



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 10, 2013

RE: Monsanto Company / 073-32601i-00035

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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John Sturges
PO Box 35, 15849 South U.S. Highway 231
Remington, IN 47977

January 10, 2013

Re: Interim Significant Permit Revision Petition Approval
F073-32601i-00035

Dear Mr. Sturges:

On December 17, 2012, the Office of Air Quality (OAQ) received an interim Significant Permit Revision petition from Monsanto Company, located at 15849 South U.S. Highway 231, in Remington, Indiana for the following modifications and construction:

1. Huskers 1 and 2 will be modified to have one additional husking bed each.
2. Dry 5 and dry 6 will be modified to each have a drying rate of 778 bushels (43,568 pounds) per hour and heat input capacity of 252 MMBtu/hr (28 burners x 9 MMBtu/hr), equipped with twenty eight (28) storage bins, identified as Dry 5 and Dry 6 Bins, used for drying with capacity of 2,000 bushels (112,000 pounds) each.
3. One (1) corn sheller, identified as Sheller #3, exhausting to a baghouse for particulate control, identified as CE15c, with a capacity of 2,500 bushels (140,000 pounds) of corn per hour.
4. Two new sheller aspirators, identified as Sheller Aspirator 3 and Sheller Aspirator 4, exhausting to a new baghouse for particulate control, identified as CE16, with a capacity of 2,500 bushels (140,000 pounds) of corn per hour, each
5. The removal of 12 bulk storage bins and the addition of 80 new ones. The bulk storage bins will be renumbered.
6. The shelled corn loadout constructed in 1976 will be demolished and a new shelled corn loadout operation will be added. The new shelled corn loadout operation will have a maximum capacity of 2,500 bushels per hour (140,000 pounds) and exhausting to a baghouse for particulate control, identified as CE-34r (House Dust System).
7. The 6 loadout bins will be replaced with 4 shelled corn loadout bins. Four (4) shelled corn loadout bins identified as 31.830, 31.840, 31.850, 31.860 with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust system). Each bin has a capacity of 2,580 bushels (144,480 lbs)
8. Four (4) cob bins identified as 31.810, 31.820, 31.870, and 31.880. Each has a capacity of 2,832 cubic feet (48,144 pounds) and is utilized for cob loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust system).
9. One (1) dust bin identified as 31.900 with a capacity of 3,000 cubic feet (60,000 pounds) and utilized for dust loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
10. One shelled corn receiving operation identified as Shelled Corn Receiving with a capacity of 5,000 bushels per hour (280,000 pounds) exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust system).
11. One debagger, identified as small lot debagger EU106.
12. The addition of the following insignificant activities:
 - (a) One Central Vacuum system identified as Tower Central Vac for general clean up
 - (b) One Central Vacuum system identified as Sheller Central Vac for general clean up.
 - (c) One husk chopper identified as Husk Chopper, with a capacity of 500 bushels per hour (28,000 pounds per hour); and
 - (d) Internal Handling operations

A public notice of the interim Significant Permit Revision petition was published in the Journal and Courier on December 18, 2012. The public comment period ended on December 31, 2012.

There were no comments received during the public comment period. This interim Significant Permit Revision petition is in effect upon issuance and will expire on the effective date of the final Significant Permit Revision permit.

The interim Significant Permit Revision petition may be revoked after the effective date upon a written finding by the Indiana Department of Environmental Management (IDEM) that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final Significant Permit Revision permit is denied. The IDEM has reviewed this interim Significant Permit Revision petition and has not found any such reason. The facilities subject to this approval may not operate until the final Significant Permit Revision is issued by OAQ. Operation of the facilities subject to this approval will be governed by 326 IAC 2-7-12 (b)(7).

The interim Significant Permit Revision petition is federally enforceable. Detailed construction and operation conditions will be specified in the final Significant Permit Revision permit 073-32601-00035.

If you have any questions regarding this interim Significant Permit Revision petition, please contact Ghassan Shalabi, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Ghassan Shalabi or extension 4-5378, or dial 317-234-5378.

Sincerely,



Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Enclosure: Interim Permit Evaluation (3 pages)

GS

cc: File – Jasper County
Jasper County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch

David Jordan
ERM, Inc.
11350 N. Meridian, Suite 320
Caramel, IN 46032

Affidavit of Construction

I, John Sturges, being duly sworn upon my oath, depose and say:

(Name of the Authorized Representative)

1. I live in Tippecanoe County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of Site Manager for Monsanto Company.
(Title) (Company Name)
3. By virtue of my position with Monsanto Company, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Monsanto Company.
(Company Name)
4. I, the undersigned, have submitted an interim (significant permit revision and significant source modification) petition to the Office of Air Quality for the construction of a new corn sheller (Sheller 3), 80 new bulk storage bins, Sheller Aspirator 3 & 4, EU106 Debagger, Dust Bin 31.900, four (4) shelled corn loadout bins, shelled corn loadout, shelled corn receiving, four (4) cob bins, a sheller central vacuum system, and tower central vacuum system; the modified equipment includes, Dry 5 and 6, Husker #1 and #2 and the internal handling system.
5. Monsanto Company recognizes the following risks:
(Company Name)
(a) own financial risk, (b) that IDEM may require additional or different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and (d) any additional air permitting requirements.

Further Affiant said not.

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

Signature: [Handwritten Signature]

Printed Name: John Sturges

Phone No.: (219) 261-2122

Date: 11/29/12



AMY K. WEALING
Resident of Jasper County, IN
My Commission Expires: June 7, 2019

STATE OF INDIANA)
COUNTY OF Jasper)

SS

Subscribed and sworn to me, a notary public in and for Jasper

County and State of Indiana on this 29 day of November, 20 12.

My Commission expires: 6-07-2019

Signature: [Handwritten Signature]

Printed Name: Amy K Wealing



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

RECEIVED
 State of Indiana
 Permits Hand Delivered
 DEC 17 2012 -8

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:

DATE APPLICATION WAS RECEIVED:

RECEIVED
 hand delivered
 DEC 17 2012

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: Monsanto Company 3. Plant ID: 073 – 0035

4. Billing Address: 15849 South U.S. Highway 231

City: Remington State: IN ZIP Code: 47977 –

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

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

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

Transition (between permit levels) From: To:

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

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

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

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

PART B: Pre-Application Meeting

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

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

No Yes: Date:

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

No Yes: Proposed Date for Meeting:

PART C: Confidential Business Information

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

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

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

No Yes

PART D: Certification Of Truth, Accuracy, and Completeness

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

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

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

John Sturges
Name (typed)

Signature

Site Manager
Title

Date

12/14/12

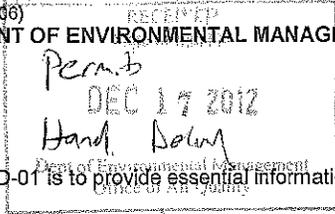


OAQ GENERAL SOURCE DATA APPLICATION

GSD-01: Basic Source Level Information

State Form 50640 (R4 / 9-06)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



IDEM - Office of Air Quality - Permits Branch
 100 N. Senate Avenue, 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/permits/air/index.html

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 online at www.in.gov/idem/permits/air/apps/instructions/gsd01instructions.html.
- 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: Source / Company Location Information

| | | | |
|---|--------------------|-----------------------------------|--|
| 1. Source / Company Name: Monsanto Company | | 2. Plant ID: 073 - 00035 | |
| 3. Location Address: 15849 South U.S. Highway 231 | | | |
| City: Remington | State: IN | ZIP Code: 47977 - | |
| 4. County Name: Jasper | | 5. Township Name: Carpenter | |
| 6. Geographic Coordinates: | | | |
| Latitude: 40.78318 | | Longitude: -87.15408 | |
| 7. Universal Transferal Mercadum Coordinates (if known): | | | |
| Zone: 16 | Horizontal: 487000 | Vertical: 4514700 | |
| 8. Adjacent States: Is the source located within 50 miles of an adjacent state? | | | |
| <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Indicate Adjacent State(s): <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY) | | | |
| 9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? | | | |
| <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Indicate Nonattainment Pollutant(s): <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO _x <input type="checkbox"/> O ₃ <input type="checkbox"/> PM <input type="checkbox"/> PM ₁₀ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> SO ₂ | | | |
| 10. Portable / Stationary: Is this a portable or stationary source? | | | |
| | | <input type="checkbox"/> Portable | <input checked="" type="checkbox"/> Stationary |

