

089-48101-00112

AI ID: 18050



**Carmeuse Americas—BUFFINGTON OPERATION**

1 N. Carmeuse Lane • Gary, IN 46406

Phone: 219.944-6144 • Fax: 219.944.9812

[info@carmeuse.com](mailto:info@carmeuse.com)

July 26, 2024

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

Received by State of Indiana IDEM-OAQ  
via email July 26, 2024 MJ-3

**RE: *Application for Significant Source and Permit Modification  
Carmeuse Lime, Inc. - Buffington Facility [Plant ID 089-00112]***

To Whom It May Concern,

Carmeuse Lime, Inc. (Carmeuse) owns and operates a lime processing plant located at 1 North Carmeuse Drive in Gary, Indiana (Buffington Facility). Carmeuse is submitting this Significant Source and Permit Modification for the Buffington Facility for the installation of two lime transloading operations.

The attached application includes a complete description of the project, potential emissions calculations, regulatory applicability analyses, and application forms.

If there are any questions concerning this application, please do not hesitate to contact me at (219) 269-4747 or Mr. Tony Schroeder of Trinity Consultants at (216) 278-0500.

Sincerely,

Carmeuse Lime, Inc.

A handwritten signature in cursive script that reads "Henry Sparks".

Henry Sparks  
Environmental Specialist

[ [www.carmeuse.com](http://www.carmeuse.com) ]

Carmeuse Internal

# **SIGNIFICANT SOURCE AND PERMIT MODIFICATION APPLICATION**



**Carmeuse Lime, Inc. / Buffington Facility**

**Prepared By:**

**TRINITY CONSULTANTS**

8900 Keystone Crossing

Suite 1070

Indianapolis, IN 46240

(317) 451-8100

July 2024

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## 1. INTRODUCTION

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Carmeuse Lime, Inc. (Carmeuse) owns and operates a lime manufacturing facility located in Gary, Lake County, Indiana (Buffington facility). The Buffington facility is a Title V major source and is currently permitted to operate by the Indiana Department of Environmental Management (IDEM) under Title V Operating Permit No. 089-41162-00112, issued on December 22, 2023. Carmeuse is submitting this significant source and permit modification application for the addition of two new portable conveyors at the Buffington facility to accommodate transloading of lime from railcars to trucks.

## 2. PERMIT UPDATE

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Carmeuse is proposing to install two new portable conveyors at the Buffington facility to perform the transloading of lime product from railcars to trucks. The new conveyors will be the only pieces of equipment (other than railcars and trucks) involved in the transloading operation and will have a maximum capacity of 300 tons of lime per hour, each. Lime material will first be dropped from the bottom of the railcar into the enclosed portable conveyors. The portable conveyors will be hydraulically compressed against the bottom of the railcar to prevent particulate matter from becoming airborne from the material drop. It is expected that the connection between the railcar and the portable conveyors will be sufficiently tight such that the transfer point can be considered enclosed. As such, the drop point from the railcar to the conveyors is not included in the emission calculations for the transloading operation included in Appendix B. Once the lime has been received from the railcar, the lime will be conveyed upward on the enclosed conveyors and then ejected through a loading spout into an enclosed truck. The particulate generated from dropping lime material from the portable conveyors into the trucks will be primarily captured by onboard dust collection systems.

Based on the design of the system, it is expected that the dust collectors will capture all of the particulate emissions generated by the transloading operation. However, to conservatively estimate emissions, Carmeuse has assumed a capture efficiency of 99.9% for the dust collectors. As such, Carmeuse is proposing that both fugitive emission points and a stack emission points be added to the permit for the transloading operation.

The transloading conveyors rely upon onboard diesel engines to generate power. This power is used for locomotion of the portable conveyors, operation of the onboard dust collectors, and for movement of the conveyor belts to transfer the lime product. The transloading conveyors are portable and will be moved around the Buffington facility to accommodate transloading in different areas. As such, the onboard diesel engines will be nonroad engines and should not be regulated as stationary sources.

