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

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: 133-48040-00061 AI ID: 60270

DATE APPLICATION WAS RECEIVED:
Received
State of Indiana
JUL 01 2024
Dept of Environmental Mgmt
Office of Air Quality

CM-1

1. Tax ID Number: [redacted]

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: CC Cook & Son Lumber Company **3. Plant ID:** –

4. Billing Address: 6236 W US Hwy 40

City: Reelsville **State:** Indiana **ZIP Code:** 46171

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.*

☑ Initial Permit
☐ Renewal of Operating Permit
☐ Asphalt General Permit
☐ Review Request
☐ Revocation of Operating Permit
☐ Alternate Emission Factor Request
☐ Interim Approval
☐ Relocation of Portable Source
☐ Acid Deposition (Phase II)
☐ Site Closure
☐ Emission Reduction Credit Registry

☐ Transition (between permit levels) *From:* *To:*

☐ Administrative Amendment:
☐ *Company Name Change*
☐ *Change of Responsible Official*
☐ *Correction to Non-Technical Information*
☐ *Notice Only Change*
☐ *Other (specify):*

☐ Modification:
☐ *New Emission Unit or Control Device*
☐ *Modified Emission Unit or Control Device*
☐ *New Applicable Permit Requirement*
☐ *Change to Applicability of a Permit Requirement*
☐ *Prevention of Significant Deterioration*
☐ *Emission Offset*
☐ *MACT Preconstruction Review*
☐ *Minor Source Modification*
☐ *Significant Source Modification*
☐ *Minor Permit Modification*
☐ *Significant Permit Modification*
☐ *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

Continued on Next Page

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:* 04/25/2024

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.*

John Byers	Forester
Name *(typed)*	Title
John Byers	6/25/2024
Signature	Date

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

State Form 50640 (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

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.

133-48040-00061

PART A: Source / Company Location Information

1. **Source / Company Name**: CC Cook & Son Lumber Company | 2. **Plant ID**: –
3. **Location Address**: 6236 W. US HWY 40
   City: Reelsville | **State**: IN | **ZIP Code**: 46171
4. **County Name**: Putnam | 5. **Township Name**: Washington
6. **Geographic Coordinates**:
   Latitude: 39° 33' 00.04" N | **Longitude**: 86° 57' 42.00" W
7. **Universal Transferal Mercadum Coordinates** *(if known)*:
   Zone: | **Horizontal**: | **Vertical**:
8. **Adjacent States**: Is the source located within 50 miles of an adjacent state?
   ☐ No ☑ Yes – *Indicate Adjacent State(s):* ☑ Illinois (IL) ☐ Michigan (MI) ☐ Ohio (OH) ☐ Kentucky (KY)
9. **Attainment Area Designation**: Is the source located within a non-attainment area for any of the criteria air pollutants?
   ☑ No ☐ Yes – *Indicate Nonattainment Pollutant(s):* ☐ CO ☐ Pb ☐ NO_x ☐ O_3 ☐ PM ☐ PM_{10} ☐ $PM_{2.5}$ ☐ SO_2
10. **Portable / Stationary**: Is this a portable or stationary source? ☐ Portable ☑ Stationary

PART B: Source Summary

11. **Company Internet Address** *(optional)*: WWW. cooklumber. com
12. **Company Name History**: Has this source operated under any other name(s)?
    ☑ No ☐ 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?
    ☑ Not Applicable ☐ No ☐ 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?
    ☑ No ☐ 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?
    ☑ No ☐ 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?
    ☐ No ☑ 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?
    ☐ Not Required ☑ No ☐ Yes → Date submitted: EPA Facility Identifier: – –

Continued on Next Page

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: John Byers		
19. Title *(optional)*: Forester		
20. Mailing Address: 6236 W. US Hwy 40		
City: Reelsville	**State**: IN	**ZIP Code**: 46171
21. Electronic Mail Address *(optional)*: cooktimber@ccrtc.com		
22. Telephone Number: (765) 672- 4235	**23. Facsimile Number** *(optional)*: (765) 672- 4600	

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: N/A		
25. Title:		
26. Mailing Address:		
City:	**State**:	**ZIP Code**: –
27. Telephone Number: ( ) –	**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***:

PART E: Owner Information

30. Company Name of Owner: CC Cook & Son Lumber Company		
31. Name of Owner Contact Person: Craig Cook, Shawn Cook, Charles (Chip) Cook		
32. Mailing Address: 6236 W US Hwy 40		
City: Reelsville	**State**: IN	**ZIP Code**: 46171
33. Telephone Number: (765) 672- 4235	**34. Facsimile Number** *(optional)*: (765) 672- 4600	

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: Same as owner		
36. Name of Operator Contact Person:		
37. Mailing Address:		
City:	**State**:	**ZIP Code**: –
38. Telephone Number: ( ) –	**39. Facsimile Number** *(optional)*: ( ) –	

Continued on Next Page

PART G: Agent Information

40. Company Name of Agent: N/A

41. Type of Agent: ☐ Environmental Consultant ☐ Attorney ☐ Other (specify):

42. Name of Agent Contact Person:

43. Mailing Address:

City:	**State**:	**ZIP Code**: –

44. Electronic Mail Address *(optional)*:

45. Telephone Number: ( ) –	**46. Facsimile Number** *(optional)*: ( ) –

47. Request for Follow-up: Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? ☐ No ☐ Yes

PART H: Local Library Information

48. Date application packet was filed with the local library: 7/8/2024

49. Name of Library: Putnam County Public Library

50. Name of Librarian *(optional)*:

51. Mailing Address: 103 E Poplar

City: Greencastle	**State**: IN	**ZIP Code**: 46135

52. Internet Address *(optional)*:

53. Electronic Mail Address *(optional)*:

54. Telephone Number: (765) 653-2755	**55. Facsimile Number** *(optional)*: ( ) –

PART I: Company Name History *(if applicable)*

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. Legal Name of Company N/A	**57. Dates of Use**
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to

58. Company Name Change Request: Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?

☐ No ☐ Yes – ***Change Company Name to:***

Continued on Next Page

PART J: Portable Source Location History *(if applicable)*

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

59. Plant ID	60. Location of the Portable Source N/A	61. Dates at this Location
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to

PART K: Request to Change Location of Portable Source *(if applicable)*

Complete this section to request a change of location for a portable source.

62. Current Location: N/A

Address:		
City:	**State**:	**ZIP Code**: –
County Name:		

63. New Location:

Address:		
City:	**State**:	**ZIP Code**: –
County Name:		

Continued on Next Page

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
Sawmill	Logs, Lumber, Pallets, Bark, Sawdust, wood products	2421	321113

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
	N/A	

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
			N/A			

OAQ GENERAL SOURCE DATA APPLICATION
GSD-02: Plant Layout Diagram

State Form 51605 (R3 / 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

NOTES:

- The purpose of GSD-02 is to provide a diagram of the entire plant site. This form and a Plant Layout diagram are required for all air permit applications. If you do not provide the necessary information, applicable to your source, the application process may be stopped.
- IDEM, OAQ has provided detailed instructions for this form and an example of a basic plant layout diagram 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.

Part A: Basic Plant Layout

Part A provides IDEM, OAQ with the appropriate information about all buildings and access-limiting features in and around the plant site. **Please use this table as a checklist.** You must provide scaled drawings, with the actual scale shown. All dimensions and units must be clearly indicated with a brief explanation of what is being shown. Include the following (*All measurements should be given in feet.*):

1.	☑ Building Location and Dimensions				
2.	☑ Property Lines and Access-Limiting Features				
3.	☑ Surrounding Building Location and Dimensions				
4.	☑ Distances to Property Lines and Access-Limiting Features				
5.	☑ UTM Location Coordinates	6.	☑ Compass (pointing North)	7.	☑ Scale

Part B: Stack Information

Part B provides IDEM, OAQ with the appropriate information about all stacks, roof monitors, control devices, and process vents at the plant site. **Please use this table as a checklist.** You must show the location of all applicable emission points and include all relevant stack and emissions unit identification numbers for each. In addition, you will need to identify each of these emission points under "Stack Identification" on form GSD-04, Stack/Vent Information. Include the following (*All measurements should be in feet.*):

8.	☑ Exhaust Stacks	Kiln 24" Flue 35' tall Wood balers (Heat) 10" 20' tall stack
9.	☐ Process Vents	2 Pallet Bldg. 10', 1 mill - 12", 1 dryshed 24"
10.	☐ Roof Monitors	☑ *No Roof Monitors*
11.	☐ Control Devices	☑ *No Control Devices*
12.	☑ Interior Vents	☐ *No Interior Vents* ☐ Doors and Windows *(for processes vented inside a building)*

Part C: Roadway Information

Part C provides IDEM, OAQ with the appropriate information about the roadways in and around the plant site. **Please use this table as a checklist.** Include the following (*All measurements should be in feet.*):

13.	☑ Adjacent Roadways ☑ Interior Roadways	US Hwy 40 & CR 625 W
14.	☐ Roadway Surface Description (gravel, dirt, paved, etc.)	Paved Concrete/Gravel
15.	☐ Number of Lanes	2

Continued on Next Page

Part D: Source Building Information

This table provides detailed information about each building at the plant site that is part of the source. If additional space is needed, you may make a copy of this table. (*All measurements should be given in feet.*)

16. Building ID	17. Building Description	18. Building Dimensions			19. Distance & direction to the nearest property line or access limiting feature (feet & compass coordinate)	20. Distance & direction to the nearest residence (feet & compass coordinate)
		Length (feet)	Width (feet)	Height (feet)		
(1)	Warehouse/Shop	160	90	24	136' to Hwy 40	550 to Cook Residence
(2)	Dry Kiln	120	45	35	175' to Rd	50' to House
(3)	Grading Shed	160	60	20	60' to Hwy 40	50' to House 2+3
(4)	Sticking Shed	160	60	20	60' to Hwy 40	50' to House 2+3
(5)	Pallet Bldg	150	85	30	150' to Hwy 40	N/A
(6)	Office	88	40	12	220' to Hwy 40	N/A
(7)	Warehouse	60	50	18	230 to Hwy 40	N/A
(8)	Sawmill	305	80	22	525' to CR 625	N/A

Continued on Next Page

Part E: Surrounding Building / Residence Information

This table provides detailed information about each building or residence surrounding the plant site. If additional space is needed, you may make a copy of this table. (*All measurements should be given in feet.*)

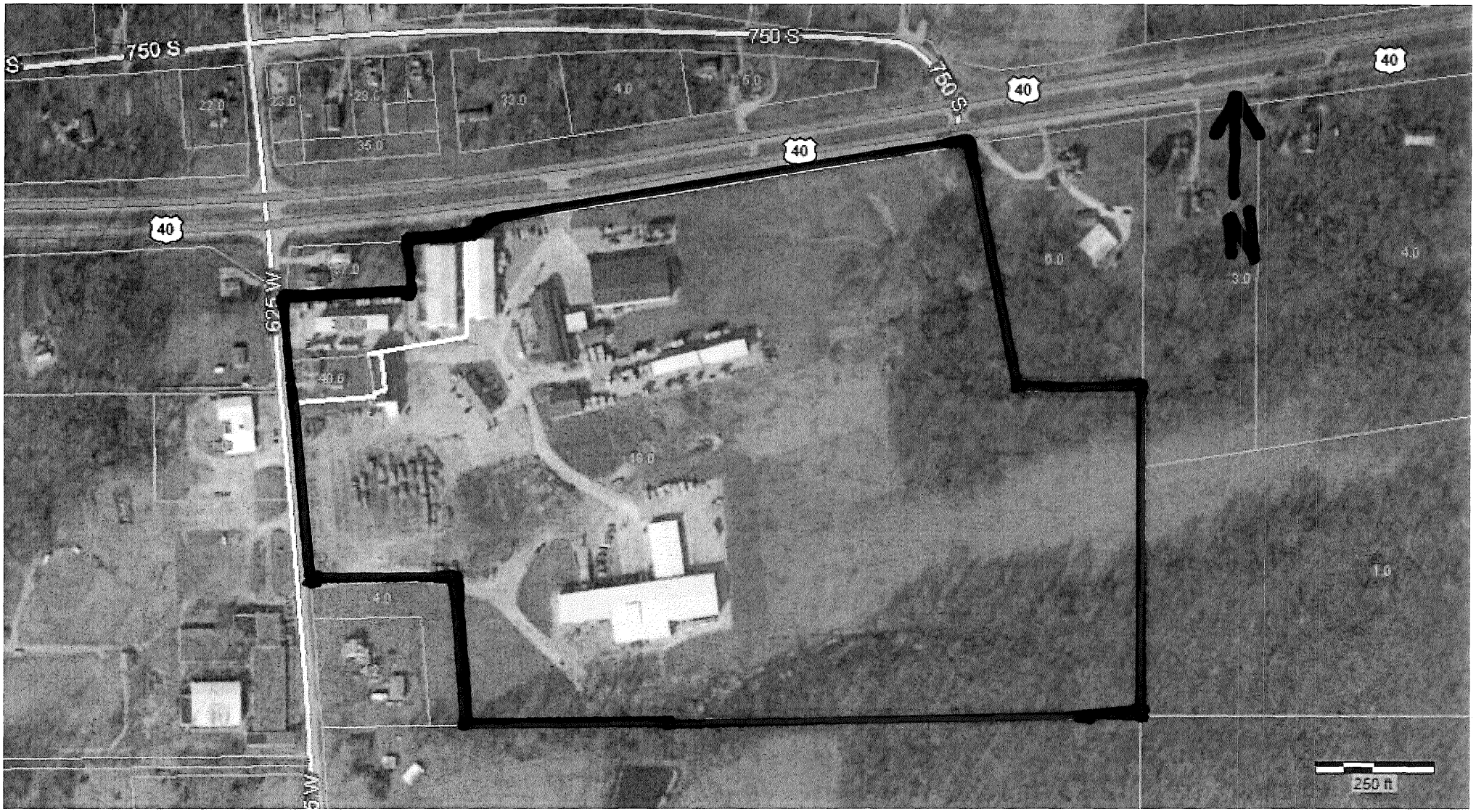
21. Surrounding Building / Residence Description	22. Surrounding Building / Residence Property Dimensions			23. Distance & direction to the nearest property line or access limiting feature (feet & compass coordinate)	24. Building ID of nearest building on the plant site	25. Distance & direction to the nearest building on the plant site (feet & compass coordinate)
	Length (feet)	Width (feet)	Height (feet)			
Ronald T. Cook	60'	40'	20'	550' to nearest bldg.	Bldg. 1	550' West
Sherry Hanley	40'	40'	15'	40' to property line	Bldg. 2	80' east
Empty house corner	40'	50'	15'	60' to line	Bldg. 3	120' east