PART B: Source Summary

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

PART C: Source Contact Information

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

18. Name of Source Contact Person: John Sturges

19. Title (optional): Site Manager

20. Mailing Address: PO Box 35, 15849 South U.S. Highway 231

City: Remington

State: IN

ZIP Code: 47977 -

21. Electronic Mail Address (optional): john.sturges@monsanto.com

22. Telephone Number: (219) 261 - 2122

23. Facsimile Number (optional): (219) 261 - 3681

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: John Sturges

25. Title: Site Manager

26. Mailing Address: PO Box 35, 15849 South U.S. Highway 231

City: Remington

State: IN

ZIP Code: 47977 -

27. Telephone Number: (219) 261 - 2122

28. Facsimile Number (optional): (219) 261 - 3681

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: Monsanto Company

31. Name of Owner Contact Person: Teri Merical

32. Mailing Address: 800 North Lindbergh Blvd, Mail Code OC5D

City: St. Louis

State: MO

ZIP Code: 63167 -

33. Telephone Number: (314) 694 - 3673

34. Facsimile Number (optional): () -

35. 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

36. Company Name of Operator: SAME AS OWNER

37. Name of Operator Contact Person:

38. Mailing Address:

City:

State:

ZIP Code: -

39. Telephone Number: () -

40. Facsimile Number (optional): () -

PART G: Agent Information

41. **Company Name of Agent:** ERM, Inc.

42. **Type of Agent:** Environmental Consultant Attorney Other (specify):

43. **Name of Agent Contact Person:** David Jordan

44. **Mailing Address:** 11350 N. Meridian, Suite 320

| | | |
|---------------------|------------------|--------------------------|
| City: Carmel | State: IN | ZIP Code: 46032 - |
|---------------------|------------------|--------------------------|

45. **Electronic Mail Address (optional):** dave.jordan@erm.com

46. **Telephone Number:** (317) 706 - 2000

47. **Facsimile Number (optional):** (317) 706 - 2010

48. **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

49. **Date application packet was filed with the local library:**

50. **Name of Library:** Remington-Carpenter Township Public Library

51. **Name of Librarian (optional):**

52. **Mailing Address:** 105 Ohio Street, P.O. Box 65

| | | |
|------------------------|------------------|--------------------------|
| City: Remington | State: IN | ZIP Code: 47977 - |
|------------------------|------------------|--------------------------|

53. **Internet Address (optional):**

54. **Electronic Mail Address (optional):** rctpldir@rctpl.lib.in.us

55. **Telephone Number:** (219) 261 - 2543

56. **Facsimile Number (optional):** (219) 261 - 3800

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.

| 57. Legal Name of Company | 58. Dates of Use |
|---------------------------|------------------|
| Not Applicable | to |
| | to |

59. **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:**

PART L: Source Process Description

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

| 65. Process Description | 66. Products | 67. SIC Code | 68. NAICS Code |
|-------------------------|--------------------|--------------|----------------|
| Corn Seed Plant | Cleaned corn seeds | 0723 | 115114 |
| | | | |
| | | | |
| | | | |

PART M: Existing Approvals (if applicable)

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

| 69. Permit ID | 70. Emissions Unit IDs | 71. Expiration Date |
|---------------|------------------------|---------------------|
| 30542 | FESOP Renewal | 11/20/2022 |
| | | |
| | | |
| | | |

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.

| 72. Emissions Unit ID | 73. Type of Emissions Unit | 74. Actual Dates | | |
|-----------------------|----------------------------|--------------------|------------------------|-----------------|
| | | Began Construction | Completed Construction | Began Operation |
| | None | | | |
| | | | | |
| | | | | |
| | | | | |

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.

| 75. Emissions Unit ID | 76. NEW | 77. MOD | 78. Type of Emissions Unit | 79. Estimated Dates | | |
|-------------------------|---------|---------|--|---------------------|-----------------------|-----------------|
| | | | | Begin Construction | Complete Construction | Begin Operation |
| Dry 5 | | X | Corn Husk Dryer expansion | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Dry 6 | | X | Corn Husk Dryer expansion | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Shelling 3 Storage Bins | X | | Sheller/Cleaner | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| | X | | Renumbered all the storage bins. 12 Bins removed, 80 new bins. | 1/1/2013 | 8/1/2013 | 8/1/2013 |

| | | | | | | |
|------------------------------|---|--|------------------------|----------|----------|----------|
| Sheller Aspirators 3&4 | X | | Sheller aspirators 3&4 | 1/1/2013 | 8/1/2013 | 8/1/2013 |
|------------------------------|---|--|------------------------|----------|----------|----------|

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

| Interim Petition Checklist | |
|--|--|
| Instructions: (a) Please answer yes or no. (b) Enclosed this checklist with the completed interim petition package. | |
| Company Name: Monsanto Company | |
| Location: 15849 South U.S. Highway 231, Remington, Indiana | |
| Yes | 1. Is the written interim petition prepared? |
| Yes | 2. Is the written petition signed and dated? |
| Yes | 3. Is the public notice drafted? |
| Yes | 4. Is the filing and review fee enclosed? \$625 for TV, FESOP, and SSOA. \$500 for MSOP. |
| Yes | 5. Is the account number written on the check or money order? |
| Yes | 6. Is the Affidavit of Construction signed, dated, and notarized? |
| Yes | 7. Is the proposed modification/revision described in detail? |
| Yes | 8. Is the proposed modification/revision a modification or addition to an existing source? |
| Yes | 9. Is the proposed modification/revision located in an attainment area for all the criteria pollutants? |
| No | 10. Is the proposed modification/revision located in a nonattainment area? If yes, answer No. 11. |
| N/A | 11. Is the pollutant, which the nonattainment designation is based on, going to be emitted in this proposed modification/revision? |
| Yes | 12. Are potential emissions calculated? |
| Yes | 13. Is federal enforceability consent specifically indicated? |
| Yes | 14. Are specific conditions, limitations, and/or restrictions included that preclude applicability of PSD? |
| N/A | 15. Are specific conditions, limitations, and/or restrictions included that preclude applicability of NSPS? |
| N/A | 16. Are specific conditions, limitations, and/or restrictions included that preclude applicability of NESHAP? |
| Yes | 17. Are specific conditions, limitations, and/or restrictions included that assure compliance with all applicable state air pollution rules? |
| Yes | 18. Has a regular modification/revision permit application been submitted to OAQ? |
| No | 19. Has the proposed modification/revision commenced prior to the submission of the interim permit petition? |
| Yes | 20. The interim petition comment period has been decided to be: <u>14 calendar days</u> |
| Additional Comments: | |

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

PETITION FOR INTERIM SIGNIFICANT PERMIT REVISION, SIGNIFICANT SOURCE MODIFICATION,
MINOR PERMIT REVISION, OR MINOR SOURCE MODIFICATION

Source Name: Monsanto Company
 Source Address: 15849 South Highway US 231, Remington, Indiana 47977
 Mailing Address: P.O. Box 35, Remington, Indiana 47977
 SIC/NAICS Code: 0723 NAICS 115114

Description of the Operation or Equipment:

Monsanto operates a seed facility in Remington, Indiana. Monsanto is proposing to make the following modifications at this facility:

1. Two huskers will be modified to have an additional husking bed. Husker 1 and Husker 2, which each consist of 7 husking beds constructed in 1976, modified in 1995, 2007, 2008 and 2013 exhausting to general ventilation, capacity: 2,000 bushels (112,000 pounds) of ear corn per hour for each line and each husker.
2. Two (2) natural gas-fired bin dryers will be modified. Two (2) natural gas-fired bin dryers identified as Dry 5 and Dry 6, approved for construction in 2008 and 2009 and approved for modification in 2013, exhausting to Stack Dry 5 and Stack Dry 6, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour (Drying rate and heat input need recalculated for 28 bins), each equipped with twenty eight (28) storage bins, identified as Dry 5 and Dry 6 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
3. One corn sheller will be added to the facility exhausting to a new baghouse. One (1) corn sheller, identified as Sheller #3, approved for construction in 2013, exhausting to a baghouse for particulate control, identified as CE15c, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
4. Two new sheller aspirators will be added to the facility (Sheller Aspirator 3 & 4), they will vent to a new baghouse along with the existing aspirators. The new description will be the following: Four (4) aspirators, identified as Sheller Aspirator 1, Sheller Aspirator 2, Sheller Aspirator 3 and Sheller Aspirator 4 approved for construction in 2009 and 2013, exhausting to a baghouse for particulate control, identified as CE16 capacity 2,500 bushels (140,000 pounds) of corn per hour, each.
5. The storage bins will be renumbered. There are 12 bins that will be removed from the facility and 80 new bins will be added. The new description of the bins will be the following:

Two Hundred and forty eight (248) bulk storage bins identified as 451.01-451.31, 452.01-452.31, 453.01-453.31, 454.01-454.31, 455.01-455.31, 456.01-456.31, 457.01-457.31 and 458.01-458.31 constructed in 1999, 2007, 2008, 2009, and 2013 exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).

(a) Storage bins 451.01-451.31, 454.01-454.31, 455.01-455.31, and 458.01-458.31 have a capacity of 7,500 bushels (420,000 pounds) each.

(b) Storage bins 452.01-452.31, 453.01-453.31, 456.01-456.31, and 457.01-457.31 have a capacity of 5,000 bushels (280,000 pounds) each.
6. The shelled corn loadout constructed in 1976 will be demolished and a new shelled corn loadout operation will be added. One (1) shelled corn loadout operation identified as Shelled Corn Loadout approved for

- construction in 2013 with a maximum capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34r (House Dust System).
7. The 6 loadout bins will be replaced with 4 shelled corn loadout bins. Four (4) shelled corn loadout bins identified as 31.830, 31.840, 31.850 and 31.860 approved for construction in 2013 with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust System). Each bin has a capacity of 2,580 bushels (144,480 Lbs).
 8. Four new cob bins will be installed. Four (4) cob bins identified as 31.810, 31.820, 31.870, and 31.880 approved for construction in 2013. Each has a capacity of 2,832 cubic feet (48,144 pounds) and is utilized for cob loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
 9. One new dust bin will be installed. One (1) dust bin identified as 31.900 approved for construction in 2013 with a capacity of 3,000 cubic feet (60,000 pounds) and utilized for dust loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
 10. One shelled corn receiving operation will be installed. One (1) shelled corn receiving operation identified as Shelled Corn Receiving approved for construction in 2013 with a capacity of 5,000 bushels per hour (280,000 pounds) exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
 11. One debagger will be added to the facility on the small lot system. The description of the small lot bagging system will be changed to the following: One (1) small lot bagging operation, constructed in 2005, approved for modification in 2013 consisting of a debagger identified EU106, the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit 2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: 1000 bushels (56,000 pounds) per hour, total.
 12. The following insignificant activities will be added to the permit:
 - (a) One Central Vacuum system identified as Tower Central Vac for general clean up.
 - (b) One Central Vacuum system identified as Sheller Central Vac for general clean up.
 - (c) One husk chopper identified as Husk Chopper, with a capacity of 500 bushels per hour (28,000 pounds per hour).
 - (d) Internal handling.
 13. Calculations indicate that baghouses identified as Red Dust Collector, CE34, CE35, CE14, White Dust Collector 1 & 2, and Gravity Table Dust Collectors 1-16 do not have to be operated in order for the associated emission units to comply with 326 IAC 6-3-2.

Potential To Emit:

The following table presents a summary of the potential emissions from new and existing equipment associated with Monsanto's operations (with restrictions contained in this permit):

| Process/emission unit | Potential To Emit (tons/year) | | | | | | | |
|---|-------------------------------|------------------|-------------------|-----------------|------|-------|-----------------|---------------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | CO | NO _x | HAPs |
| Corn Receiving #1, #2, #3, and #4 | 3.50 | 0.78 | 0.13 | - | - | - | - | - |
| Huskers #1, #2, #3, and #4 | 6.10 | 3.40 | 0.58 | - | - | - | - | - |
| Dry #1, #2, #3, #4, #5 & #6 (grain drying) | 47.00 | 12.00 | 2.00 | - | - | - | - | - |
| Natural gas emissions of Dry #1, #2, #3, #4, #5, & #6 | 1.07 | 4.28 | 4.28 | 0.34 | 3.10 | 47.33 | 56.35 | 1.01 hexane 1.06 total |
| Sheller #1 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller #2 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller #3 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller Aspirator 1 & 2 | 0.05 | 0.03 | 0.00 | - | - | - | - | - |
| Sheller Aspirator 3 & 4 | 0.05 | 0.03 | 0.00 | - | - | - | - | - |
| Bulk storage bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Shelled Corn Loadout | 6.45 | 2.18 | 0.37 | - | - | - | - | - |
| (4) Shelled Corn Loadout Bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| (4) Cob Loadout Bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Dust Bin 31.900 | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Shelled Corn Receiving | 2.63 | 0.59 | 0.10 | - | - | - | - | - |
| Cleaners, Sorters, Sizers Line 1 | 1.90 | 1.90 | 1.90 | - | - | - | - | - |
| Cleaners, Sorters, Sizers Line 2 | 1.90 | 1.90 | 1.90 | - | - | - | - | - |
| Sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2 | 23.00 | 14.03 | 14.03 | - | - | - | - | - |
| Storage Bins, Line 1 & 2 | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| One (1) bagging machine EU12 | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Treating & packaging storage bins | 1.88 | 0.47 | 0.083 | - | - | - | - | - |

| Process/emission unit | Potential To Emit (tons/year) | | | | | | | |
|--|-------------------------------|------------------|-------------------|-----------------|--------------|--------------|-----------------|-------------------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | CO | NO _x | HAPs |
| Seed Pak Filler | 11.22 | 6.25 | 1.07 | - | - | - | - | - |
| Refuge Scales 1 & 2 | 4.04 | 2.25 | 0.384 | - | - | - | - | - |
| One (1) small lot bagging operation, consisting of EU102 through EU104 | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Debagger EU106 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| One (1) debagger, identified as EU34 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| Three (3) Aspirators, identified as Aspirators 1 through 3 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| Three (3) treaters, identified as Treaters 1, 2 & 3 | 11.22 | 6.25 | 1.07 | - | 90.00 | - | - | 0.21 glycol ethers 0.26 total |
| Dust Collector Loadouts | 0.75 | 0.25 | 0.043 | - | - | - | - | - |
| Insignificant Activities | | | | | | | | |
| Internal Handling | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Husk Chopper | 1.53 | 0.85 | 0.15 | - | - | - | - | - |
| Sheller Central Vac | 0.45 | 0.45 | 0.45 | - | - | - | - | - |
| Tower Central Vac | 0.50 | 0.50 | 0.50 | - | - | - | - | - |
| Tanks | 0.00 | 0.00 | 0.00 | - | - | - | - | - |
| Bulk Seed Receiving | 10.73 | 2.39 | 0.40 | - | - | - | - | - |
| Heaters | 0.01 | 0.06 | 0.06 | - | - | - | - | - |
| Total Emissions | 184.44 | 86.23 | 36.22 | 0.34 | 93.10 | 47.33 | 56.35 | 1.01 hexane 1.32 total |