Carmeuse requests IDEM add the following lime transloading operation to the Lime Storage and Loadout portion of Section A.2 of the Buffington facility's permit:

One (1) Lime Transloading Operation consisting of two (2) lime transloaders; identified as EU-37 and EU-38; with maximum capacities of 300 tons of lime per hour, each; each including one conveyor with emissions controlled by baghouses CE-37 and CE-38, respectively; exhausting to stack S-37 and S-38, respectively.

## 3. REGULATORY REVIEW

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This section summarizes the various air regulatory requirements that potentially apply to the facility. The applicability of New Source Review (NSR), New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP) are addressed below.

### 3.1 Major New Source Review Applicability

Major NSR applicability is based on a stationary source's PTE. The PTE of a source can account for the effects of a proposed air pollution control device (APCD). As such, the PTE from this facility is calculated accounting for the proposed baghouses. The increase in controlled emissions of Particulate Matter (PM), Particulate Matter with an aerodynamic diameter of less than 10 microns (PM<sub>10</sub>), and Particulate Matter with an aerodynamic diameter of less than 2.5 microns (PM<sub>2.5</sub>) from the lime transloading operation is not considered a significant modification as PM, PM<sub>10</sub>, and PM<sub>2.5</sub> increases are each less than the significant emission rates found in 326 IAC 2-2-1(w), as shown in the emission calculations in Appendix B. As the emissions from the project are below significant modification thresholds for all pollutants, the facility is not subject to major new source review for any applicable pollutant.

### 3.2 New Source Performance Standards

NSPS, promulgated in 40 CFR 60, require new, modified, or reconstructed sources to control emissions to the level achievable by the best-demonstrated technology as specified in the applicable provisions.

#### 3.2.1 Standards of Performance for Nonmetallic Mineral Processing Plants (Subpart 000)

NSPS Subpart 000 regulates PM emissions from each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading operation at a nonmetallic mineral processing plant constructed, reconstructed, or modified after August 31, 1983. Pursuant to 40 CFR 60.671, a nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located except as provided in 40 CFR §60.670 (b) and (c). Lime is not included in the list of nonmetallic minerals covered by NSPS Subpart 000. Furthermore, EPA has confirmed in applicability determination memos that NSPS Subpart 000 does not apply to lime handling operations.<sup>1</sup> Because the new portable conveyors will only handle lime product, NSPS Subpart 000 does not apply to the transloading operation.

#### 3.2.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart IIII)

NSPS Subpart IIII for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60, Subpart IIII) applies to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in 40 CFR 60.4200(a). The proposed lime transloading conveyors will be equipped with onboard diesel engines. The engines will be on portable pieces of equipment, thereby meeting the definition of a nonroad engine per 40 CFR 1068.30. NSPS IIII applies to stationary engines; therefore, since the engines will be considered nonroad engines and not stationary internal combustion

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<sup>1</sup> U.S. Environmental Protection Agency, Applicability Determination Index, Control Number: 0400016, "Subpart 000 and UUU Applicability to Lime Plants", November 18, 2003

engines as defined in 40 CFR 60.4219, the engines associated with the proposed lime transloading conveyors will not be subject to the requirements of NSPS Subpart IIII.

### 3.3 National Emission Standards for Hazardous Air Pollutants

National Emissions Standards for Hazardous Air Pollutants (NESHAPs) apply to sources in specifically regulated industrial source classifications (Clean Air Act Section 112(d)) or on a case-by-case basis (Clean Air Act Section 112(g)) for facilities not regulated as a specific industrial source type. Pollutant specific NESHAPs may also be applicable. NESHAPs are primarily developed for industrial source categories. Therefore, the potential applicability of a particular NESHAP to a facility can be readily ascertained based on the industrial source category covered.

#### 3.3.1 Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)

As previously stated, the engines associated with the proposed lime transloading conveyors will be considered nonroad engines and not stationary reciprocating internal combustion engines as defined in 40 CFR 63.6675; therefore, the engines will not be subject to the requirements of NESHAP ZZZZ.

### 3.4 Indiana Regulatory Program

State rules potentially applicable to this project are discussed below.