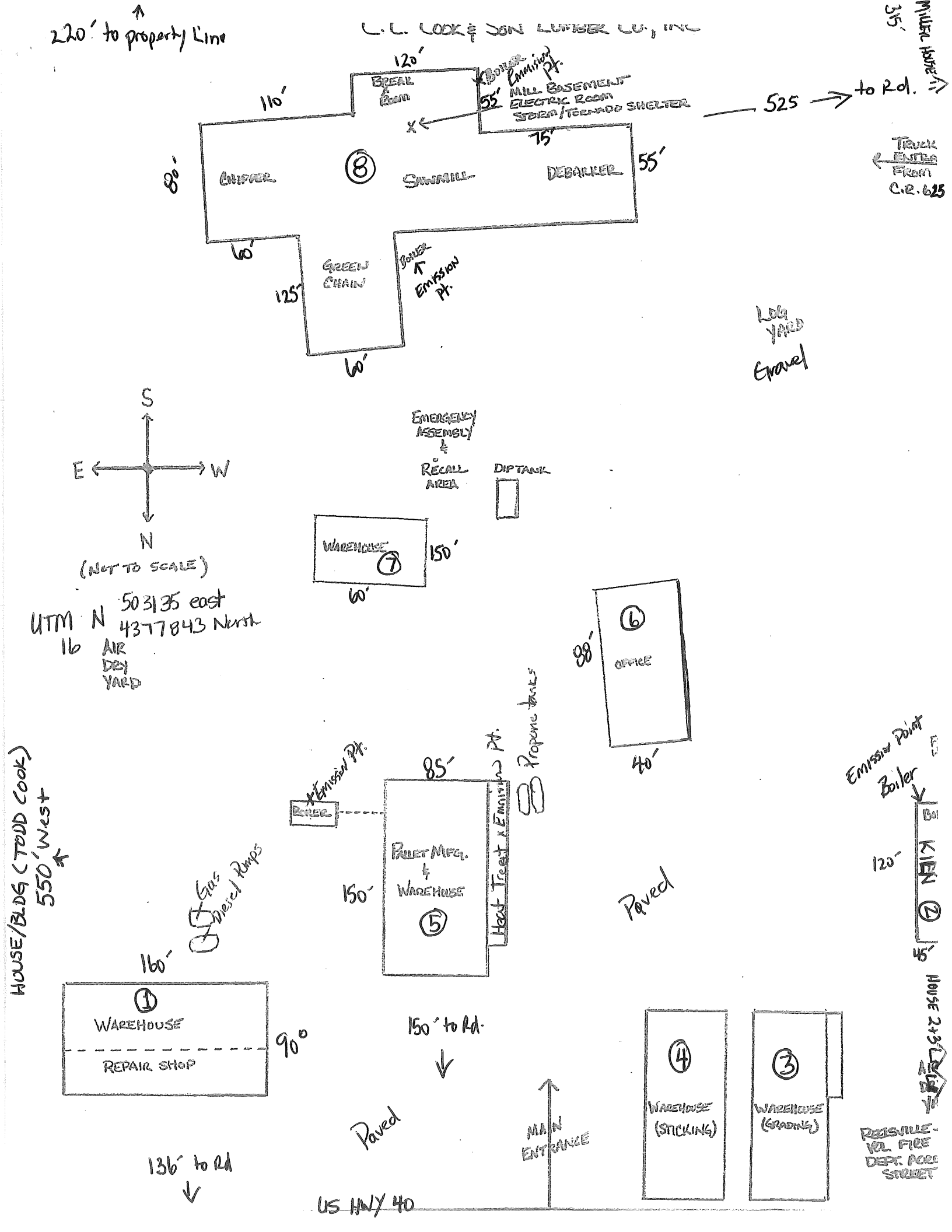
Continued on Next Page

Part F: Plant Layout Diagram

This space provides a place for a hand drawn plant layout diagram. It is **optional** to use this space to create your plant layout, but you must include the diagram with your application. If you choose to submit the plant layout in a different format, state "plant layout attached" in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic plant layout diagram on the Air Permit Applications Forms website.

– See Attached diagram/map –


750 S
750 S
750 S
40
40
40
40
625 W
N
250 ft


220' to property line
C. L. COCK & SON LUMBER CO., INC
120'
BREAK ROOM
BOILER Emission Pt.
110'
55'
MILL BASEMENT
ELECTRIC ROOM
STORM/TORNADO SHELTER
525
to Rd.
35'
MILLER HOUSE
X
75'
80'
CHIPPER
8
SAWMILL
DEBARKER
55'
TRUCK ENTRY FROM C.R. 625
60'
GREEN CHAIN
125'
BOILER Emission Pt.
60'
LOG YARD
Gravel
S
E
W
N
(NOT TO SCALE)
EMERGENCY ASSEMBLY
RECALL AREA
DIP TANK
WAREHOUSE
7
150'
60'
UTM N 503135 east
4377843 North
16
AIR DRY YARD
6
OFFICE
88'
40'
Emission Pt.
BOILER
85'
Emission Pt.
Propane tanks
PALLET MFG. & WAREHOUSE
5
150'
Heat Treat x Emission Pt.
Paved
Emission Point
Boiler
BOILER
KILN
2
120'
45'
HOUSE/BLDG (TOWD COOK)
550' West
Gas
Diesel
Pumps
160'
1
WAREHOUSE
REPAIR SHOP
90°
150' to Rd.
HOUSE 2+3
Paved
MAIN ENTRANCE
4
WAREHOUSE (STICKING)
3
WAREHOUSE (GRADING)
REEDSVILLE VOL FIRE DEPT. POND
STREET
136' to Rd
US HWY 40

OAQ GENERAL SOURCE DATA APPLICATION
GSD-03: Process Flow Diagram

State Form 51599 (R3 / 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

NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form and an example of a basic process flow diagram 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.

Part A: Process Flow Diagram

Part A provides basic information to understanding the nature of the process. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (*All throughputs should be given in pounds per hour.*):

1. ☑ **Process Description:**
2. ☑ Process Equipment
3. ☑ Raw Material Input
4. ☑ Process Throughput
5. ☐ Additions ☐ Deletions ☐ Modifications NONE

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (*If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.*)

N/A

Part B: Process Operation Schedule

Part B indicates the actual (or estimated actual) hours of operation for the process.

6. ☑ Process Operation Schedule 10 Hours per Day 4 Days per Week ~50 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (*If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.*)

Usually shut down for a week at Christmas
Sometimes Shut down for 4th of July week.

Part C: Emissions Point Information

Part C provides information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (*All throughputs should be given in pounds per hour.*):

8. ☑ Stack / Vent Information
9. ☑ Pollutants Emitted See PTE Calculations attached
10. ☑ Air Pollution Control

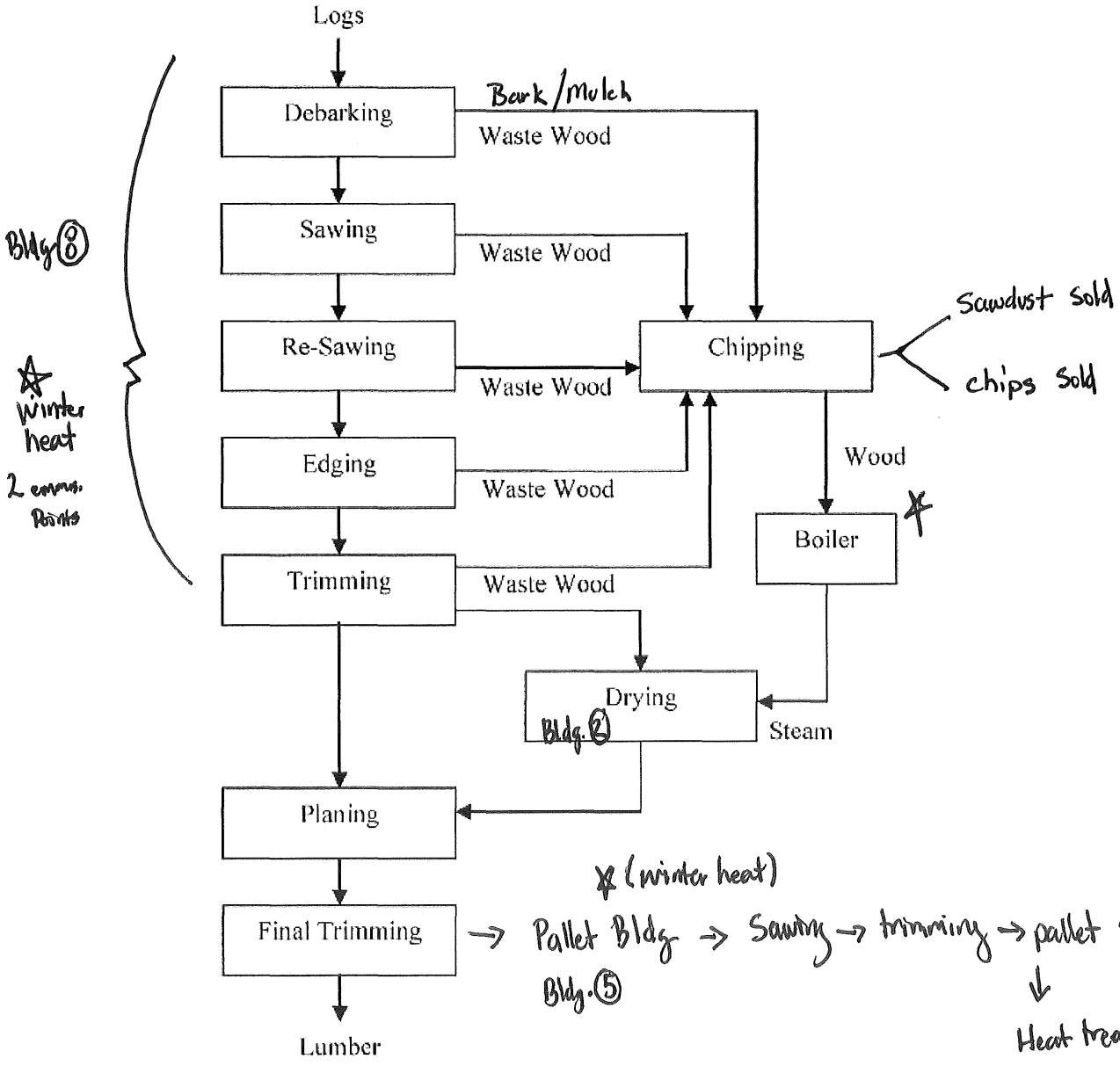
Continued on Next Page

Part D: Process Flow Diagram

This space provides a place for a hand drawn process flow diagram. It is **optional** to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state "process flow diagram attached" in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram on the Air Permit Applications Forms website.

See attached Process Flow Diagram

Process Flow Diagram
CC Cook & Son Lumber Co.



✱ = Emission Point

OAQ GENERAL SOURCE DATA APPLICATION
GSD-04: Stack / Vent Information
State Form 51606 (R3 / 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

NOTES:

- The purpose of this form is to provide basic information about each stack or vent that has the potential to emit air pollutants. If you do not provide enough information to adequately describe each process vent and/or stack, the application process may be stopped. This form is required for all air permit applications.
- Detailed instructions for this form are available online 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.

Stack / Vent Information

This table provides detailed information about each stack or vent through which air pollutants could be released into the atmosphere. If an air stream is vented inside a building, the vent does not need to be listed on this form. If additional space is needed, you may make a copy of this form.