Greenhouse Gas Emissions

| | | | |
|---|--------------|------------------------------|---------------|
| Natural gas emissions of Dry #1, #2, #3, #4, #5, & #6 | Total | CO₂e (tpy) | 68,025 |
|---|--------------|------------------------------|---------------|

PSD Requirements:

(1) Particulate Matter (PM) [326 IAC 2-2]

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

The PM emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, six (6) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, 5, and 6 (grain drying), three (3) Shellers identified as Sheller 1, 2, & 3, the four (4) sheller aspirators identified as Sheller Aspirators 1, 2, 3 & 4, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102-104 shall be limited to less than the throughput and emission limits specified in the following table:

| Emission Units (Control Device) | Limited Corn Throughput (tons/yr*) | PM Emission Limit (lbs PM/ton corn) |
|--|------------------------------------|-------------------------------------|
| Corn Receiving 1, 2, 3, and 4 | 200,000, total | 0.035 |
| Huskers 1, 2, 3, and 4 | 200,000, total | 0.061 |
| Dryers 1, 2, 3, 4, 5, and 6 | 200,000, total | 0.47 |
| Sheller 1, 2, & 3 (CE-15a, b & c) | 2,500 hours/year | 0.375 |
| Sheller Aspirators 1, 2, 3 & 4 (CE-16) | 150,000, each | 0.061 |
| Bagging Machine EU12 (Red Dust Collector) | 150,000 | 0.061 |
| Small Lot Bagging EU102 through EU104 (CE14) | 150,000, total | 0.061 |

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

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

Compliance with this limitation shall render the requirements of 326 IAC 2-2, PSD, not applicable.

(2) Particulate Matter (PM₁₀) [326 IAC 2-8-4]

In order to render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

The PM₁₀ emissions from the four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, six (6) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, 5, and 6 (grain drying), three (3) Shellers identified as Sheller 1, 2, & 3, the four (4) sheller aspirators identified as Sheller Aspirators 1, 2, 3 & 4, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102-104 shall be limited to less than the throughput and emission limits specified in the following table:

| Emission Units (Control Device) | Limited Corn Throughput (tons/yr*) | PM ₁₀ Emission Limit (lbs PM ₁₀ /ton corn) |
|--|------------------------------------|--|
| Corn Receiving 1, 2, 3, and 4 | 200,000, total | 0.0078 |
| Huskers 1, 2, 3, and 4 | 200,000, total | 0.034 |
| Dryers 1, 2, 3, 4, 5, and 6 | 200,000, total | 0.12 |
| Sheller 1, 2, & 3 (CE-15a, b & c) | 2,500 hours/year | 0.22875 |
| Sheller Aspirators 1, 2, 3 & 4 (Baghouse CE16) | 150,000, total | 0.034 |
| Bagging Machine EU12 (Red Dust Collector) | 150,000 | 0.034 |
| Small Lot Bagging EU102 through EU104 (CE14) | 150,000, total | 0.034 |

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of

each month.

Compliance with these limits, combined with the potential to emit PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 to less than 100 tons per 12 consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

(3) Natural Gas Limit [326 IAC 2-8-4][326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) The total amount of natural gas burned in dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall be less than 1,126.9 million cubic feet (MMCF) per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) NOx emissions from dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall not exceed 100 pounds per million cubic foot (lb/MMCF);
- (c) CO emissions from dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall not exceed 84 pounds per million cubic foot (lb/MMCF);
- (d) carbon dioxide (CO₂) emissions from natural gas combustion shall not exceed 120,000 pounds per million cubic foot (lb/MMCF);
- (e) methane (CH₄) emissions from natural gas combustion shall not exceed 2.3 pounds per million cubic foot (lb/MMCF);
- (f) nitrous oxide (N₂O) emissions from natural gas combustion shall not exceed 2.2 pounds per million cubic foot (lb/MMCF);
- (g) the Global Warming Potential (GWP) for carbon dioxide (CO₂) shall not exceed 1.0;
- (h) the Global Warming Potential (GWP) for methane (CH₄) shall not exceed 21; and
- (i) the Global Warming Potential (GWP) for nitrous oxide (N₂O) shall not exceed 310.

Compliance with these limits, combined with the NOx, CO, and carbon dioxide equivalent emissions (CO₂e) from all other emission units at the source, shall limit the source-wide total NOx and CO emissions to less than 100 tons per twelve (12) consecutive month period, each, the source-wide total greenhouse gas (GHG) emissions to less than 100,000 tons of carbon dioxide equivalent emissions (CO₂e) per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

NSPS Requirements:

There is no applicable NSPS rule applicable to this operation or equipment.

NESHAP Requirements:

There is no applicable NESHAP rule applicable to this operation or equipment.

State Rules & Requirements:

(4) Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

| Emission Unit (baghouse) | Process weight rate (tons per hour) | Allowable particulate emission rate (pounds per hour) |
|--|--|---|
| Corn Receiving 1, 2, 3 & 4 (none) | 56.0 each | 45.64 each |
| Huskers 1, 2, 3, & 4 part of Corn Receiving 1, 2, 3, & 4 (none) | 56.0 each | 45.64 each |
| Natural gas-fired bin dryers, identified as Dry 1, Dry 2, Dry 3, Dry 4, Dry 5 & Dry 6 (Stack Dry 1, 2, 3, 4, 5, & 6) | 14.0 each, Dry 1, 2, 3 & 4 22.0 each, Dry 5 & 6 | 24.03 each Dry 1-4 32.31 each Dry 5 & 6 |
| Three (3) Corn Shellers, identified as Sheller 1, Sheller 2 & Sheller 3 (Baghouses CE 15a, b, & c) | 70.0 each | 70.63 each |
| Sheller Aspirators 3 & 4 | 140.0 total | 54.72 total |
| Shelled Corn Loadout | 70.0 | 70.63 |
| Four (4) Shelled Corn Loadout Bins | 70.0 | 70.63 |
| Four (4) Cob Bins | 24.0 each | 34.55 each |
| Dust Bin 31.900 | 30.0 | 40.04 |
| Shelled Corn Receiving | 140.0 | 54.72 |
| Internal Handling | 28.0 | 39.35 |
| Debagger EU106 | 28.0 | 38.23 |
| 248 Bulk Storage Bins | 28.0 each | 38.23 each |

(5) Opacity [326 IAC 5-1]

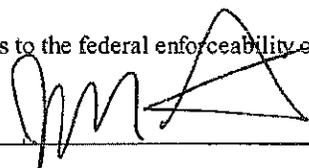
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

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

Federal Enforceability:

The company consents to the federal enforceability of this interim petition.

Signature: _____



Printed Name: _____

John Sturges

Title or Position: _____

Site Manager

Phone No.: _____

(219) 261-2122

Date: _____

12/14/12

Affidavit of Construction

I, John Sturges, being duly sworn upon my oath, depose and say:

(Name of the Authorized Representative)

1. I live in Tippecanoe County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of Site Manager for Monsanto Company.
(Title) (Company Name)
3. By virtue of my position with Monsanto Company, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Monsanto Company.
(Company Name)
4. I, the undersigned, have submitted an interim (significant permit revision and significant source modification) petition to the Office of Air Quality for the construction of a new corn sheller (Sheller 3), 80 new bulk storage bins, Sheller Aspirator 3 & 4, EU106 Debagger, Dust Bin 31.900, four (4) shelled corn loadout bins, shelled corn loadout, shelled corn receiving, four (4) cob bins, a sheller central vacuum system, and tower central vacuum system; the modified equipment includes, Dry 5 and 6, Husker #1 and #2 and the internal handling system.
5. Monsanto Company recognizes the following risks:
(Company Name)
(a) own financial risk, (b) that IDEM may require additional or different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and (d) any additional air permitting requirements.

