown
Date: November 19, 2009

Annual Throughput

Component	Barrels/day	Gal/day	Gal/yr	Weighted Average Pumping Rate (GPM)	Minimum Annual Operating Hours (hr/yr)	Weighted Average Engine HP	Maximum Annual Operating Hours (hr/yr)
Total	8,500	357,000	130,305,000	635	5429	35.59 37.71	8760

Transloader	Product	Transloader HP	gal/yr	GPM	min/hr	Hr/yr
1	Diesel Fuel	25	38,325,000	400	60	1596.9
2	Diesel Fuel	25	38,325,000	400	60	1596.9
3	Biodiesel	25	7,665,000	400	60	319.4
4	Ethanol	61	45,990,000	400	60	1916.3
		35.59 37.71	130,305,000			5429.38
		Wt Average	Total			Total

Emission Calculations Using Weighted Average Transloader HP					
Pollutant	Emission Factors	Annual Average Equipment Emissions Annual Throughput Base on 130.3 MM Gal/Yr			
		hr/yr	lb/yr	lb/ton	TPY
NOx	3.100E-02	8760	9664 10239	2000	4.83 5.12
CO	6.680E-03	8760	2083 2206	2000	1.04 1.10
SO2	2.050E-03	8760	639 677	2000	0.32 0.34
VOC	2.470E-03	8760	770 816	2000	0.39 0.41
PM/PM-10/PM2.5	2.200E-03	8760	686 727	2000	0.34 0.36

Benzene	6.53E-06	8760	2.04 2.16	2000	1.02E-03 1.08E-03
Toluene	2.86E-06	8760	0.89 0.995	2000	4.46E-04 4.73E-04
Xylene	2.00E-06	8760	0.62 0.66	2000	3.14E-04 3.29E-04
1,3-Butadiene	2.74E-07	8760	0.09	2000	4.27E-05 4.52E-05
Formaldehyde	8.26E-06	8760	2.58 2.73	2000	1.29E-03 1.36E-03
Acetaldehyde	5.37E-06	8760	1.67 1.77	2000	8.37E-04 8.87E-04
Acrolein	6.48E-07	8760	0.20 0.21	2000	1.04E-04 1.07E-04
Total PAH HAPs**	1.18E-06	8760	0.37 0.39	2000	1.83E-04 1.07E-04
Total HAPs			8.45 8.96		4.23E-03 4.48E-03

*PM is assumed to be equal to PM10 and PM2.5.

***PAH = Polycyclic Aromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Methodology

Potential emissions (lb/yr) = Emission Factor * Transloader HP (weighted average) * 8760 hours/year

Potential emissions (tons/yr) = Potential emissions (lb/yr) / 2000 lb/ton

Emission Factors are from AP 42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2.

Hours based on 8760 hour per year although the number of hours to transload total volume of products is 5429 hours per year.

AP-42 factors were used to calculate potential emissions. However, actual emissions will be based on 40 CFR 60 Subpart IIII requirements which are subject to actual engine horsepower and year of engine construction of the diesel engine. AP-42 factors were used to model the worst case scenario.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
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www.idem.IN.gov

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

TO: Nicholas Bock
Musket Corporation
PO Box 26210
Oklahoma City, OK 73120

DATE: December 3, 2009

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

SUBJECT: Final Decision
Registration Notice Only Change
089-28788-05335

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:

«Resp_Off_if_applicable»
«Consultant_if_applicable»
«Other_persons»
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 12/3/2009 Musket Corporation 089-28788-05335 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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2		Michael Key Dir - Environmental Compliance Musket Corporation PO Box 26210 Oklahoma City OK 73120 (RO CAATS)										
3		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
4		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
5		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
6		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
7		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
8		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
9		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
10		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
11		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
12		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
13		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
14		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
15		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										

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1		Karen 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
2		Calumet Township Trustee 35 E 5th Avenue Gary IN 46402 (Affected Party)										
3		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
4		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
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