	1. Stack / Vent ID	2. Type (V H W O)	3. Shape (C R O)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks / Vents (B P O)
②	Dry Kiln	V	R	24" (2')	35'	N/A	N/A	N/A
⑥	Boiler (Saw)	V	R	10" (.83')	20'	N/A	N/A	N/A
⑧	Boiler (Saw)	V	R	10" (.83')	20'	N/A	N/A	N/A
⑤	Boiler (Pall)	V	R	10" (.83')	20'			

OAQ GENERAL SOURCE DATA APPLICATION
GSD-05: Emissions Unit Information
State Form 51610 (R3 / 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

NOTES:

- The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.
- Detailed instructions for this form are available online 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.

Emissions Unit Information

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

1. Unit ID	2. Model Number	3. Serial Number	4. Description	5. Manufacturer	6. Installation Date	7. Maximum Capacity	8. Stack / Vent ID
165	GP25N	AT35A07165	PALLET BLD CAT FORKLIFT	CAT	1-1-23		
183	PD12,000	AT28C80153	FORKLIFT DRY SHEAD	CAT	1-10-18		
4064	GDP100MJN	PBV110 E8134	09108 FORKLIFT STICK BLD	YALE	6-1-15		
1222	FD45	14534159	FORK TRUCK MILL	TOYOTA	6-1-11		
49	FD45	FD4515163	FORK TRUCK STICK BLD	TOYOTA	6-1-11		
99	62-6FDU25	6FDU25-60142	FORK TRUCK KILN	TOYOTA	9-1-00		
55	AF28A-50139	FD50	FORK TRUCK STICK BLD	MITSUBISHI			
419	FD25N	AF18C00447	FORK TRUCK PALLET	MITSUBISHI			
69	FD50K	AF28B50045	FORK TRUCK MILL	MITSUBISHI			
551	TE250S	SH2-22551	FORK TRUCK DRY SHEAD	TAYLOR			
198	TE250M	SH5-22198	FORK TRUCK STICK BLD	TAYLOR			
834	VCE0L60GT	00001834	L60G LOADER	VOLVO			
091	L60E	L60EV60091	LOADER	VOLVO			
440	T660	496440	SEMI	KENWORTH			
041	W900	163241	SEMI	KENWORTH			
05	379	866190	SEMI	PETERBILT			

OAQ GENERAL SOURCE DATA APPLICATION
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NOTES:

- The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.
- Detailed instructions for this form are available online 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.

Emissions Unit Information

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

1. Unit ID	2. Model Number	3. Serial Number	4. Description	5. Manufacturer	6. Installation Date	7. Maximum Capacity	8. Stack / Vent ID
91	379	306132	SAWDUST TRUCK	PETERBUILT			
96	RB688S	003666	LOGTRUCK	MACK			
85		785L01337	SPOTTER TRUCK	CHAMPION			
71	3000	C1953711	FORD TRACTOR	FORD			
74	850 M	NFDC80074	CASE DOZER	CASE			
729	580 E	19031729	CASE BACKHOE	CASE			
			2020 F150 CHIP	FORD			
			DODGE 1500	DODGE			
			LINCON MKZ HYBRID 2014	LINCOLN			
			F150 KING RANCH 2010	FORD			
			3500 SHOP TRUCK 1994	GMC			
			CHEVY 1500 TOMMY 2017	CHEVY			
			JEEP GRAND CHEROKEE 2017	JEEP			
(8)			Central Boiler / Heat	Central Boiler		2.17 T/y	(8)
(8)			Central Boiler / Heat	Central Boiler		2.17 T/y	(8)
(5)			Central Boiler / Heat	Central Boiler		2.17 T/y	(5)

OAQ GENERAL SOURCE DATA APPLICATION
GSD-05: Emissions Unit Information
State Form 51610 (R3 / 1-10)
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NOTES:

- The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.
- Detailed instructions for this form are available online 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.

Emissions Unit Information

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

1. Unit ID	2. Model Number	3. Serial Number	4. Description	5. Manufacturer	6. Installation Date	7. Maximum Capacity	8. Stack / Vent ID
(2)			Large Boiler / Heats Kiln	Homemade/Koetter	1983	75 Dekatherms/hr.	(2)
(5)			Heat treating / Pallets	Heatmore	2022	400 BTU	(5)
(5)			Heat treating / Pallets	Heatmore	2022	400 BTU	(5)

OAQ GENERAL SOURCE DATA APPLICATION
GSD-06: Particulate Emissions Summary

State Form 51612 (R3 / 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

NOTES:

- The purpose of this form is to provide basic information about each source of particulate emissions. This form is required for all air permit applications.
- 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.

Part A: Particulate Matter Emissions

Part A provides a summary of the type and amount of particulate emissions at the source. The state rules on particulate emissions are found in Title 326 of the Indiana Administrative Code, Article 6, Particulate Rules. If you do not provide enough information to adequately describe each source of particulate emissions, the application process may be stopped. If additional space is needed, you may make a copy of this table.

Emissions Point		Potential To Emit (tons per year)						
1. ID	2. Description	3. PM	4. PM-10	5. PM-2.5	6. TSP	7. Fugitive Dust	8. Fugitive PM	9. HAP PM
	Sawdust Handling	1.15	1.15	1.15				
	Wet Sawdust Fired Boilers	3.25	2.86	2.46				
	Pallet Drying	0.11	0.05	0.05		See Potential to Emit Calculations Attached.		
	Heat treating	0	0	0				
	Pallet Production Shop (Woodworking)	12.4	7.14	7.14				
	Propane Tanks	–	–	–				
	Fuel Dispensing	–	–	–				
	Paved Roads	.15	.03	.01				
	Unpaved Roads	.29	.08	.01				

Continued on Next Page

Part B: Control of Particulate Emissions

Part C gathers information about how each source of particulate emissions is controlled. If you do not provide enough information to adequately describe how each source of particulate emissions is controlled, the application process may be stopped. If additional space is needed, you may make a copy of this table.

10. Emissions Point ID	11. Control Measure	12. Control Measure Description	13. Control Plan
Unpaved Roads	☐ No Control ☑ Dust Suppression ☐ Other: _____	Water as needed	☐ Yes ☑ No Date Submitted: _____
Planer	☐ No Control ☑ Dust Suppression ☐ Other: _____	Sawdust collection / cyclone	☐ Yes ☑ No Date Submitted: _____
Sawmill	☑ No Control ☐ Dust Suppression ☐ Other: _____	Blown into trucks and hauled away	☐ Yes ☑ No Date Submitted: _____
Kiln	☐ No Control ☐ Dust Suppression ☑ Other: _____	Control rate of burn + monitor	☐ Yes ☑ No Date Submitted: _____
3 central Boilers	☐ No Control ☐ Dust Suppression ☑ Other: _____	Control rate of burn + monitor	☐ Yes ☑ No Date Submitted: _____
Fuel dispensing	☐ No Control ☐ Dust Suppression ☑ Other: _____	Proper containers / Careful dispensing	☐ Yes ☐ No Date Submitted: _____
	☐ No Control ☐ Dust Suppression ☐ Other: _____		☐ Yes ☐ No Date Submitted: _____
	☐ No Control ☐ Dust Suppression ☐ Other: _____		☐ Yes ☐ No Date Submitted: _____

Air Permitting Rules 326 IAC 6-4 and 326 IAC 6-5 require fugitive dust to be controlled as needed to prevent dust from visibly crossing property lines. Parts C and D summarize sources of fugitive particulate emissions from process operations and unpaved roads.

PART C: Fugitive Dust *(if applicable)*

Part C identifies measures implemented for controlling fugitive particulate emissions from process operations and unpaved roads.

14. Dust Control Plans: *Check all that apply.*			**15. Control Measures:**
☐ Conveying:	☑ Wet	☐ Dry	Inherent moisture content
☑ Stock Piles:	☐ Open	☑ Covered	
☑ Unpaved Roads: *Watered?*	☐ Yes	☑ No	Watered as needed
☐ Other *(specify)*:			
☐ Other *(specify)*:			
☐ Other *(specify)*:			

PART D: Vehicular Traffic on Unpaved Roads *(if applicable)*

Part D gathers information on vehicular traffic patterns when the site contains unpaved roads. All data should be provided assuming peak hours of vehicular traffic. Two one-way trips equal one round trip. For external traffic (vehicles entering and leaving the property lines), the distance from the plant to the property line is the one-way trip distance.

16. Average Silt Content of Unpaved Roads:

17. Vehicle Description	18. Max. No. round trips at peak hours (trips/hr)	19. Distance of one-way trip (miles/trip)	20. Max. vehicle speed (mph)	21. Max. gross vehicle weight *(fully loaded)* (tons)	22. Tare weight (tons)	23. No. of wheels on vehicle (wheels)
	See attached calculations					

OAQ GENERAL SOURCE DATA APPLICATION
GSD-07: Criteria Pollutant Emissions Summary

State Form 51602 (R3 / 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

NOTES:

- The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.
- 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.

Part A: Unit Emissions Summary

Part A provides the actual and potential emissions of each criteria pollutant emitted from each emissions unit. If you do not provide enough information to adequately describe the emissions from each emissions unit, the application process may be stopped.

1. Unit ID	2. Stack / Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
Sawmill Boiler	(8)	NOX				2.17
Sawmill Boiler	(8)	NOX				2.17
Pallet, Bldg Boiler	(5)	NOX				2.17
Kiln Boiler	(2)	NOX				2.17
Heat treater Propane	(5)	NOX				.05
Sawdust Handling	(8)	Fugitive Emmissions			Particulate Matter	1.15

Continued on Next Page

Part B: Pollutant Emissions Summary

Part B provides the total actual and potential emissions of each criteria pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide enough information to adequately describe the total source emissions, the application process may be stopped.

6. Criteria Pollutant	7. Actual Emissions		8. Potential To Emit	
	Standard Units	Tons Per Year	Standard Units	Tons Per Year
Carbon Monoxide (CO)				5.93
Lead (Pb)				N/A
Nitrogen Oxides (NO_X)				2.22
Particulate Matter (PM)				17.35
Particulate Matter less than 10μm (PM_{10})				11.31
Particulate Matter less than 2.5μm ($PM_{2.5}$)				10.82
Sulfur Dioxide (SO_2)				.25
Volatile Organic Compounds (VOC)				.35
Other *(specify)*:				

Part C: Fugitive VOC Emissions *(if applicable)*

Part C summarizes the sources of fugitive VOC emissions at the source and estimates VOC emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3.

9. Fugitive Emissions Source	10. Emission Factor (lb/hr)	11. Number Leaking	12. Uncontrolled Potential To Emit	
			Pounds Per Hour	Tons Per Year
Compressor Seals				
Flanges	N/A			
Open-Ended Lines				
Pressure Relief Seals				
Pump Seals				
Sampling Connections				
Valves				
Other *(specify)*:				

OAQ GENERAL SOURCE DATA APPLICATION
GSD-12: Affidavit of Nonapplicability

State Form 51600 (R3 / 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

NOTES:

- The purpose of GSD-12 is to certify that the requirement to notify adjacent landowners and occupants is not applicable to the source of air pollutant emissions.
- 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.

PART A: Affidavit Of Nonapplicability

Complete this form to certify that the requirement to notify adjacent landowners and occupants pursuant to Indiana Code (IC) 13-15-8 is not applicable to the source of air pollutant emissions. This form must be notarized by a public notary.

John Byers, being first duly sworn upon oath, deposes and says:

1. I live in Clay County, State of 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 Forester for CC Cook & Son Lumber Co. (permit applicant's or facility's name).
3. By virtue of my position with CC Cook & Son Lumber Co. (permit applicant's name), I am authorized to make the representation contained in this affidavit on behalf of the facility.
4. I understand that the notice requirements of Ind. Code § 13-15-8 do not apply to CC Cook & Son Lumber Co. permit applicant's or facility's name) for purposes of the accompanying permit application.
5. **Further Affiant Saith Not.**

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

John Byers Name *(typed)*	Forester Title
John Byers Signature	6/25/2024 Date

STATE OF Indiana COUNTY OF Clay

PART B: Notarization

This section must be completed by a Public Notary.

Before me a notary Public in and for said County and State, personally appeared John Byers, and being first duly sworn by me upon oath, says that the fact stated in the foregoing instrument are true. Signed and sealed this 25th of June, 2024

Printed: Cayle M Rogers My Commission Expires: 4-20-2029

Residence of Clay County Clay

Signature: Cayle M Rogers

Cayle M. Rogers
Notary Public, State of Indiana
Commission Number NP0733175
My Commission Expires 04/20/2029

OAQ FEDERAL RULE INCORPORATION APPLICATION
FED-01: Summary of Federal Requirements – NSPS & NESHAP

State Form 53512 (R / 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

NOTES:

- The purpose of this form is to provide a standardized way for sources to identify the NSPS or NESHAP requirements that are applicable to the regulated source. Complete one (1) form for each federal rule that applies to the source. This 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.

Part A: Identification of Applicable Standard

Part A identifies the applicable standard and affected source.