Further Affiant said not.

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

Signature: [Handwritten Signature]
 Printed Name: John Sturges
 Phone No.: (219) 261-2122
 Date: 11/29/12



AMY K. WEALING
 Resident of Jasper County, IN
 My Commission Expires: June 7, 2019

STATE OF INDIANA)
 COUNTY OF Jasper)SS

Subscribed and sworn to me, a notary public in and for Jasper
 County and State of Indiana on this 29 day of November, 20 12.
 My Commission expires: 6-07-2019

Signature: [Handwritten Signature]
 Printed Name: Amy K Wealing

**NOTICE OF 14-DAY PERIOD
FOR PUBLIC COMMENT**

Proposed Approval of Interim Significant Permit Revision to Federally Enforceable State Operating Permit
for **Monsanto Company**
in **Jasper County**

Notice is hereby given that the above company located at 15849 South Highway US 231, Remington, Indiana, has made application to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for an interim permit to modify two natural gas-fired grain dryers (Dry 5 & 6), construct a new Sheller, two new sheller aspirators, four shelled corn loadout bins, a new shelled corn loadout operation, four cob bins, a new dust bin, a new shelled corn receiving area, a debagger, and two central vacuum systems and make modifications to two husker lines. Emissions from existing operations are currently limited through a Federally Enforceable State Operating Permit (FESOP). Monsanto proposes to maintain emissions below Title V thresholds by limiting grain throughput, natural gas combustion and hours of operation for Shellers 1, 2 & 3. Based on limited grain throughput, the controlled particulate matter (PM) and particulate matter less than 10 microns in diameter (PM10) emissions from modification will be modified from current allowed emission rates to 200,000 tons per year of wet ear corn for the corn receiving, husking and dryers and 150,000 tons per year of dry shelled corn for all other equipment and 2,500 hours per year for Shellers 1, 2 & 3. The two dryer modifications will be rolled into the existing dryers' grain and natural gas throughput limits. Limited criteria emissions from drying will remain unchanged. The new limited particulate emissions from the facility will be 185.9 tpy of particulate matter, 87.1 tpy of particulate matter less than 10 microns in diameter and 36.4 tpy of particulate matter less than 2.5 microns in diameter.

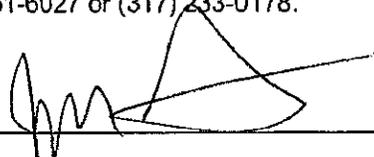
The company has submitted an application for a significant FESOP modification. The OAQ shall review the application in accordance with Indiana Permit Review Rules. Operation of the source cannot commence until a valid operating permit is issued. The construction of the proposed project is entirely at the applicant's own risk.

Notice is hereby given that there will be a period of 14 days from the date of publication of this notice during which any interested person may comment on why this interim permit should or should not be issued. Appropriate comments should be related to air quality issues, interpretation of the applicable state and federal rules, calculations made, technical issues, or the effect that the operation of this facility would have on any aggrieved individuals. A copy of the application and staff review is available for examination at the **Remington-Carpenter Township Public Library, 105 Ohio Street, Remington, Indiana, 47977**. All comments, along with supporting documentation, should be submitted in writing to the IDEM, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana 46204-2251.

Persons not wishing to comment at this time, but wishing to receive notice of future proceedings conducted related to this action, must submit a written request to the Office of Air Quality (OAQ), at the above address. All interested parties of record will receive a notice of the decision on this matter and will then have 15 days after receipt of the Notice of Decision to file a petition for administrative review. Procedures for filing such a petition will be enclosed with the Notice.

Questions should be directed to OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 or (317) 233-0178.

Company Official's Signature:



Company Official's Name:

John Sturges, Site Manager

Company Name:

Monsanto Company

December 5, 2012

IDEM Air Permits Administration
ATTN: Incoming Application
100 North Senate Avenue
MC 61-53, IGCN 1003
Indianapolis, IN 46204-2251

Re: Monsanto Company
Remington, Indiana (Jasper County)
FESOP 073-30542-00035
FESOP Modification Application

Dear IDEM Air Permits Administration:

Monsanto Company (Monsanto) operates a facility at 15849 South Highway US 231 in Remington, Indiana (Jasper County) under the provisions of a Federally Enforceable State Operating Permit (FESOP 073-30542-00035). Monsanto is proposing to expand the facility by modifying Dry 5 and Dry 6 and Huskers 1 & 2, add several new emission units including a new Sheller 3, 80 new bulk storage bins, two new sheller aspirators, a new debagger, a new dust bin, a new shelled corn loadout operation and four loadout bins, shelled corn receiving, four new cob bins and insignificant activities at its Remington facility. The modifications are described below.

Modifications at the Facility

Monsanto is proposing to make the following modifications at this facility:

1. Two huskers will be modified to have an additional husking bed. Husker 1 and Husker 2, which each consist of 7 husking beds constructed in 1976, modified in 1995, 2007, 2008 and 2013 exhausting to general ventilation, capacity: 2,000 bushels (112,000 pounds) of ear corn per hour for each line and each husker.
2. Two (2) natural gas-fired bin dryers will be modified. Two (2) natural gas-fired bin dryers identified as Dry 5 and Dry 6, approved for construction in 2008 and 2009 and approved for modification in 2013, exhausting to Stack Dry 5 and Stack Dry 6, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour (Drying rate and heat input recalculated for 28 bins), each equipped with twenty eight (28) storage bins, identified as Dry 5 and Dry 6 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
3. One corn sheller will be added to the facility exhausting to a new baghouse. One (1) corn sheller, identified as Sheller #3, approved for construction in 2013, exhausting to a baghouse for particulate control, identified as CE15c, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
4. Two new sheller aspirators will be added to the facility (Sheller Aspirator 3 & 4), they will vent to a new baghouse along with the existing aspirators. The new description will be the following: Four (4) aspirators, identified as Sheller Aspirator 1, Sheller Aspirator 2, Sheller Aspirator 3 and Sheller Aspirator 4 approved

for construction in 2009 and 2013, exhausting to a baghouse for particulate control, identified as CE16 capacity 2,500 bushels (140,000 pounds) of corn per hour, each.

5. The storage bins will be renumbered. There are 12 bins that will be removed from the facility and 80 new bins will be added. The new description of the bins will be the following:

Two Hundred and forty eight (248) bulk storage bins identified as 451.01-451.31, 452.01-452.31, 453.01-453.31, 454.01-454.31, 455.01-455.31, 456.01-456.31, 457.01-457.31 and 458.01-458.31 constructed in 1999, 2007, 2008, 2009, and 2013 exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
(a) Storage bins 451.01-451.31, 454.01-454.31, 455.01-455.31, and 458.01-458.31 have a capacity of 7,500 bushels (420,000 pounds) each.
(b) Storage bins 452.01-452.31, 453.01-453.31, 456.01-456.31, and 457.01-457.31 have a capacity of 5,000 bushels (280,000 pounds) each.
6. The shelled corn loadout constructed in 1976 will be demolished and a new shelled corn loadout operation will be added. One (1) shelled corn loadout operation identified as Shelled Corn Loadout approved for construction in 2013 with a maximum capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34r (House Dust System).
7. The 6 loadout bins will be replaced with 4 shelled corn loadout bins. Four (4) shelled corn loadout bins identified as 31.830, 31.840, 31.850 and 31.860 approved for construction in 2013 with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust System). Each bin has a capacity of 2,580 bushels (144,480 Lbs).
8. Four new cob bins will be installed. Four (4) cob bins identified as 31.810, 31.820, 31.870, and 31.880 approved for construction in 2013. Each has a capacity of 2,832 cubic feet (48,144 pounds) and is utilized for cob loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
9. One new dust bin will be installed. One (1) dust bin identified as 31.900 approved for construction in 2013 with a capacity of 3,000 cubic feet (60,000 pounds) and utilized for dust loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
10. One shelled corn receiving operation will be installed. One (1) shelled corn receiving operation identified as Shelled Corn Receiving approved for construction in 2013 with a capacity of 5,000 bushels per hour (280,000 pounds) exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
11. One debagger will be added to the facility on the small lot system. The description of the small lot bagging system will be changed to the following: One (1) small lot bagging operation, constructed in 2005, approved for modification in 2013 consisting of a debagger identified EU106, the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit 2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: 1000 bushels (56,000 pounds) per hour, total.
12. The following insignificant activities will be added to the Permit:
(a) One Central Vacuum system identified as Tower Central Vac for general clean up.
(b) One Central Vacuum system identified as Sheller Central Vac for general clean up.
(c) One husk chopper identified as Husk Chopper, with a capacity of 500 bushels per hour (28,000 pounds per hour); and
(d) Internal Handling operations.
13. Calculations indicate that baghouses identified as Red Dust Collector, CE34, CE35, CE14, White Dust Collector 1 & 2, and Gravity Table Dust Collectors 1-16 do not have to be operated in order for the associated emission units to comply with 326 IAC 6-3-2.

Revisions to the equipment descriptions provided in Section A of the permit are provided as Attachment A. Application forms describing this equipment and calculations are provided in Attachment B.

Potential Emissions and FESOP Limits

Uncontrolled potential emissions from the new and modified emission units are summarized in Attachment B. New grain throughput limits have been proposed to assure that potential PM-10 emissions do not exceed major source thresholds. The facility wide grain limits are now classified into wet ear corn and dry shelled corn. Wet ear corn is processed through the corn receivers, huskers, dryers and husk chopper; dry shelled corn is processed through all other equipment. There are no modifications to the natural gas limits for the dryers. Additionally, Shellers 1, 2 & 3 have a new proposed hourly operating limit of 2,500 hours per year.

The proposed limits are:

| <u>Emission Unit</u> | <u>Proposed Limit</u> |
|-------------------------------------|--|
| Corn Receiving #1, #2, #3 & #4 | 200,000 tons per year (wet ear) |
| Husking #1, #2, #3 & #4 | 200,000 tons per year (wet ear) |
| Dry 1, 2, 3, 4, 5 & 6 (grain) | 200,000 tons per year (wet ear) |
| Dry 1, 2, 3, 4, 5 & 6 (natural gas) | 1,126.9 mmcf per year (no change) |
| Sheller Aspirators #1, #2, #3 & #4 | 150,000 tons per year (dry shelled corn) |
| Bulk Storage Bins | 150,000 tons per year (dry shelled corn) |
| Shelled Corn Loadout | 150,000 tons per year (dry shelled corn) |
| Shelled Corn Loadout Bins | 150,000 tons per year (dry shelled corn) |
| Four Cob Bins | 150,000 tons per year (dry shelled corn) |

| | |
|-----------------------------------|--|
| Dust Bin 31.900 | 150,000 tons per year (dry shelled corn) |
| Shelled Corn Receiving | 150,000 tons per year (dry shelled corn) |
| Storage Bins 1 & 2 | 150,000 tons per year (dry shelled corn) |
| Treating & Packaging Storage Bins | 150,000 tons per year (dry shelled corn) |
| Bagging Machine EU12 | 150,000 tons per year (dry shelled corn) |
| Small Lot Bagging (EU102-104) | 150,000 tons per year (dry shelled corn) |
| Internal handling | 150,000 tons per year (dry shelled corn) |
| Shellers 1, 2, & 3 | 2,500 hours per year each |

Regulated and Unregulated Dust Collectors

Monsanto requests that certain dust collectors be regulated at the facility. These include baghouses for:

- Sheller 1 (Baghouse CE15a),
- Sheller 2 (Baghouse CE15b),
- Sheller 3 (Baghouse CE15c), and
- Sheller Aspirators (Baghouse CE16).

All other dust collectors at the facility are not required to meet the emission limit contained in 326 IAC 6-3-2. These include the following:

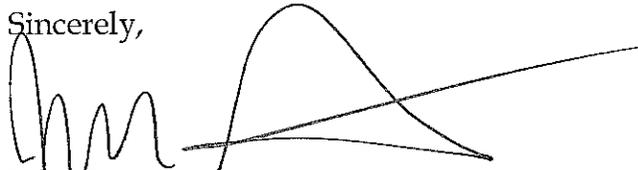
- Red Dust Collector for the main bagging and treating systems,
- CE-34 House Dust Collector,

- CE-35 Harvest Dust Collector System,
- CE14 for the Small Lot System,
- White Dust Collectors 1 & 2 for the Cleaners, Sizers and Sorters, and
- Gravity Table Dust Collectors 1-16

Monsanto requests that the permit not include requirements to operate these collectors. Potential emissions for these units are computed taking into account enforceable throughputs limits but do not take into account controls from these dust collectors.

If you or your staff need any additional information regarding this request, please contact me at (219) 261-2122 or Mr. David Jordan of ERM at (317) 706-2006.

Sincerely,



John Sturges
Site Manager

Attachment A - Equipment Description Changes
Attachment B - Permit Application and Calculations

cc: Teri Merial, Monsanto Company
David Jordan, ERM

ATTACHMENT A

Equipment Description Changes

Proposed Revisions to the Equipment List in Section A

(a) Husking and Receiving,

(1) Two (2) receiving lines, identified as Corn Receiving 1 and Corn Receiving 2, consisting of two (2) huskers, identified as Husker 1 and Husker 2, which each consist of six (6 7) husking beds, constructed in 1976, modified in 1995, 2007, and 2008, **and 2013** exhausting to general ventilation, capacity: 2,000 bushels (112,000 pounds) of ear corn per hour for each line and each husker.

(2) Two (2) corn receiving lines identified as Corn Receiving 3 and Corn Receiving 4, consisting of two (2) huskers, identified as Husker 3 and Husker 4, which each consist of seven (7) husking beds, constructed in 2007 and modified in 2008 exhausting to general ventilation, capacity: 2,000 bushels (112,000 pounds) of ear corn per hour for each line and each husker.

(b) Drying

(1) Two (2) natural gas-fired bin dryers, identified as Dry 1 and Dry 2, exhausting to Stacks Dry 1 and Dry 2, constructed in 1976, with heat input capacities of sixty (60) million British thermal units per hour, each, and a dry rate of 20,238 bushels per batch (500 bushels (28,000 pounds) per hour, each).

(2) Two (2) natural gas-fired bin dryer, identified as Dry 3 and Dry 4, approved for construction in 2007 and 2008, exhausting to Stack Dry 3 and Dry 4, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, equipped with eighteen (18) storage bins each, identified as Dry 3 Bins and Dry 4 Bins, used for drying with a capacity of 2,000 bushels (152,000 pounds), each.

(3) Two (2) natural gas-fired bin dryers identified as Dry 5 and Dry 6, approved for construction in 2008 and 2009 and approved for modification in 2013, exhausting to Stack Dry 5 and Stack Dry 6, with a drying rate of 778 bushels (43,568 pounds) per hour and a heat input capacity of 252 million British thermal units per hour (28 burner x 9 mmBtu/burner), each equipped with twenty eight (28) storage bins, identified as Dry 5 and Dry 6 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.