#### 3.4.1 Part 70 Permits, Source Modification (326 IAC 2-7-10.5)

Pursuant to 326 IAC 2-7-10.5(a), a Title V source proposing to construct new emission units, modify existing emission units, or otherwise modify the source as described in 326 IAC 2-7-10.5, must submit an application for source modification approval unless the proposed project is exempt under 326 IAC 2-1.1-3. PTE calculations are included in Appendix B. As shown in Table 3-1 below, the uncontrolled PTE from the project is greater than the significant source modification thresholds in 326 IAC 2-7-10.5(g); therefore, a significant source modification is required for this project.

**Table 3-1. Uncontrolled PTE (tpy)**

Emission Unit	PM	PM10	PM2.5	SO2	NOx	VOC	CO	HAPs	Worst Single HAP
Lime Transloading Operation	1,603.08	1,603.08	1,603.08	-	-	-	-	-	-
<b>Total</b>	<b>1,603.08</b>	<b>1,603.08</b>	<b>1,603.08</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Significant Source Modification Lower Thresholds	25	25	25	25	25	25	100	25	10
Significant Source Modification Required?	Yes	Yes	Yes	No	No	No	No	No	No

#### 3.4.2 Permit Modification (326 IAC 2-7-12)

A permit modification is required for any revision to a Title V permit that cannot be accomplished under the provisions for administrative permit amendments contained in 326 IAC 2-7-11. Pursuant to 326 IAC 2-7-12(b)(1), a minor permit modification may be used if certain criteria are satisfied. Carmeuse requests the proposed lime transloading operation be incorporated into the Buffington facility's Title V permit through a significant permit modification.

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

326 IAC 6-3 establishes emission limitations for particulate emissions from manufacturing processes located anywhere in the state. Pursuant to 326 IAC 6-3-1(c)(3), the rule does not apply if a particulate matter

emission limitation is established in 326 IAC 6.8. Since the Buffington facility is subject to the requirements of 326 IAC 6.8, the facility is not subject to the requirements of 326 IAC 6-3.

#### **3.4.4 Fugitive Particulate Matter Limitations for Lake County (326 IAC 6.8-10)**

The Buffington facility is a source specifically listed in 326 IAC 6.8-10-1(a)(2)(K); therefore, the facility is subject to the requirements of 326 IAC 6.8-10. Emission and opacity limitations are established in 326 IAC 6.8-10-3 for various sources, including material transfer operations and dust handling equipment. Carmeuse will ensure that the proposed lime transloading operation comply with the emission and opacity limitations of this rule by controlling fugitive particulate emissions in accordance with the fugitive dust control plan provided as Appendix A of the Buffington facility's Title V operating permit.

## APPENDIX A. STATE FORMS

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**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

**FOR OFFICE USE ONLY**

**PERMIT NUMBER:**

089-48101-00112

**DATE APPLICATION WAS RECEIVED:**

Received by State of Indiana IDEM  
 OAQ  
 via email July 26, 2024 MJ-3

1. Tax ID Number:

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: Carmeuse Lime, Inc. 3. Plant ID: 089 – 0112

4. Billing Address: 1 North Carmeuse Drive

City: Gary State: IN ZIP Code: 46406 –

5. Permit Level:  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

6. Application Summary: Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels) From: To:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |  |   |
|--|---|
| <input type="checkbox"/> New Emission Unit or Control Device     | <input type="checkbox"/> Modified Emission Unit or Control Device                             |
| <input type="checkbox"/> New Applicable Permit Requirement       | <input type="checkbox"/> Change to Applicability of a Permit Requirement                      |
| <input type="checkbox"/> Prevention of Significant Deterioration | <input type="checkbox"/> Emission Offset <input type="checkbox"/> MACT Preconstruction Review |
| <input type="checkbox"/> Minor Source Modification               | <input checked="" type="checkbox"/> Significant Source Modification                           |
| <input type="checkbox"/> Minor Permit Modification               | <input checked="" type="checkbox"/> Significant Permit Modification                           |
| <input type="checkbox"/> Other (specify):                        |   |

7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?  Yes  No

8. Is this an application for construction of a new emissions unit at an Existing Source?  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No       Yes:      Date:

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No       Yes:      Proposed Date for Meeting:

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No       Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

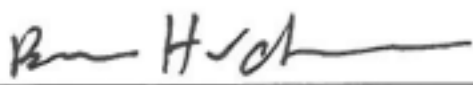
Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