1. **Type of Standard:** ☐ Part 60 NSPS ☐ Part 61 NESHAP ☑ Part 63 NESHAP (MACT)
2. **Subpart Letter:** 6C
3. **Source Category Name:** Gasoline Dispensing
4. **Affected Source** *(Include all applicable emission unit IDs)*: Gasoline Dispensing Tank + Pump

Part B: Applicable Requirements

Part B specifies the specific requirements of the federal rule that are applicable to the process or emission unit.

5. **Applicable Requirements**: *Identify the section of the federal standard that is applicable at the lowest subsection level. For example, if all of 40 CFR 63.342(c) is applicable, "40 CFR 63.342(c)" is the appropriate citation. If only paragraph 2 of 40 CFR 63.342(c) is applicable, then the appropriate citation is 40 CFR 63.342(c)(2).*

- 63.11110
- 63.11111
- 63.11116
- 63.11112d
- 63.11132
- 63.11112
- 63.11125
- 63.11126
- 63.11113
- 63.11117b
- 63.11092f
- 63.11111f
- 63.11116
- 63.11115
- 63.6(h)(2)(i)
- " " (ii)
- 63.6 – 63.15

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Part C: Performance Testing Requirements

Part C identifies the performance testing requirements that are applicable to the process or emission unit.

6. Performance Testing:	
7. Date of Initial Performance Test:	N/A
8. Test Methods:	
9. Was the initial performance test approved by IDEM?	☐ Yes: *Date approved:* _____ ☐ No
10. Did the initial performance test show compliance with the rule?	☐ Yes ☐ No: *Date of next performance test:* _____

Part D: Important Dates

Part D identifies specific dates associated with the federal standard that are applicable to the process or emission unit.

11. Date Initial Notification was Submitted:	N/A
12. Initial Compliance Date:	☐ Startup: _____ ☐ Other: _____
13. Other Dates	Description: _____ Date: _____
	Description: _____ Date: _____
	Description: _____ Date: _____

Part E: Other Information

Part E identifies any additional information pertaining to the applicable federal rule. Attach additional information using form GSD-09 as necessary.

N/A

Electronic Code of Federal Regulations

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

Source: 73 FR 1945, Jan. 10, 2008, unless otherwise noted.

What This Subpart Covers

§ 63.11110 What is the purpose of this subpart?

This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices.

§ 63.11111 Am I subject to the requirements in this subpart?

(a) The affected source to which this subpart applies is each GDF that is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.

(b) If your GDF has a monthly throughput of less than 10,000 gallons of gasoline, you must comply with the requirements in § 63.11116.

(c) If your GDF has a monthly throughput of 10,000 gallons of gasoline or more, you must comply with the requirements in § 63.11117.

(d) If your GDF has a monthly throughput of 100,000 gallons of gasoline or more, you must comply with the requirements in § 63.11118.

(e) An affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable. For new or reconstructed affected sources, as specified in § 63.11112(b) and (c), recordkeeping to document monthly throughput must begin upon startup of the affected source. For existing sources, as specified in § 63.11112(d), recordkeeping to document monthly throughput must begin on January 10, 2008. For existing sources that are subject to this subpart only because they load gasoline into fuel tanks other than those in motor vehicles, as defined in § 63.11132, recordkeeping to document monthly throughput must begin on January 24, 2011. Records required under this paragraph shall be kept for a period of 5 years.

(f) If you are an owner or operator of affected sources, as defined in paragraph (a) of this section, you are not required to obtain a permit under 40 CFR part 70 or 40 CFR part 71 as a result of being subject to this subpart. However, you must still apply for and obtain a permit under 40 CFR part 70 or 40 CFR part 71 if you meet one or more of the applicability criteria found in 40 CFR 70.3(a) and (b) or 40 CFR 71.3(a) and (b).

(g) The loading of aviation gasoline into storage tanks at airports, and the subsequent transfer of aviation gasoline within the airport, is not subject to this subpart.

(h) Monthly throughput is the total volume of gasoline loaded into, or dispensed from, all the gasoline storage tanks located at a single affected GDF. If an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source.

(i) If your affected source's throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold.

(j) The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the area source is only subject to § 63.11116 of this subpart.

(k) For any affected source subject to the provisions of this subpart and another Federal rule, you may elect to comply only with the more stringent provisions of the applicable subparts. You must consider all provisions of the rules, including monitoring, recordkeeping, and reporting. You must identify the affected source and provisions with which you will comply in your Notification of Compliance Status required under § 63.11124. You also must demonstrate in your Notification of Compliance Status that each provision with which you will comply is at least as stringent as the otherwise applicable requirements in this subpart. You are responsible for making accurate determinations concerning the more stringent provisions, and noncompliance with this rule is not excused if it is later determined that your determination was in error, and, as a result, you are violating this subpart. Compliance with this rule is your responsibility and the Notification of Compliance Status does not alter or affect that responsibility.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4181, Jan. 24, 2011]

§ 63.11112 What parts of my affected source does this subpart cover?

(a) The emission sources to which this subpart applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing GDF that meet the criteria specified in § 63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this subpart.

(b) An affected source is a new affected source if you commenced construction on the affected source after November 9, 2006, and you meet the applicability criteria in § 63.11111 at the time you commenced operation.

(c) An affected source is reconstructed if you meet the criteria for reconstruction as defined in § 63.2.

(d) An affected source is an existing affected source if it is not new or reconstructed.

§ 63.11113 When do I have to comply with this subpart?

(a) If you have a new or reconstructed affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section, except as specified in paragraph (d) of this section.

(1) If you start up your affected source before January 10, 2008, you must comply with the standards in this subpart no later than January 10, 2008.

(2) If you start up your affected source after January 10, 2008, you must comply with the standards in this subpart upon startup of your affected source.

(b) If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.

(c) If you have an existing affected source that becomes subject to the control requirements in this subpart because of an increase in the monthly throughput, as specified in § 63.11111(c) or § 63.11111(d), you must comply with the standards in this subpart no later than 3 years after the affected source becomes subject to the control requirements in this subpart.

(d) If you have a new or reconstructed affected source and you are complying with Table 1 to this subpart, you must comply according to paragraphs (d)(1) and (2) of this section.

(1) If you start up your affected source from November 9, 2006 to September 23, 2008, you must comply no later than September 23, 2008.

(2) If you start up your affected source after September 23, 2008, you must comply upon startup of your affected source.

(e) The initial compliance demonstration test required under § 63.11120(a)(1) and (2) must be conducted as specified in paragraphs (e)(1) and (2) of this section.

(1) If you have a new or reconstructed affected source, you must conduct the initial compliance test upon installation of the complete vapor balance system.

(2) If you have an existing affected source, you must conduct the initial compliance test as specified in paragraphs (e)(2)(i) or (e)(2)(ii) of this section.

(i) For vapor balance systems installed on or before December 15, 2009, you must test no later than 180 days after the applicable compliance date specified in paragraphs (b) or (c) of this section.

(ii) For vapor balance systems installed after December 15, 2009, you must test upon installation of the complete vapor balance system.

(f) If your GDF is subject to the control requirements in this subpart only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in § 63.11132, you must comply with the standards in this subpart as specified in paragraphs (f)(1) or (f)(2) of this section.

(1) If your GDF is an existing facility, you must comply by January 24, 2014.

(2) If your GDF is a new or reconstructed facility, you must comply by the dates specified in paragraphs (f)(2)(i) and (ii) of this section.

(i) If you start up your GDF after December 15, 2009, but before January 24, 2011, you must comply no later than January 24, 2011.

(ii) If you start up your GDF after January 24, 2011, you must comply upon startup of your GDF.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008; 76 FR 4181, Jan. 24, 2011]

Emission Limitations and Management Practices

§ 63.11115 What are my general duties to minimize emissions?

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

(a) You must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) You must keep applicable records and submit reports as specified in § 63.11125(d) and § 63.11126(b).

[76 FR 4182, Jan. 24, 2011]

§ 63.11116 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.

(a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

(1) Minimize gasoline spills;

(2) Clean up spills as expeditiously as practicable;

(3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

(4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(b) You are not required to submit notifications or reports as specified in § 63.11125, § 63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(c) You must comply with the requirements of this subpart by the applicable dates specified in § 63.11113.

(d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4182, Jan. 24, 2011]

§ 63.11117 Requirements for facilities with monthly throughput of 10,000 gallons of gasoline or more.

(a) You must comply with the requirements in section § 63.11116(a).

(b) Except as specified in paragraph (c) of this section, you must only load gasoline into storage tanks at your facility by utilizing submerged filling, as defined in § 63.11132, and as specified in paragraphs (b)(1), (b)(2), or (b)(3) of this section. The applicable distances in paragraphs (b)(1) and (2) shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank.

(1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the tank.

(2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the tank.

(3) Submerged fill pipes not meeting the specifications of paragraphs (b)(1) or (b)(2) of this section are allowed if the owner or operator can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such demonstration must be made available for inspection by the Administrator's delegated representative during the course of a site visit.

(c) Gasoline storage tanks with a capacity of less than 250 gallons are not required to comply with the submerged fill requirements in paragraph (b) of this section, but must comply only with all of the requirements in § 63.11116.

(d) You must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(e) You must submit the applicable notifications as required under § 63.11124(a).

(f) You must comply with the requirements of this subpart by the applicable dates contained in § 63.11113.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008; 76 FR 4182, Jan. 24, 2011]

§ 63.11118 Requirements for facilities with monthly throughput of 100,000 gallons of gasoline or more.

(a) You must comply with the requirements in §§ 63.11116(a) and 63.11117(b).

(b) Except as provided in paragraph (c) of this section, you must meet the requirements in either paragraph (b)(1) or paragraph (b)(2) of this section.

(1) Each management practice in Table 1 to this subpart that applies to your GDF.

(2) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(2)(i) and (ii) of this section, you will be deemed in compliance with this subsection.

(i) You operate a vapor balance system at your GDF that meets the requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

(c) The emission sources listed in paragraphs (c)(1) through (3) of this section are not required to comply with the control requirements in paragraph (b) of this section, but must comply with the requirements in § 63.11117.

(1) Gasoline storage tanks with a capacity of less than 250 gallons that are constructed after January 10, 2008.

(2) Gasoline storage tanks with a capacity of less than 2,000 gallons that were constructed before January 10, 2008.

(3) Gasoline storage tanks equipped with floating roofs, or the equivalent.

(d) Cargo tanks unloading at GDF must comply with the management practices in Table 2 to this subpart.

(e) You must comply with the applicable testing requirements contained in § 63.11120.

(f) You must submit the applicable notifications as required under § 63.11124.

(g) You must keep records and submit reports as specified in §§ 63.11125 and 63.11126.

(h) You must comply with the requirements of this subpart by the applicable dates contained in § 63.11113.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008]

Testing and Monitoring Requirements

§ 63.11120 What testing and monitoring requirements must I meet?

(a) Each owner or operator, at the time of installation, as specified in § 63.11113(e), of a vapor balance system required under § 63.11118(b)(1), and every 3 years thereafter, must comply with the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must demonstrate compliance with the leak rate and cracking pressure requirements, specified in item 1(g) of Table 1 to this subpart, for pressure-vacuum vent valves installed on your gasoline storage tanks using the test methods identified in paragraph (a)(1)(i) or paragraph (a)(1)(ii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP-201.1E,—Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see § 63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in § 63.7(f).

(2) You must demonstrate compliance with the static pressure performance requirement specified in item 1(h) of Table 1 to this subpart for your vapor balance system by conducting a static pressure test on your gasoline storage tanks using the test methods identified in paragraphs (a)(2)(i), (a)(2)(ii), or (a)(2)(iii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP-201.3,—Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, adopted April 12, 1996, and amended March 17, 1999 (incorporated by reference, see § 63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in § 63.7(f).

(iii) Bay Area Air Quality Management District Source Test Procedure ST-30—Static Pressure Integrity Test—Underground Storage Tanks, adopted November 30, 1983, and amended December 21, 1994 (incorporated by reference, *see* § 63.14).

(b) Each owner or operator choosing, under the provisions of § 63.6(g), to use a vapor balance system other than that described in Table 1 to this subpart must demonstrate to the Administrator or delegated authority under paragraph § 63.11131(a) of this subpart, the equivalency of their vapor balance system to that described in Table 1 to this subpart using the procedures specified in paragraphs (b)(1) through (3) of this section.

(1) You must demonstrate initial compliance by conducting an initial performance test on the vapor balance system to demonstrate that the vapor balance system achieves 95 percent reduction using the California Air Resources Board Vapor Recovery Test Procedure TP-201.1,—Volumetric Efficiency for Phase I Vapor Recovery Systems, adopted April 12, 1996, and amended February 1, 2001, and October 8, 2003, (incorporated by reference, see § 63.14).

(2) You must, during the initial performance test required under paragraph (b)(1) of this section, determine and document alternative acceptable values for the leak rate and cracking pressure requirements specified in item 1(g) of Table 1 to this subpart and for the static pressure performance requirement in item 1(h) of Table 1 to this subpart.

(3) You must comply with the testing requirements specified in paragraph (a) of this section.