~~(2) One (1) natural gas-fired bin dryer, identified as Dry 3, constructed in 2007, exhausting to Stack Dry 3, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, equipped with eighteen (18) storage bins, identified as Dry 3 Bins, used for drying with a capacity of 2,000 bushels (152,000 pounds), each.~~

~~(3) Two (2) natural gas-fired bin dryers identified as Dry 4 and Dry 5, constructed in 2007, exhausting to Stack Dry 4 and Stack Dry 5, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour, each equipped with eighteen (18) storage bins, identified as Dry 4 and Dry 5 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.~~

~~(4) One (1) natural gas-fired grain dryer, identified as Dry 6, constructed in 2008, exhausting to Stack Dry 6, with a drying rate of 500 bushels (28,000) per hour and a heat input capacity of 160 million British thermal units per hour, equipped with eighteen (18) storage bins, identified as Dry 6 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.~~

(c) Shelling/Bulk Storage

(1) One (1) corn sheller, identified as Sheller 1, constructed in 2007, exhausting to a baghouse for particulate control, identified as CE15a, capacity: 2,500 bushels (140,000 pounds) of corn per hour.

Attachment A

(2) One (1) corn sheller, identified as Sheller 2, constructed in 2007, exhausting to a baghouse for particulate control, identified as CE15b, capacity: 2,500 bushels (140,000 pounds) of corn per hour.

(3) One (1) corn sheller, identified as Sheller #3, approved for construction in 2013, exhausting to a baghouse for particulate control, identified as CE15c, capacity: 2,500 bushels (140,000 pounds) of corn per hour.

~~(3 4) Two (2)~~ **Four (4)** aspirators, identified as Sheller Aspirator 1, Sheller Aspirator 2, **Sheller Aspirator 3 and Sheller Aspirator 4** approved for construction in 2009 **and 2013**, exhausting to a baghouse for particulate control, identified as ~~CE-35 (Harvest Dust System)~~, **CE16** capacity 2,500 bushels (140,000 pounds) of corn per hour, each.

(4 5) Two Hundred and forty eight (248) identified as **451.01-451.31, 452.01-452.31, 453.01-453.31, 454.01-454.31, 455.01-455.31, 456.01-456.31, 457.01-457.31 and 458.01-458.31** constructed in 1999, 2007, 2008, 2009, and 2013 exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).

(a) Storage bins 451.01-451.31, 454.01-454.31, 455.01-455.31, and 458.01-458.31 have a capacity of 7,500 bushels (420,000 pounds) each.

(b) Storage bins 452.01-452.31, 453.01-453.31, 456.01-456.31, and 457.01-457.31 have a capacity of 5,000 bushels (280,000 pounds) each.

~~One hundred eighty (180) bulk storage bins, constructed in 1999, 2007, and 2009, with a total capacity of 1,198,000 bushels (67,088,000 lbs) and a total throughput of 1000 bushels (56,000 lbs) per hour:~~

~~(A) Eight (8) bulk storage bins identified as 9.01-9.04 and 9.09-9.12 with a capacity of 11,000 bushels (616,000 lbs) each.~~

~~(B) Four (4) bulk storage bins identified as 9.05-9.08 with a capacity of 15,000 bushels (840,000 lbs) each.~~

~~(C) Eighty four (84) bulk storage bins identified as 1.01-1.31, 4.01-4.31, 5.01-5.11 and 8.01-8.11 with a capacity of 7500 bushels (420,000 lbs) each.~~

~~(D) Eighty four (84) bulk storage bins identified as 2.01-2.31, 3.01-3.31, 6.01-6.11 and 7.01-7.11 with a capacity of 5000 bushels (280,000 lbs) each.~~

(5 6) One (1) shelled corn loadout operation identified as Shelled Corn Loadout approved for construction in 2013 with a maximum capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34r (House Dust System).

~~One (1) shelled corn loadout operation, identified as Shelled Corn Loadout, constructed in 1976, with a maximum capacity of 56,000 pounds per hour of shelled corn loaded to trucks, utilizing no control devices.~~

(6 7) Four (4) shelled corn loadout bins identified as 31.830, 31.840, 31.850 and 31.860 approved for construction in 2013 with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust System). Each bin has a capacity of 2,580 bushels (144,480 Lbs). ~~Six (6) loadout bins, identified as Loadout Bins 1 through 4, and Loadout Bins 5 and 6, constructed in 2009, throughput: 1,000 bushels per hour. Loadout Bins 1 through 4 have a capacity of 1,000 bushels (56,000 pounds) each, and Loadout Bins 5 and 6 have a capacity of 1,000 bushels (56,000 pounds) each.~~

(8) Four (4) cob bins identified as 31.810, 31.820, 31.870, and 31.880 approved for construction in 2013. Each has a capacity of 2,832 cubic feet (48,144 pounds) and are utilized for cob loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).

Attachment A

(9) One (1) dust bin identified as 31.900 approved for construction in 2013 and has a capacity of 3,000 cubic feet (60,000 pounds) and is utilized for dust loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).

(10) One (1) shelled corn receiving identified as Shelled Corn Receiving approved for construction in 2013 with a capacity of 5,000 bushels per hour (280,000 pounds) exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).

(11) One Central Vacuum system identified as Sheller Central Vac for general clean up.

(d) Conditioning

(1) One Tower Reclaim conveyor grain handling system with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust System).

(2 4) Two (2) cleaners, identified as Cleaner Line 1 and Cleaner Line 2, constructed in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector 1 and White Dust Collector 2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.

(3 2) Two (2) sorters, identified as Sorter Line 1 and Sorter Line 2, constructed in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector 1 and White Dust Collector 2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.

(4 3) Two (2) sizers, identified as Sizer Line 1 and Sizer Line 2, constructed in 2007, exhausting to two (2) baghouses for particulate control, identified as White Dust Collector 1 and White Dust Collector 2, capacity: 500 bushels (28,000 pounds) of shelled corn per hour, each.

(5 4) Sixteen (16) gravity tables, identified as Gravity Tables Line 1 and Gravity Tables Line 2, constructed in 2007, equipped with sixteen (16) dust collectors for particulate control, identified as Gravity Table Dust Collectors 1 through 16, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.

(6 5) Twenty-four (24) storage bins, identified as Storage Bins Lines 1 and Storage Bins Line 2, constructed in 2007, throughput capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.

(e) Treating/Packaging

(1) Three (3) aspirators, identified as Aspirator 1 through 3, constructed in 2007, exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,500 bushels (84,000 pounds) of shelled corn per hour, total.

(2) One (1) treater, identified as Treater 3, constructed in 1994, modified in 2005, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: 500 bushels (28,000 pounds) of shelled corn per hour.

(3) Two (2) treaters, identified as Treater 1 and 2, constructed in 2007, exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.

(4) Twelve (12) storage bins, identified as Treating and Packing Storage Bins 1 through 12, constructed in 2007, each exhausting to a baghouse, identified as Red Dust Collector, capacity: 1,000 bushels (56,000 pounds) of shelled corn per hour, total.

(5) One (1) bagging machine, identified as EU12, constructed in 1994, modified in 2005, equipped with a baghouse for particulate control, identified as Red Dust Collector, capacity: : **2,400 bushels per hour (134,400 pounds) of seed corn per hour.**

Attachment A

(6) One (1) seed pak filler, identified as Seed Pak Filler, approved for construction in 2010, with a maximum capacity of **1,500 bushels per hour** (84,000 pounds) per hour, with particulate emissions vented to baghouse CE14.

(7) One (1) refuge scale, identified as Refuge Scale 1, constructed in 2010, with a maximum capacity of **270 bushels per hour** (15,120 pounds) per hour, with particulate emissions vented to Red Dust Collector.

(8) One (1) refuge scale, identified as Refuge Scale 2, constructed in 2010, with a maximum capacity of **270 bushels per hour** (15,120 pounds) per hour, with particulate emissions vented to baghouse CE14.

(9) One (1) seed corn debagger, identified as EU34, constructed in 2002, exhausting to a baghouse, identified as Red Dust Collector, maximum throughput: 1,000 bushels (56,000 pounds) of seed corn per hour.