Bruce Hudson  
Name (typed)

Site Operations Manager  
Title

  
Signature

7/26/2024  
Date

**OAQ GENERAL SOURCE DATA APPLICATION****GSD-01: Basic Source Level Information**

State Form 50840 (R5 / 1-10)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

Received by State of Indiana IDEM-OAQ  
 via email July 26, 2024 MJ-3

**NOTES:**

- \* The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD -01 is a required form.
- \* Detailed instructions for this form are available on the Air Permit Application Forms website.
- \* All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

089-48101-00112

**PART A: Source / Company Location Information**

1. Source / Company Name: Carmeuse Lime, Inc.		2. Plant ID: 089 – 00112	
3. Location Address: 1 North Carmeuse Drive			
City: Gary	State: IN	ZIP Code: 46406 –	
4. County Name: Lake		5. Township Name: North	
6. Geographic Coordinates:			
Latitude: 87:24:29		Longitude: 41:38:26	
7. Universal Transferal Mercadum Coordinates (if known):			
Zone:	Horizontal:	Vertical:	
8. Adjacent States: Is the source located within 50 miles of an adjacent state?			
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – Indicate Adjacent State(s): <input checked="" type="checkbox"/> Illinois (IL) <input checked="" type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants?			
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – Indicate Nonattainment Pollutant(s): <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input checked="" type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
10. Portable / Stationary: Is this a portable or stationary source? <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Stationary			

**PART B: Source Summary**

11. Company Internet Address (optional): <a href="http://www.carmeuse.com/">http://www.carmeuse.com/</a>	
12. Company Name History: Has this source operated under any other name(s)?	
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – Provide information regarding past company names in Part I, Company Name History.	
13. Portable Source Location History: Will the location of the portable source be changing in the near future?	
<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.	
14. Existing Approvals: Have any exemptions, registrations, or permits been issued to this source?	
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – List these permits and their corresponding emissions units in Part M, Existing Approvals.	
15. Unpermitted Emissions Units: Does this source have any unpermitted emissions units?	
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – List all unpermitted emissions units in Part N, Unpermitted Emissions Units.	
16. New Source Review: Is this source proposing to construct or modify any emissions units?	
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – List all proposed new construction in Part O, New or Modified Emissions Units.	
17. Risk Management Plan: Has this source submitted a Risk Management Plan?	
<input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: – –	

**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

18. Name of Source Contact Person: Henry Sparks

19. Title (optional): Environmental Specialist

20. Mailing Address: 1 North Carmeuse Drive

City: Gary

State: IN

ZIP Code: 46406 -

21. Electronic Mail Address (optional): henry.sparks@carmeuse.com

22. Telephone Number: ( 219 ) 269 - 4747

23. Facsimile Number (optional): ( ) -

**PART D: Authorized Individual/Responsible Official Information**

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Bruce Hudson

25. Title: Site Operations Manager

26. Mailing Address: 1 North Carmeuse Drive

City: Gary

State: IN

ZIP Code: 46406 -

27. Telephone Number: ( 219 ) 290 - 5055

28. Facsimile Number (optional): ( ) -

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.

No  Yes - Change Responsible Official to: Bruce Hudson

**PART E: Owner Information**

30. Company Name of Owner: Carmeuse Lime, Inc.

31. Name of Owner Contact Person:

32. Mailing Address: 11 Stanwix Street 21<sup>st</sup> Floor

City: Pittsburgh

State: PA

ZIP Code: 15222 -

33. Telephone Number: ( 412 ) 995 - 5500

34. Facsimile Number (optional): ( ) -

34. Operator: Does the "Owner" company also operate the source to which this application applies?

No - Proceed to Part F below.  Yes - Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

**PART F: Operator Information**

35. Company Name of Operator: Carmeuse Lime, Inc.

36. Name of Operator Contact Person: Bruce Hudson

37. Mailing Address: 1 North Carmeuse Drive

City: Gary

State: IN

ZIP Code: 46406 -

38. Telephone Number: ( 219 ) 290 - 5055

39. Facsimile Number (optional): ( ) -





**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Lime Manufacturing	Quicklime	3274	32741

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date
41162	Title V Renewal	12/22/2028