(c) Conduct of performance tests. Performance tests conducted for this subpart shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance (*i.e.,* performance based on normal operating conditions) of the affected source. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

(d) Owners and operators of gasoline cargo tanks subject to the provisions of Table 2 to this subpart must conduct annual certification testing according to the vapor tightness testing requirements found in § 63.11092(f).

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4182, Jan. 24, 2011]

Notifications, Records, and Reports

§63.11124 What notifications must I submit and when?

(a) Each owner or operator subject to the control requirements in §63.11117 must comply with paragraphs (a)(1) through (3) of this section.

(1) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or no later than 120 days after the source becomes subject to this subpart, whichever is later, or at the time you become subject to the control requirements in §63.11117, unless you meet the requirements in paragraph (a)(3) of this section. If your affected source is subject to the control requirements in §63.11117 only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, you must submit the Initial Notification by May 24, 2011, or no later than 120 days after the source becomes subject to this subpart, whichever is later. The Initial Notification must contain the information specified in paragraphs (a)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional office and delegated state authority as specified in §63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of §63.11117 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in §63.13, within 60 days of the applicable compliance date specified in §63.11113, unless you meet the requirements in paragraph (a)(3) of this section. The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of this subpart, and must indicate whether the facilities' monthly throughput is calculated based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (a)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (a)(1) of this section.

(3) If, prior to January 10, 2008, you are operating in compliance with an enforceable State, local, or tribal rule or permit that requires submerged fill as specified in §63.11117(b), you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (a)(1) or paragraph (a)(2) of this section.

(b) Each owner or operator subject to the control requirements in §63.11118 must comply with paragraphs (b)(1) through (5) of this section.

(1) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or no later than 120 days after the source becomes subject to this subpart, whichever is later, or at the time you become subject to the control requirements in §63.11118. If your affected source is subject to the control requirements in §63.11118 only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, you must submit the Initial Notification by May 24, 2011, or no later than 120 days after the source becomes subject to this subpart, whichever is later. The Initial Notification must contain the information specified in paragraphs (b)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional office and delegated state authority as specified in §63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of §63.11118 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in §63.13, in accordance with the schedule specified in §63.9(h). The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of this subpart, and must indicate whether the facility's throughput is determined based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (b)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (b)(1) of this section.

(3) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(3)(i) and (ii) of this section, you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (b)(1) or paragraph (b)(2) of this subsection.

(i) You operate a vapor balance system at your gasoline dispensing facility that meets the requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(4) You must submit a Notification of Performance Test, as specified in §63.9(e), prior to initiating testing required by §63.11120(a) and (b).

(5) You must submit additional notifications specified in §63.9, as applicable.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008; 76 FR 4182, Jan. 24, 2011; 85 FR 73919, Nov. 19, 2020]

§ 63.11125 What are my recordkeeping requirements?

(a) Each owner or operator subject to the management practices in § 63.11118 must keep records of all tests performed under § 63.11120(a) and (b).

(b) Records required under paragraph (a) of this section shall be kept for a period of 5 years and shall be made available for inspection by the Administrator's delegated representatives during the course of a site visit.

(c) Each owner or operator of a gasoline cargo tank subject to the management practices in Table 2 to this subpart must keep records documenting vapor tightness testing for a period of 5 years. Documentation must include each of the items specified in § 63.11094(b)(2)(i) through (viii). Records of vapor tightness testing must be retained as specified in either paragraph (c)(1) or paragraph (c)(2) of this section.

(1) The owner or operator must keep all vapor tightness testing records with the cargo tank.

(2) As an alternative to keeping all records with the cargo tank, the owner or operator may comply with the requirements of paragraphs (c)(2)(i) and (ii) of this section.

(i) The owner or operator may keep records of only the most recent vapor tightness test with the cargo tank, and keep records for the previous 4 years at their office or another central location.

(ii) Vapor tightness testing records that are kept at a location other than with the cargo tank must be instantly available (*e.g.,* via e-mail or facsimile) to the Administrator's delegated representative during the course of a site visit

or within a mutually agreeable time frame. Such records must be an exact duplicate image of the original paper copy record with certifying signatures.

(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

(1) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.

(2) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4183, Jan. 24, 2011]

§ 63.11126 What are my reporting requirements?

(a) Each owner or operator subject to the management practices in § 63.11118 shall report to the Administrator the results of all volumetric efficiency tests required under § 63.11120(b). Reports submitted under this paragraph must be submitted within 180 days of the completion of the performance testing.

(b) Each owner or operator of an affected source under this subpart shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with § 63.11115(a), including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

[76 FR 4183, Jan. 24, 2011]

Other Requirements and Information

§ 63.11130 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions apply to you.

§ 63.11131 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as the applicable State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (3) of this section.

(1) Approval of alternatives to the requirements in §§ 63.11116 through 63.11118 and 63.11120.

(2) Approval of major alternatives to test methods under § 63.7(e)(2)(ii) and (f), as defined in § 63.90, and as required in this subpart.

(3) Approval of major alternatives to recordkeeping and reporting under § 63.10(f), as defined in § 63.90, and as required in this subpart.

§ 63.11132 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act (CAA), or in subparts A and BBBBBB of this part. For purposes of this subpart, definitions in this section supersede definitions in other parts or subparts.

Dual-point vapor balance system means a type of vapor balance system in which the storage tank is equipped with an entry port for a gasoline fill pipe and a separate exit port for a vapor connection.

Gasoline means any petroleum distillate or petroleum distillate/alcohol blend having a Reid vapor pressure of 27.6 kilopascals or greater, which is used as a fuel for internal combustion engines.

Gasoline cargo tank means a delivery tank truck or railcar which is loading or unloading gasoline, or which has loaded or unloaded gasoline on the immediately previous load.

Gasoline dispensing facility (GDF) means any stationary facility which dispenses gasoline into the fuel tank of a motor vehicle, motor vehicle engine, nonroad vehicle, or nonroad engine, including a nonroad vehicle or nonroad engine used solely for competition. These facilities include, but are not limited to, facilities that dispense gasoline into on- and off-road, street, or highway motor vehicles, lawn equipment, boats, test engines, landscaping equipment, generators, pumps, and other gasoline-fueled engines and equipment.

Monthly throughput means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

Motor vehicle means any self-propelled vehicle designed for transporting persons or property on a street or highway.

Nonroad engine means an internal combustion engine (including the fuel system) that is not used in a motor vehicle or a vehicle used solely for competition, or that is not subject to standards promulgated under section 7411 of this title or section 7521 of this title.

Nonroad vehicle means a vehicle that is powered by a nonroad engine, and that is not a motor vehicle or a vehicle used solely for competition.

Submerged filling means, for the purposes of this subpart, the filling of a gasoline storage tank through a submerged fill pipe whose discharge is no more than the applicable distance specified in § 63.11117(b) from the bottom of the tank. Bottom filling of gasoline storage tanks is included in this definition.

Vapor balance system means a combination of pipes and hoses that create a closed system between the vapor spaces of an unloading gasoline cargo tank and a receiving storage tank such that vapors displaced from the storage tank are transferred to the gasoline cargo tank being unloaded.

Vapor-tight means equipment that allows no loss of vapors. Compliance with vapor-tight requirements can be determined by checking to ensure that the concentration at a potential leak source is not equal to or greater than 100 percent of the Lower Explosive Limit when measured with a combustible gas detector, calibrated with propane, at a distance of 1 inch from the source.

Vapor-tight gasoline cargo tank means a gasoline cargo tank which has demonstrated within the 12 preceding months that it meets the annual certification test requirements in § 63.11092(f) of this part.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4183, Jan. 24, 2011]

Table 1 to Subpart CCCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More[1]

If you own or operate	Then you must
1. A new, reconstructed, or existing GDF subject to §63.11118	Install and operate a vapor balance system on your gasoline storage tanks that meets the design criteria in paragraphs (a) through (h).
	(a) All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect.
	(b) The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight, as defined in §63.11132.
	(c) The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.
	(d) The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.
	(e) If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specified in §63.11117(b).
	(f) Liquid fill connections for all systems shall be equipped with vapor-tight caps.
	(g) Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.
	(h) The vapor balance system shall be capable of meeting the static pressure performance requirement of the following equation:
	$Pf = 2e^{-500.887/v}$
	Where:
	Pf = Minimum allowable final pressure, inches of water.
	v = Total ullage affected by the test, gallons.
	e = Dimensionless constant equal to approximately 2.718.
	2 = The initial pressure, inches water.
2. A new or reconstructed GDF, or any storage tank(s) constructed after November 9, 2006, at an existing affected facility subject to §63.11118	Equip your gasoline storage tanks with a dual-point vapor balance system, as defined in §63.11132, and comply with the requirements of item 1 in this Table.

[1]The management practices specified in this Table are not applicable if you are complying with the requirements in §63.11118(b)(2), except that if you are complying with the requirements in §63.11118(b)(2)(i)(B), you must operate using management practices at least as stringent as those listed in this Table.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008; 76 FR 4184, Jan. 24, 2011]

Table 2 to Subpart CCCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Cargo Tanks Unloading at Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More

If you own or operate	Then you must
A gasoline cargo tank	Not unload gasoline into a storage tank at a GDF subject to the control requirements in this subpart unless the following conditions are met:
	(i) All hoses in the vapor balance system are properly connected,
	(ii) The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect,
	(iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,
	(iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the GDF storage tank, and
	(v) All hatches on the tank truck are closed and securely fastened.
	(vi) The filling of storage tanks at GDF shall be limited to unloading from vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried with the cargo tank, as specified in §63.11125(c).

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4184, Jan. 24, 2011]

Table 3 to Subpart CCCCCC of Part 63—Applicability of General Provisions

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.1	Applicability	Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications	Yes, specific requirements given in §63.11111.
§63.1(c)(2)	Title V Permit	Requirements for obtaining a title V permit from the applicable permitting authority	Yes, §63.11111(f) of subpart CCCCCC exempts identified area sources from the obligation to obtain title V operating permits.
§63.2	Definitions	Definitions for part 63 standards	Yes, additional definitions in §63.11132.
§63.3	Units and Abbreviations	Units and abbreviations for part 63 standards	Yes.
§63.4	Prohibited Activities and Circumvention	Prohibited activities; Circumvention, severability	Yes.
§63.5	Construction/Reconstruction	Applicability; applications; approvals	Yes, except that these notifications are not required for facilities subject to §63.11116

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.6(a)	Compliance with Standards/Operation & Maintenance—Applicability	General Provisions apply unless compliance extension; General Provisions apply to area sources that become major	Yes.
§63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed Sources	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for CAA section 112(f)	Yes.
§63.6(b)(5)	Notification	Must notify if commenced construction or reconstruction after proposal	Yes.
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source	No.
§63.6(c)(1)-(2)	Compliance Dates for Existing Sources	Comply according to date in this subpart, which must be no later than 3 years after effective date; for CAA section 112(f) standards, comply within 90 days of effective date unless compliance extension	No, §63.11113 specifies the compliance dates.
§63.6(c)(3)-(4)	[Reserved]		
§63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Area sources That become major must comply with major source standards by date indicated in this subpart or by equivalent time period (e.g., 3 years)	No.
§63.6(d)	[Reserved]		
63.6(e)(1)(i)	General duty to minimize emissions	Operate to minimize emissions at all times; information Administrator will use to determine if operation and maintenance requirements were met.	No. *See* §63.11115 for general duty requirement.
63.6(e)(1)(ii)	Requirement to correct malfunctions ASAP	Owner or operator must correct malfunctions as soon as possible.	No.
§63.6(e)(2)	[Reserved]		
§63.6(e)(3)	Startup, Shutdown, and Malfunction (SSM) Plan	Requirement for SSM plan; content of SSM plan; actions during SSM	No.
§63.6(f)(1)	Compliance Except During SSM	You must comply with emission standards at all times except during SSM	No.
§63.6(f)(2)-(3)	Methods for Determining Compliance	Compliance based on performance test, operation and maintenance plans, records, inspection	Yes.
§63.6(g)(1)-(3)	Alternative Standard	Procedures for getting an alternative standard	Yes.
§63.6(h)(1)	Compliance with Opacity/Visible Emission (VE) Standards	You must comply with opacity/VE standards at all times except during SSM	No.

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.6(h)(2)(i)	Determining Compliance with Opacity/VE Standards	If standard does not State test method, use EPA Method 9 for opacity in appendix A of part 60 of this chapter and EPA Method 22 for VE in appendix A of part 60 of this chapter	No.
§63.6(h)(2)(ii)	[Reserved]		
§63.6(h)(2)(iii)	Using Previous Tests To Demonstrate Compliance With Opacity/VE Standards	Criteria for when previous opacity/VE testing can be used to show compliance with this subpart	No.
§63.6(h)(3)	[Reserved]		
§63.6(h)(4)	Notification of Opacity/VE Observation Date	Must notify Administrator of anticipated date of observation	No.
§63.6(h)(5)(i), (iii)-(v)	Conducting Opacity/VE Observations	Dates and schedule for conducting opacity/VE observations	No.
§63.6(h)(5)(ii)	Opacity Test Duration and Averaging Times	Must have at least 3 hours of observation with 30 6-minute averages	No.
§63.6(h)(6)	Records of Conditions During Opacity/VE Observations	Must keep records available and allow Administrator to inspect	No.
§63.6(h)(7)(i)	Report Continuous Opacity Monitoring System (COMS) Monitoring Data From Performance Test	Must submit COMS data with other performance test data	No.
§63.6(h)(7)(ii)	Using COMS Instead of EPA Method 9	Can submit COMS data instead of EPA Method 9 results even if rule requires EPA Method 9 in appendix A of part 60 of this chapter, but must notify Administrator before performance test	No.
§63.6(h)(7)(iii)	Averaging Time for COMS During Performance Test	To determine compliance, must reduce COMS data to 6-minute averages	No.
§63.6(h)(7)(iv)	COMS Requirements	Owner/operator must demonstrate that COMS performance evaluations are conducted according to §63.8(e); COMS are properly maintained and operated according to §63.8(c) and data quality as §63.8(d)	No.
§63.6(h)(7)(v)	Determining Compliance with Opacity/VE Standards	COMS is probable but not conclusive evidence of compliance with opacity standard, even if EPA Method 9 observation shows otherwise. Requirements for COMS to be probable evidence-proper maintenance, meeting Performance Specification 1 in appendix B of part 60 of this chapter, and data have not been altered	No.
§63.6(h)(8)	Determining Compliance with Opacity/VE Standards	Administrator will use all COMS, EPA Method 9 (in appendix A of part 60 of this chapter), and EPA Method 22 (in appendix A of part 60 of this chapter) results, as well as information about operation and maintenance to determine compliance	No.

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.6(h)(9)	Adjusted Opacity Standard	Procedures for Administrator to adjust an opacity standard	No.
§63.6(i)(1)-(14)	Compliance Extension	Procedures and criteria for Administrator to grant compliance extension	Yes.
§63.6(j)	Presidential Compliance Exemption	President may exempt any source from requirement to comply with this subpart	Yes.
§63.7(a)(2)	Performance Test Dates	Dates for conducting initial performance testing; must conduct 180 days after compliance date	Yes.
§63.7(a)(3)	CAA Section 114 Authority	Administrator may require a performance test under CAA section 114 at any time	Yes.
§63.7(b)(1)	Notification of Performance Test	Must notify Administrator 60 days before the test	Yes.
§63.7(b)(2)	Notification of Re-scheduling	If have to reschedule performance test, must notify Administrator of rescheduled date as soon as practicable and without delay	Yes.
§63.7(c)	Quality Assurance (QA)/Test Plan	Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing	Yes.
§63.7(d)	Testing Facilities	Requirements for testing facilities	Yes.
63.7(e)(1)	Conditions for Conducting Performance Tests	Performance test must be conducted under representative conditions	No, §63.11120(c) specifies conditions for conducting performance tests.
§63.7(e)(2)	Conditions for Conducting Performance Tests	Must conduct according to this subpart and EPA test methods unless Administrator approves alternative	Yes.
§63.7(e)(3)	Test Run Duration	Must have three test runs of at least 1 hour each; compliance is based on arithmetic mean of three runs; conditions when data from an additional test run can be used	Yes.
§63.7(f)	Alternative Test Method	Procedures by which Administrator can grant approval to use an intermediate or major change, or alternative to a test method	Yes.
§63.7(g)	Performance Test Data Analysis	Must include raw data in performance test report; must submit performance test data 60 days after end of test with the Notification of Compliance Status; keep data for 5 years	Yes.
§63.7(h)	Waiver of Tests	Procedures for Administrator to waive performance test	Yes.
§63.8(a)(1)	Applicability of Monitoring Requirements	Subject to all monitoring requirements in standard	Yes.
§63.8(a)(2)	Performance Specifications	Performance Specifications in appendix B of 40 CFR part 60 apply	Yes.

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring of Flares	Monitoring requirements for flares in §63.11 apply	Yes.
§63.8(b)(1)	Monitoring	Must conduct monitoring according to standard unless Administrator approves alternative	Yes.
§63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Specific requirements for installing monitoring systems; must install on each affected source or after combined with another affected source before it is released to the atmosphere provided the monitoring is sufficient to demonstrate compliance with the standard; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup	No.
§63.8(c)(1)	Monitoring System Operation and Maintenance	Maintain monitoring system in a manner consistent with good air pollution control practices	No.
§63.8(c)(1)(i)-(iii)	Operation and Maintenance of Continuous Monitoring Systems (CMS)	Must maintain and operate each CMS as specified in §63.6(e)(1); must keep parts for routine repairs readily available; must develop a written SSM plan for CMS, as specified in §63.6(e)(3)	No.
§63.8(c)(2)-(8)	CMS Requirements	Must install to get representative emission or parameter measurements; must verify operational status before or at performance test	No.
§63.8(d)	CMS Quality Control	Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years; keep old versions for 5 years after revisions	No.
§63.8(e)	CMS Performance Evaluation	Notification, performance evaluation test plan, reports	No.
§63.8(f)(1)-(5)	Alternative Monitoring Method	Procedures for Administrator to approve alternative monitoring	No.
§63.8(f)(6)	Alternative to Relative Accuracy Test	Procedures for Administrator to approve alternative relative accuracy tests for continuous emissions monitoring system (CEMS)	No.
§63.8(g)	Data Reduction	COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that cannot be used in average	No.
§63.9(a)	Notification Requirements	Applicability and State delegation	Yes.

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.9(b)(1)-(2), (4)-(5)	Initial Notifications	Submit notification within 120 days after effective date, or no later than 120 days after the source becomes subject to this subpart, whichever is later; notification of intent to construct/reconstruct, notification of commencement of construction/reconstruction, notification of startup; contents of each	Yes.
§63.9(c)	Request for Compliance Extension	Can request if cannot comply by date or if installed best available control technology or lowest achievable emission rate	Yes.
§63.9(d)	Notification of Special Compliance Requirements for New Sources	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date	Yes.
§63.9(e)	Notification of Performance Test	Notify Administrator 60 days prior	Yes.
§63.9(f)	Notification of VE/Opacity Test	Notify Administrator 30 days prior	No.
§63.9(g)	Additional Notifications when Using CMS	Notification of performance evaluation; notification about use of COMS data; notification that exceeded criterion for relative accuracy alternative	Yes, however, there are no opacity standards.
§63.9(h)(1)-(6)	Notification of Compliance Status	Contents due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority	Yes, however, there are no opacity standards.
§63.9(i)	Adjustment of Submittal Deadlines	Procedures for Administrator to approve change when notifications must be submitted	Yes.
§63.9(j)	Change in Previous Information	Must submit within 15 days after the change	Yes.
§63.9(k)	Notifications	Electronic reporting procedures	Yes, only as specified in §63.9(j).
§63.10(a)	Recordkeeping/Reporting	Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source	Yes.
§63.10(b)(1)	Recordkeeping/Reporting	General requirements; keep all records readily available; keep for 5 years	Yes.
§63.10(b)(2)(i)	Records related to SSM	Recordkeeping of occurrence and duration of startups and shutdowns	No.
§63.10(b)(2)(ii)	Records related to SSM	Recordkeeping of malfunctions	No. *See* §63.11125(d) for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunction.

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.10(b)(2)(iii)	Maintenance records	Recordkeeping of maintenance on air pollution control and monitoring equipment	Yes.
§63.10(b)(2)(iv)	Records Related to SSM	Actions taken to minimize emissions during SSM	No.
§63.10(b)(2)(v)	Records Related to SSM	Actions taken to minimize emissions during SSM	No.
§63.10(b)(2)(vi)-(xi)	CMS Records	Malfunctions, inoperative, out-of-control periods	No.
§63.10(b)(2)(xii)	Records	Records when under waiver	Yes.
§63.10(b)(2)(xiii)	Records	Records when using alternative to relative accuracy test	Yes.
§63.10(b)(2)(xiv)	Records	All documentation supporting Initial Notification and Notification of Compliance Status	Yes.
§63.10(b)(3)	Records	Applicability determinations	Yes.
§63.10(c)	Records	Additional records for CMS	No.
§63.10(d)(1)	General Reporting Requirements	Requirement to report	Yes.
§63.10(d)(2)	Report of Performance Test Results	When to submit to Federal or State authority	Yes.
§63.10(d)(3)	Reporting Opacity or VE Observations	What to report and when	No.
§63.10(d)(4)	Progress Reports	Must submit progress reports on schedule if under compliance extension	Yes.
§63.10(d)(5)	SSM Reports	Contents and submission	No. *See* §63.11126(b) for malfunction reporting requirements.
§63.10(e)(1)-(2)	Additional CMS Reports	Must report results for each CEMS on a unit; written copy of CMS performance evaluation; two-three copies of COMS performance evaluation	No.
§63.10(e)(3)(i)-(iii)	Reports	Schedule for reporting excess emissions	No.
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§63.8(c)(7)-(8) and 63.10(c)(5)-(13)	No.

Citation	Subject	Brief description	Applies to subpart CCCCCC
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§63.8(c)(7)-(8) and 63.10(c)(5)-(13)	No, §63.11130(K) specifies excess emission events for this subpart.
§63.10(e)(3)(vi)-(viii)	Excess Emissions Report and Summary Report	Requirements for reporting excess emissions for CMS; requires all of the information in §§63.10(c)(5)-(13) and 63.8(c)(7)-(8)	No.
§63.10(e)(4)	Reporting COMS Data	Must submit COMS data with performance test data	No.
§63.10(f)	Waiver for Recordkeeping/Reporting	Procedures for Administrator to waive	Yes.
§63.11(b)	Flares	Requirements for flares	No.
§63.12	Delegation	State authority to enforce standards	Yes.
§63.13	Addresses	Addresses where reports, notifications, and requests are sent	Yes.
§63.14	Incorporations by Reference	Test methods incorporated by reference	Yes.
§63.15	Availability of Information	Public and confidential information	Yes.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4184, Jan. 24, 2011; 85 FR 73919, Nov. 19, 2020]

Potential to Emit Calculations w/ CTAP

Appendix A: Emissions Calculations
Emissions Summary
Pallet & Mulch Operations

Company Name: Cook Lumber
Source Address: Reelsville, IN
Permit Number:
Reviewer:

Unlimited Potential to Emit

Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs	Largest Single HAP	
Sawdust Handling	1.15	1.15	1.15	-	-	-	-	-	-	-
Wet Sawdust Fired Boilers for heating kilns	3.25	2.86	2.46	0.25	2.17	0.17	5.91	0.35	0.187	HCl
Pallet Drying Kilns	0.11	0.05	0.05	-	-	0.11	0.01	0.08	0.041	Formaldehyde
Heat Treating	0.00	0.00	0.00	0.00	0.05	0.03	0.00	-	-	-
Pallet Production Shop (woodworking)	12.40	7.14	7.14	-	-	-	-	-	-	-
Propane Tank	-	-	-	-	-	0.01	-	-	-	-
Total Non-Fugitive Emissions	**16.91**	**11.20**	**10.81**	**0.25**	**2.22**	**0.31**	**5.93**	**0.43**	**0.19**	**HCl**
Fuel Dispensing	-	-	-	-	-	0.03	-	8.64E-03	2.98E-03	Xylenes
Paved Roads	0.15	0.03	0.01	-	-	-	-	-	-	-
Unpaved Roads	0.29	0.08	0.01	-	-	-	-	-	-	-
Total Fugitive Emissions	**0.43**	**0.11**	**0.01**	-	-	**0.03**	-	**8.64E-03**	**2.98E-03**	-
Total Emissions	**17.35**	**11.31**	**10.82**	**0.25**	**2.22**	**0.35**	**5.93**	**0.44**	**0.19**	**HCl**

Potential to Emit (After Integral Controls)

Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs		Largest Single HAP
Sawdust Handling	1.15	1.15	1.15	-	-	-	-	-	-	-
Wood Fired Boilers	3.25	2.86	2.46	0.25	2.17	0.17	5.91	0.35	0.187	HCl
Board Kiln	0.11	0.05	0.05	-	-	0.11	0.01	0.08	0.041	Formaldehyde
Heat Treating	0.00	0.00	0.00	0.00	0.05	0.03	0.00	-	-	-
Pallet Production Shop (Woodworking)	1.36	0.83	0.83	-	-	-	-	-	-	-
Propane Tank	-	-	-	-	-	0.00	-	-	-	-
Total Non-Fugitive Emissions	**5.88**	**4.89**	**4.50**	**0.25**	**2.22**	**0.30**	**5.93**	**0.43**	**0.19**	**HCL**
Fuel Dispensing	-	-	-	-	-	0.03	-	8.64E-03	2.98E-03	Xylenes
Paved Roads	0.15	0.03	0.01	-	-	-	-	-	-	-
Unpaved Roads	0.29	0.08	0.01	-	-	-	-	-	-	-
Total Fugitive Emissions	**0.43**	**0.11**	**0.01**	-	-	**0.03**	-	**8.64E-03**	**2.98E-03**	**Xylenes**
Total Emissions	**6.31**	**5.00**	**4.51**	**0.25**	**2.22**	**0.34**	**5.93**	**0.44**	**0.19**	**HCl**