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation
	N/A			

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
			See application narrative			

## **APPENDIX B. EMISSION CALCULATIONS**

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**Appendix B: Emissions Calculations  
Summary**

**Company Name:** Carmeuse Lime, Inc.

**Address:** 1 North Carmeuse Dr, Gary, IN 46406

**Uncontrolled PTE (tpy)**

<b>Emission Unit</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>HAPs</b>	<b>Worst Single HAP</b>
Lime Transloading Operation	1,603.08	1,603.08	1,603.08	-	-	-	-	-	-
<b>Total</b>	<b>1,603.08</b>	<b>1,603.08</b>	<b>1,603.08</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Significant Source Modification Lower Thresholds <sup>1</sup>	25	25	25	25	25	25	100	25	10
Significant Source Modification Required?	Yes	Yes	Yes	No	No	No	No	No	No

**Controlled PTE (tpy)**

<b>Emission Unit</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>
Transloader Operation	4.61	4.61	4.61	-	-	-	-
<b>Total</b>	<b>4.61</b>	<b>4.61</b>	<b>4.61</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Significant Emission Rates <sup>2</sup>	25	15	10	40	40	40	100
Major New Source Review Required?	No	No	No	No	No	No	No

**Notes**

1. 326 IAC 2-7-10.5(g).
2. 326 IAC 2-2-1(ww).

**Appendix B: Emissions Calculations  
Lime Transloading Operation**

**Company Name:** Carmeuse Lime, Inc.

**Address:** 1 North Carmeuse Dr, Gary, IN 46406

**Transloaders**

Capture Efficiency = 99.9 %

**Uncontrolled Emissions**

Facility	Maximum Capacity	Maximum Capacity	PM /PM <sub>10</sub> /PM <sub>2.5</sub> Emission Factor <sup>1,2</sup>	Uncontrolled Emissions
	(ton/hr)	(ton/yr)	(lb/ton)	PM /PM <sub>10</sub> /PM <sub>2.5</sub> (tons/yr)
Lime Transloader	300	2,628,000	0.61	801.54
Lime Transloader	300	2,628,000	0.61	801.54
				<b>1,603.08</b>

**Fugitive Uncaptured Emissions**

Facility	Maximum Capacity	Maximum Capacity	PM /PM <sub>10</sub> /PM <sub>2.5</sub> Emission Factor <sup>1,2</sup>	Uncaptured Emissions
	(ton/hr)	(ton/yr)	(lb/ton)	PM /PM <sub>10</sub> /PM <sub>2.5</sub> (tons/yr)
Lime Loadout (enclosed truck)	300	2,628,000	0.61	0.80
Lime Loadout (enclosed truck)	300	2,628,000	0.61	0.80
				<b>1.60</b>

**Dust Collector Controlled Emissions**

Facility	Control Device	Grain Loading	Exhaust Flow Rate	Controlled Emissions	
		(gr/dscf)	(dscfm)	PM /PM <sub>10</sub> /PM <sub>2.5</sub> <sup>2</sup> (lb/hr)	(ton/yr)
Transloading Operation	Fabric filter	0.02	2000	0.34	1.50
Transloading Operation	Fabric filter	0.02	2000	0.34	1.50
					<b>3.00</b>

**Notes**

1. Emission factor source: Product loading, enclosed truck, SCC 3-05-016-26, AP-42 Table 11.17-4 (February 1998).
2. No emission factor available for PM 10 or PM2.5. PM 10 and PM2.5 taken as equal to PM for a worst case analysis.

**Methodology**

Uncontrolled Potential to Emit (tons/yr) = Maximum Capacity (tons/yr) x Emission Factor (lb/ton) / 2,000 (lb/ton)

Fugitive Potential to Emit (tons/yr) = Maximum Capacity (tons/yr) x Emission Factor (lb/ton) / 2,000 (lb/ton) x (1 - Capture Efficiency)

Dust Collector Potential to Emit (tons/yr) = Exit Grain Loading (gr/dscf) x Exhaust Flowrate (dscfm) x 60 (min/hr) / 7,000 (lb/gr) x 8,760 (hr/yr) / 2,000 (lb/ton)