Exemption Thresholds	*< 5*	*< 5*	*< 5*	*< 10*	*< 10*	*< 10*	*< 25*	*< 0.2*
Registration Thresholds	*≥ 5 and < 25*	*≥ 5 and < 25*	*≥ 5 and < 25*	*≥ 10 and < 25*	*≥ 10 and < 25*	*≥ 10 and < 25*	*≥ 25 and < 100*	*≥ 0.2 < 5*
MSOP Thresholds	*≥ 25 and NA*	*≥ 25 and < 100*	*≥ 25 and < 100*	*≥ 25 and < 100*	*≥ 25 and < 100*	*≥ 25 and < 100*	*≥ 100 tpy*	*≥ 5 and < 10*
Title V Thresholds	*NA*	*> 100*	*> 100*	*> 100*	*> 100*	*> 100*	*> 100*	*≥ 10*

In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, the potential to emit particulate matter from the woodworking operations was calculated after control for purposes of determining permitting level and applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), 326 IAC 6.5 (Particulate Matter Limitations Except Lake County), and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

Appendix A: Emissions Calculations
Emissions Summary
Sawdust Handling

Company Name: **Cook Lumber**
Source Address: **Reelsville, IN**
Permit Number:
Reviewer:

Emission Factors (lb/ton)

PM	PM10	PM2.5
0.35	0.35	0.35

Emissions	Throughput (tons/hr)	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	PM (lbs/hr)
Sawdust Unloading	0.75	1.15	1.15	1.15	0.26
	Total PTE	**1.15**	**1.15**	**1.15**	**0.26**

METHODOLOGY
*Sawdust handling particulate emissions are estimated using emission factor (lb/ton) from AP-42, Fourth Edition 1985, Chapter 10.3, Table 10.3-1 (log sawing)
Uncontrolled emissions (tons/year) = Maximum Capacity (tons/hour) x Emission Factor (lb/ton) x 8760 (hours/year) x 1 ton/2000 pounds

Appendix A: Emissions Calculations
Wood Fired Boiler for Hot Water

Company Name: Cook Lumber
Source Address:
Permit Number:
Reviewer:

Boilers Rated Heat Input Capacity (MMBtu/hr)		Serial Number	Stack Identification	Cyclone Control	Oxygen Sensor	Year Installed
Boiler 001	0.750		BS001	Cyclone 001	N/A	2012
Boiler 002	0.750		BS001	Cyclone 001	N/A	2012
Boiler 003	0.750		BS002	Cyclone 002	N/A	2017
Maximum Heat Input Capacity (MMBtu/hr)	2.250					

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.33	0.29	0.25	0.025	0.22	0.017	0.60
					**see below		
Potential Emission in tons/yr	**3.25**	**2.86**	**2.46**	**0.25**	**2.17**	**0.17**	**5.91**

Methodology
Note: No bark is burned in the boiler

Actual Capacity = 18,702 lbs scrap per day = 18,702 lb / day x (1 day / 24 hrs) x (1 ton / 2000 lbs)

[1]The factors are based on wet, as-fired wood waste with an average moisture content of 50% and an average heating value of 4,500 Btu/lb, (AP-42 Chapter 1.6, General 1.6.1)
[2]To convert from tons/hr capacity to MMBtu/hr capacity:
[2]Heat Input Capacity (MMBtu/hr) = Capacity (tons/hr) x Heating Value of wood fuel (Btu/lb) x (1 MMBtu/10^6 Btu/) x 2000 lbs/1 ton
***AP-42 emission factors are found in Chapter 1.6, tables 1.6-1, 1.6-2 and 1.6-3 for wood-fired boilers, 02 for Wet Wood without control for Table 1.6-1, bark / bark and wet wood/wet wood-fired boiler for Table 1.6-2 and wet wood-fired boilers, wood residue combustion for Table 1.6-3 (VOC)**
**** Emission Factor from AP-42 Chapter 1, Table 1.6.3, (lb/MMBtu)**

Wood Boiler HAPs

	HAPs - Organics							
	Acetaldehyde	Acrolein	Benzene	Formaldehyde	HCL	Styrene	Toluene	**Total - Organics**
Emission Factor in lb/MMBtu	8.30E-04	4.0E-03	4.2E-03	4.4E-03	1.9E-02	1.9E-03	9.20E-04	
Potential Emission in tons/yr	**0.01**	**0.04**	**0.04**	**0.04**	**0.19**	**0.02**	**0.01**	**0.33**

	HAPs - Metals						
	Lead	Mercury	Arsenic	Manganese	Nickel		**Total - Metals**
Emission Factor in lb/MMcf	4.8E-05	3.5E-06	2.2E-05	1.6E-03	3.3E-05		
Potential Emission in tons/yr	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**		**0.02**
						Total HAPs	**0.35**
						Worst HAP	**0.19** HCL

Methodology is the same as above.
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.6 Table 1.6-3
Emissions (tons/yr) = Converted Capacity (MMBtu/hr) x Emission Factor (lb/MMBtu) x 8760hrs/yr x 1ton/2000lbs

Appendix A: Emissions Calculations
VOC and Particulate
From Drying Kilns

Company Name: **Cook Lumber**
Source Address:
Permit Number:
Reviewer:

Three (3) Drying Kilns, using one (1) wood-fired burner

Kiln No.	Install Date	BdFt/hr	Batches/yr	PM	PM10/2.5	VOC	CO	Single HAP	Total HAPs
Kilns	1983	75	8760	0.11498	0.0509175	0.10578	0.009198	0.040734	0.082062585

	Pollutant					
	PM*	PM10/2.5	VOC	CO	Single HAP	Total HAPs
Emission Factor in lb/MMBdFt	350.00	155.000	322.00	28.000	124.00	249.810

Methodology

Potential emissions (tons/year) = Throughput (BdFt/batch) * Batch/yr * Emission Factor (lb/BdFt of hardwood) * 1 ton/2000 lbs

VOC/HAP emission factors are from SWCAA Dry Kiln Default Test Data for Maple. Maple represents the worst case hardwood dried.

Emission factor units are pounds of pollutant per million board feet of maple (lb/MMBdFt)

PM, including filterable PM and condensible PM emission factor are from AP-42, Table 10.5-1.

CO emission factor is from AP-42, Table 10.5-2.

Appendix A: Emissions Calculations
Back-Up Propane Kiln Combustion Only

Company Name: Cook Lumber
Source Address:
Permit Number:
Reviewer:

2-40,000 Btu/hr propane

	Heat Input Capacity MMBtu/hr	Potential Throughput kgal/yr
Propane Kiln 001	0.08	7.7
		0.0
Total =		7.7 kgal/yr

	Pollutant									
	PM*	PM_{10}*	$PM_{2.5}$*	SO_2	NO_x	CO	VOC	CO_2	CH_4	N_2O
Emission Factor in lb/kgal	0.2	0.7	0.7	0.020	13.0	7.5	1.0	12500	2	0.9
Potential Emission in tons/yr	**0.00**	**0.00**	**0.00**	**0.00**	**0.05**	**0.03**	**0.00**	**47.87**	**0.01**	**0.00**

*PM emission factor is filterable PM only. $PM_{10} = PM_{2.5}$

Methodology
All emission factors are based on Propane firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-03-010-02)
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x (1 kgal / 1000 gallon) x (1 gal / 0.0915 MMBtu)
PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emission Calculations
Pallet Shop Wood Production Operations

Company Name: Cook Lumber
Source Address:
Permit Number:
Reviewer:

Process	Identification Number	Pieces of Equipment	Maximum Process Weight (tons/hr)	PM Emission Factor* (lbs/ton)	PM_{10} Emission Factor* (lbs/ton)	$PM_{2.5}$ Emission Factor* (lbs/ton)	PTE PM (lbs/hr)	PTE PM (tons/yr)	PTE PM_{10} (tons/yr)	PTE $PM_{2.5}$ (tons/yr)	Controlled PTE PM (tons/yr)	Controlled PTE PM_{10} (tons/yr)	Controlled PTE $PM_{2.5}$ (tons/yr)
Radial Saw #1	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #2	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #3	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #4	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #5	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #6	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #7	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Radial Saw #8	1	1	1.00	0.350	0.200	0.200	0.350	1.533	0.876	0.876	0.153	0.088	0.088
Sweeping Sawdust (No Controls)			0.03	1.000	1.000	1.000	0.030	0.131	0.131	0.131	0.131	0.131	0.131
						Plant Total		**12.40**	**7.14**	**7.14**	**1.36**	**0.83**	**0.83**

Methodology
Emissions = Throughput (ton/hr) * Emissions Factor (lbs/ton) * 8,760 (hr/yr) / 2000 lbs/ton
*Assume that PM2.5 is equal to PM10
Notes
[1] Two pneumatic hand grinders are used to debark the logs at the planning operation. Chips are sent to cyclone

[2] Pallet radial arm saw uses bag dust collection. 95% efficiency

*Emission factors obtained from AP-42 (1995) Table 10.3-1, 10.3-2, and 10.4-1. Note that these emission factors are for dry wood rather than wet wood. The wood at this source has a moisture content of 60%.

**The cyclone is used as a integral product collection device. The product collected by the cyclone is large wet chips of knuckle size or larger (~1000 um). As a worst case scenario, uncontrolled emissions from the cyclone are calculated assuming the same emission factor as log sawing

***The silo load operation uses a front end loader to collect wood chips from the silo hopper. Note that the emission factor for silo load out is for sawdust rather than wet wood chips. An emission factor for wet wood chips was not available.

In October 1993 a Final Order Granting Summary Judgement was signed by Administrative Law Judge ("ALJ") Garretson resolving an appeal filed by Kimball Hospitality Furniture (Cause Nos. 92-A-J-730 and 92-A-J-533) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls were necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, potential emissions for particulate matter from the woodworking operations were calculated after consideration of the controls for purposes of determining permit level, 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), and Prevention of Significant Deterioration (PSD) applicability.

Appendix A: Emissions Calculations
Propane Tank Loading Emissions

Company Name: **Cook Lumber**
Source Address:
Permit Number:
Reviewer:

Maximum Capacity of Tanks, Gallons	2,000	gallons		
Number of Trucks Unloading Propane	24	trucks / year		Each truck quantity equals 9,000 gal/truck
Hose Length	20	feet		
Hose Diameter	3	inches		
Volume of Hose	7.85	cu.ft.		
Propane Conversion	1.00	lb. of propane =	8.59	= cu.ft. of propane gas
Pounds per hose	0.91			

Assume entire hose is emitted

VOC emitted per year	21.94	lbs/yr
	0.011	tons/yr

Appendix A: Emissions Calculations
Diesel and Gasoline Fuel Dispensing Operation
Appendix A: Emission Calculations

Company Name: Cook Lumber
Source Address:
Permit Number:
Permit Writer:

Usage is based on filling one (1) 300-gallon tank per month. The total potential emission of VOC is as follows:

Emission Source	Daily Throughput (gals.)	Annual Throughput (gals.)	Annual Throughput (kgals)	Emission Factor (lb/kgal)*	VOC PTE (TPY)	Notes
Filling Storage Tank (splash filling)	8	2738	3	11.50	1.57E-02	AP-42 Chapter 5 Table 5.2.7
Tank breathing and emptying				1.00	1.37E-03	
Vehicle refueling (displaced losses - uncontrolled)				11.00	1.51E-02	
Spillage Loss				0.70	9.58E-04	
				Totals	**0.03**	**tons / year**

The potential to emit (PTE) hazardous air pollutants (HAPs) were estimated using published gasoline data and assuming that the HAP % composition of the gasoline vapor is similar to the HAP % composition in liquid gasoline

Hazardous Air Pollutions (HAPs)

Volatile Organic HAP	CAS #	HAP Content for Gasoline (% by weight)**	PTE of HAP (tons/yr)	
1,3-Butadiene	106-99-0	3.70E-05	1.23E-06	
2,2,4-Trimethylpentane	540-84-1	2.40%	7.95E-04	
Benzene	71-43-2	1.90%	6.29E-04	
Ethylbenzene	100-41-4	1.70%	5.63E-04	
Methyl-tert-butylether	1634-04-4	0.33%	1.09E-04	
Naphthalene	91-20-3	0.25%	8.28E-05	
n-Hexane	110-54-3	2.40%	7.95E-04	
Toluene	108-88-3	8.10%	2.68E-03	
Total Xylenes	1330-20-7	9.00%	2.98E-03	
		Total PTE of HAPs (tons/yr)	**8.64E-03**	
		PTE of Worst Single HAP (tons/yr)	**2.98E-03**	**(Xylenes)**

Methodology
*Emission Factors from AP-42 Chapter 5.2 Transportation And Marketing Of Petroleum Liquids (dated 6/08), Table 5.2-7

**Source: Petroleum Liquids. Potter, T.L. and K.E. Simmons. 1998. Total Petroleum Hydrocarbon Criteria Working Group Series, Volume 2. Composition of Petroleum Mixtures. The Association for Environmental Health and Science. Available on the Internet at: http://www.aehsfoundation.org/Publications.aspx

The gasoline throughput was provided by the source.
Gasoline Throughput (kgal/yr) = [Gasoline Throughput (gallons/day)] * [365 days/yr] * [kgal/1000 gal]
PTE of VOC (tons/yr) = [Gasoline Throughput (kgal/yr)] * [Emission Factor (lb/kgal)] * [ton/2000 lb]
PTE of HAP (tons/yr) = [HAP Content of Gasoline (% by weight)] * [PTE of VOC (tons/yr)]

Abbreviations
VOC = Volatile Organic Compounds HAP = Hazardous Air Pollutant
PTE = Potential to Emit

To calculate evaporative emissions from the diesel dispensing fuel transfer and dispensing operation handling emission factors from were used. The total potential emission of VOC is as follows:

Diesel Throughput

500	Gallon capacity of AST
200	Gallons / week consumption
10,400	Annual Throughput, gallons
10.4	Annual Throughput, kgals

Loading Losses: $LL = 12.46*(SPM/T)$

S = Saturation Factor (Table 5.2.1, AP-42)
P = True Vapor Pressure of liquid loaded (psia)
M = Molecular weight of vapors (lb/lb-mole)
T = Temperature, °R (°F + 460)
LL = Loading Loss Emission Factor (lb/kgal)

For diesel fuel:

S =	1.45
P =	0.009
M =	130
T =	530
LL =	0.040 lb/kgal

Uncontrolled Emissions: 0.415 lbs / year; 0.000 tons / year

Vehicle Refueling: Uncontrolled Displacement Losses

$E = 11.0 (F)$
E = Uncontrolled emissions (lb/year0
F = Throughput (kgal)

For diesel fuel

F =	10	kgal
E =	114	lb/year
	0.06	tons/year

Diesel Fuel Summary

Loading Emissions	0.000	
Refueling Emissions	0.06	
	0.06	**Total Diesel VOC Emissions (tons/year)**

Abbreviations
VOC = Volatile Organic Compounds
PTE = Potential to Emit

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: Cook Lumber
Source Address:
Permit Number:
Reviewer:

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 of Loaded Vehicle (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)
Vehicle (entering plant) (one-way trip)	1.0	1.0	1.0	2.0	2.0	750	0.142	0.1	51.8
Vehicle (leaving plant) (one-way trip)	1.0	1.0	1.0	2.0	2.0	750	0.142	0.1	51.8
Lumber Trucks (leaving plant) (one-way trip)	2.0	1.0	2.0	20.0	40.0	750	0.142	0.3	103.7
Lumber Trucks (entering plant) (one-way trip)	2.0	1.0	2.0	30.0	60.0	750	0.142	0.3	103.7
Fork Lifts (leaving plant) (one-way trip)	11.0	1.0	11.0	0.3	2.8	400	0.076	0.8	304.2
Fork Lifts (entering plant) (one-way trip)	11.0	1.0	11.0	0.3	2.8	400	0.076	0.8	304.2
Large Fork Trucks (leaving plant) (one-way trip)	2.0	1.0	2.0	0.5	1.0	300	0.057	0.1	41.5
Large Fork Trucks (entering plant) (one-way trip)	2.0	1.0	2.0	0.5	1.0	300	0.057	0.1	41.5
		Totals	**28.0**		**109.5**			**2.52**	**919.4**

Average Vehicle Weight Per Trip = 3.9 tons/trip
Average Miles Per Trip = 0.09 miles/trip

Unmitigated Emission Factor, Ef = [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 =	3.9	3.9	3.9	tons = average vehicle weight
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, Eext = E * [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)
Mitigated Emission Factor, Eext = Ef * [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, Ef =	0.350	0.070	0.0172	lb/mile
Mitigated Emission Factor, Eext =	0.320	0.064	0.0157	lb/mile

Process	Mitigated	Mitigated	Mitigated
Vehicle (entering plant) (one-way trip)	0.01	0.00	0.000
Vehicle (leaving plant) (one-way trip)	0.01	0.00	0.000
Lumber Trucks (leaving plant) (one-way trip)	0.02	0.003	0.001
Lumber Trucks (entering plant) (one-way trip)	0.02	0.003	0.001
Fork Lifts (leaving plant) (one-way trip)	0.05	0.010	0.002
Fork Lifts (entering plant) (one-way trip)	0.05	0.010	0.002
Large Fork Trucks (leaving plant) (one-way trip)	0.01	0.001	0.000
Large Fork Trucks (entering plant) (one-way trip)	0.01	0.001	0.000
Totals	**0.15**	**0.03**	**0.007**

Methodology

Total Weight driven per day (ton/day)	= [Maximum Weight of Loaded Vehicle (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 (Before Control) (tons/yr)	= [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (After Control) (tons/yr)	= [Mitigated PTE (Before Control) (tons/yr)] * [1 - Dust Control Efficiency]

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

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: Cook Lumber
Source Address:
Permit Number:
Reviewer:

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	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)
Pick up trucks (entering plant) (one-way trip)	3.0	1.0	3.0	0.5	1.5	750	0.142	0.4	155.5
Pick up trucks (leaving plant) (one-way trip)	3.0	1.0	3.0	0.5	1.5	750	0.142	0.4	155.5
Front End Loaders (leaving plant) (one-way trip)	2.0	1.0	2.0	1.3	2.6	750	0.142	0.3	103.7
Front End Loaders (entering plant) (one-way trip)	2.0	1.0	2.0	1.3	2.6	750	0.142	0.3	103.7
Long Trucks (leaving plant) (one-way trip)	4.0	1.0	4.0	2.0	8.0	600	0.114	0.5	165.9
Fork Lifts (entering plant) (one-way trip)	4.0	1.0	4.0	4.0	16.0	600	0.114	0.5	165.9
		Totals	**10.0**		**8.2**			**1.4**	**518.5**

Average Vehicle Weight Per Trip = 0.8 tons/trip
Average Miles Per Trip = 0.14 miles/trip

Unmitigated Emission Factor, Ef = k*[(s/12)^a]*[(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 =	6.0	6.0	6.0	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron and Steel Production)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	0.8	0.8	0.8	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, Eext = E * [(365 - P)/365] (Equation 2 from AP-42 13.2.2)
Mitigated Emission Factor, Eext = E * [(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, Ef =	1.68	0.45	0.04	lb/mile
Mitigated Emission Factor, Eext =	1.11	0.29	0.03	lb/mile
Dust Control Efficiency =	0%	0%	0%	(pursuant to control measures outlined in fugitive dust control plan)

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)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Pick up trucks (entering plant) (one-way trip)	0.13	0.03	0.00	0.09	0.02	0.00	0.09	0.02	0.00
Pick up trucks (leaving plant) (one-way trip)	0.13	0.03	0.00	0.09	0.02	0.00	0.09	0.02	0.00
Front End Loaders (leaving plant) (one-way trip)	0.09	0.02	0.00	0.06	0.02	0.00	0.06	0.02	0.00
Front End Loaders (entering plant) (one-way trip)	0.09	0.02	0.00	0.06	0.02	0.00	0.06	0.02	0.00
Long Trucks (leaving plant) (one-way trip)	0.14	0.04	0.00	0.09	0.02	0.00	0.09	0.02	0.00
Fork Lifts (entering plant) (one-way trip)	0.14	0.04	0.00	0.09	0.02	0.00	0.09	0.02	0.00
Totals	**0.44**	**0.12**	**0.01**	**0.29**	**0.08**	**0.01**	**0.29**	**0.08**	**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)
Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

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

IDEM OAQ does not guarantee the accuracy of the information and calcu

All information and calculations submitted as part of a permit applicatio and appropriateness as part of the permit application review process an

The tables below include examples of common vehicles and their appro values and actual vehicle weights and maximum load capacities will var type/bulk density of the materials transported in the vehicles at the sour

Vehicle Type	Maximum Weight of Unloaded Vehicle (tons)	Load Capacity (cubic yards)
Dump truck (8 cubic yard capacity)	8.0	6.0
Dump truck (10 cubic yard capacity)	12.5	10.0
Dump truck (12 cubic yard capacity)	14.0	12.0
Dump truck (16 cubic yard capacity)	15.0	16.0
Dump truck (20 cubic yard capacity)	16.0	20.0
Dump truck (24 cubic yard capacity)	20.0	24.0
Front-end loader (3 cubic yard capacity)	15.0	3.0

Vehicle Type	Maximum Weight of Unloaded Vehicle (tons)	Load Capacity (cubic yards)
Passenger Car (4-door)	2.0	0.50
Sport Utility Vehicle (4-door)	3.0	0.60
Pickup Truck	2.5	2.80
Cargo Van	2.6	8.70
Moving Truck (2-axle) (10' Straight Truck)	2.9	14.8
Moving Truck (2-axle) (14' Straight Truck)	4.0	24.8
Moving Truck (2-axle) (17' Straight Truck)	4.1	31.7
Moving Truck (2-axle) (24' Straight Truck)	5.8	51.9
Moving Truck (2-axle) (26' Straight Truck)	6.3	59.0
Freight Truck (3 axles)	11.0	NA

ılations below.

n shall be reviewed by IDEM OAQ Permit Branch for accuracy, completeness, robustness, d a final determination shall be made by the OAQ, Permits Branch.

ximate weights (unloaded) and maximum load capacities. These are just approximate y based on the actual type/size/model/capacity of the vehicles used by the source and the ce.

Material Loaded	Bulk Density of Material (lbs/cubic foot)	Maximum Weight of Load (tons)	Maximum Weight of Loaded Vehicle (tons/trip)
crushed stone, dry sand, or soil	100	8.1	16.1
crushed stone, dry sand, or soil	100	13.5	26.0
crushed stone, dry sand, or soil	100	16.2	30.2
crushed stone, dry sand, or soil	100	21.6	36.6
crushed stone, dry sand, or soil	100	27.0	43.0
crushed stone, dry sand, or soil	100	32.4	52.4
crushed stone, dry sand, or soil	100	4.1	19.1

Material Loaded	Bulk Density of Material (lbs/cubic foot)	Maximum Weight of Load (tons)	Maximum Weight of Loaded Vehicle (tons/trip)
Not Needed (assumed load)	Not Needed (assumed load)	0.7	2.7
Not Needed (assumed load)	Not Needed (assumed load)	1.0	4.0
Not Needed (assumed load)	Not Needed (assumed load)	0.7	3.2
Not Needed (assumed load)	Not Needed (assumed load)	1.9	4.5
Not Needed (assumed load)	Not Needed (assumed load)	1.3	4.2
Not Needed (assumed load)	Not Needed (assumed load)	1.5	5.5
Not Needed (assumed load)	Not Needed (assumed load)	2.9	7.0
Not Needed (assumed load)	Not Needed (assumed load)	3.2	9.0
Not Needed (assumed load)	Not Needed (assumed load)	3.7	10.0
Not Needed (assumed load)	Not Needed (assumed load)	16.0	27.0

Freight Truck (4 axles)	13.0	NA
Freight Truck (5 axles)	15.0	NA
Freight Truck (6 axles)	16.0	NA

Vehicle Type	Maximum Weight of Unloaded Vehicle (tons)	Load Capacity (cubic yards)
Grain Tanker (5 axle bulk dry tanker) (900 bushel capacity)	15.0	40.0

Vehicle Type	Maximum Weight of Unloaded Vehicle (tons)	Load Capacity (gallons)
Tanker Truck (6000 gal)	16.0	6000

Vehicle Type	Maximum Weight of Unloaded Vehicle (tons)	Load Capacity (cubic yards)
Dump truck (8 cubic yard capacity)	8.0	6.0
Dump truck (10 cubic yard capacity)	12.5	10.0
Dump truck (12 cubic yard capacity)	14.0	12.0
Dump truck (16 cubic yard capacity)	15.0	16.0
Dump truck (20 cubic yard capacity)	16.0	20.0
Dump truck (24 cubic yard capacity)	20.0	24.0
Front-end loader (3 cubic yard capacity)	15.0	3.0

Not Needed (assumed load)	Not Needed (assumed load)	22.0	35.0
Not Needed (assumed load)	Not Needed (assumed load)	25.0	40.0
Not Needed (assumed load)	Not Needed (assumed load)	32.0	48.0

Material Loaded	Bulk Density of Material (lbs/cubic foot)	Maximum Weight of Load (tons)	Maximum Weight of Loaded Vehicle (tons/trip)
Grain (corn or soybeans)	46	24.8	39.8

Material Loaded	Bulk Density of Material (lbs/cubic foot)	Maximum Weight of Load (tons)	Maximum Weight of Loaded Vehicle (tons/trip)
water	62.4	25.0	41.0

Material Loaded	Bulk Density of Material (lbs/cubic foot)	Maximum Weight of Load (tons)	Maximum Weight of Loaded Vehicle (tons/trip)
broken coal (bituminous)	52	4.2	12.2
broken coal (bituminous)	52	7.0	19.5
broken coal (bituminous)	52	8.4	22.4
broken coal (bituminous)	52	11.2	26.2
broken coal (bituminous)	52	14.0	30.0
broken coal (bituminous)	52	16.8	36.8
broken coal (bituminous)	52	2.1	17.1

CC Cook & Son Lumber Company
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Reelsville, IN 46171

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