(10) One (1) small lot bagging operation, constructed in 2005, **approved for modification in 2013** consisting of a **debagger identified as small lot debagger EU106**, the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit 2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: **1,000 3,559 bushels (56,000 498,800 pounds) per hour, total.**

(11) One Central Vacuum system identified as Tower Central Vac for general clean up.

(12) Internal Handling operations.

~~Baghouse CE34 is utilized to control house dust and a loadout point, this baghouse operates at the facility for industrial hygiene purposes.~~

Calculations indicate that the baghouses, identified as the Red Dust Collector, CE14, CE34, CE35, White Dust Collectors 1 & 2 and Gravity Table Dust Collectors 1-16 do not have to be operated in order for the associated emission units to comply with 326 IAC 6-3-2.

ATTACHMENT B

Permit Application and Calculations

GSD-01 (Continued)

Part O: New or Modified Emission Units

| 75. Emission Unit ID | 76. New | 77. Modified | 78. Type of Emission Unit | 79. Estimated Dates | | |
|---|---------|--------------|--|---------------------|-----------------------|-----------------|
| | | | | Begin Construction | Complete Construction | Begin Operation |
| EU106 Debagger | X | | New Small Lot Debagger | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Dust Bin 31.900 | X | | New Dust Bin | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| (4) Shelled Corn Loadout Bins 31.830 31.840 31.850 31.860 | X | | Four new loadout bins | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Shelled Corn Loadout | X | | Shelled Corn Loadout – throughput change | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Shelled Corn Receiving | X | | Shelled Corn Receiving | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| (4) Cob Bins 31.810 31.820 31.870 31.880 | X | | (4) Cob Bins | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Huskers #1 & #2 | | X | One additional husker bed at line #1 and #2 will be added. Throughput will remain unchanged. | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Insignificant Activities | | | | | | |
| Internal Handling | | X | Internal Handling | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Husk Chopper | | | Husk Chopper | Not Applicable | Not Applicable | 1976 |
| Sheller Central Vac | X | | Sheller Central Vac for housekeeping purposes and pick-up points | 1/1/2013 | 8/1/2013 | 8/1/2013 |
| Tower Central Vac | X | | Tower Central Vac for housekeeping purposes and pick-up points | 1/1/2013 | 8/1/2013 | 8/1/2013 |



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. <input checked="" type="checkbox"/> Building Location and Dimensions | | |
| 2. <input checked="" type="checkbox"/> Property Lines and Access-Limiting Features | | |
| 3. <input checked="" type="checkbox"/> Surrounding Building Location and Dimensions | | |
| 4. <input checked="" type="checkbox"/> Distances to Property Lines and Access-Limiting Features | | |
| 5. <input checked="" type="checkbox"/> UTM Location Coordinates | 6. <input checked="" type="checkbox"/> Compass (pointing North) | 7. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> Exhaust Stacks | | |
| 9. <input checked="" type="checkbox"/> Process Vents | | |
| 10. <input type="checkbox"/> Roof Monitors | <input checked="" type="checkbox"/> No Roof Monitors | |
| 11. <input checked="" type="checkbox"/> Control Devices | <input type="checkbox"/> No Control Devices | |
| 12. <input type="checkbox"/> Interior Vents | <input type="checkbox"/> No Interior Vents | <input type="checkbox"/> Doors and Windows (<i>for processes vented inside a building</i>) |

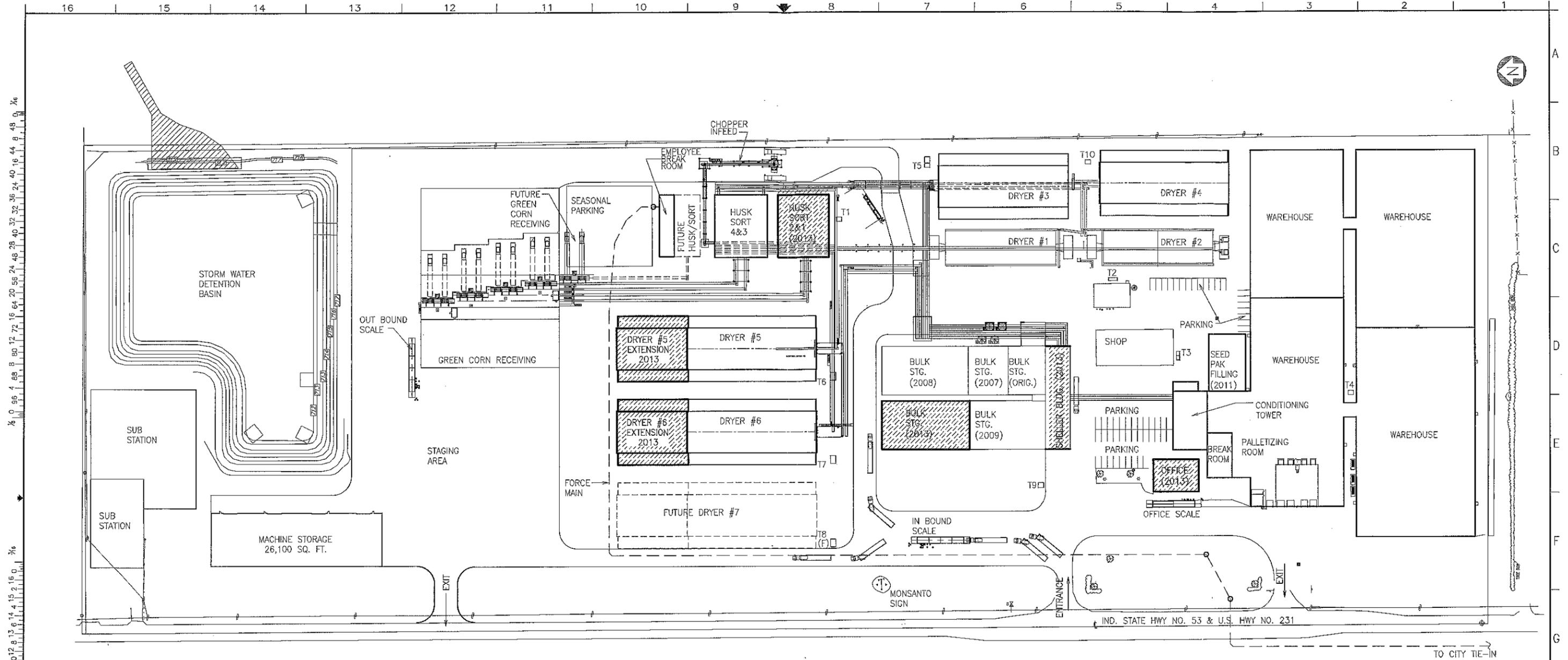
Part C: Roadway Information

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. <input checked="" type="checkbox"/> Adjacent Roadways | | <input checked="" type="checkbox"/> Interior Roadways |
| 14. <input checked="" type="checkbox"/> Roadway Surface Description (gravel, dirt, paved, etc.) | | |
| 15. <input checked="" type="checkbox"/> Number of Lanes | | |

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.



SCALING RULES
 1/8" = 10' 0"
 1/4" = 20' 0"
 3/8" = 30' 0"
 1/2" = 40' 0"
 5/8" = 50' 0"
 3/4" = 60' 0"
 7/8" = 70' 0"
 1" = 80' 0"
 1 1/8" = 90' 0"
 1 1/4" = 100' 0"
 1 3/8" = 110' 0"
 1 1/2" = 120' 0"
 1 5/8" = 130' 0"
 1 3/4" = 140' 0"
 1 7/8" = 150' 0"
 2" = 160' 0"
 2 1/8" = 170' 0"
 2 1/4" = 180' 0"
 2 3/8" = 190' 0"
 2 1/2" = 200' 0"
 2 5/8" = 210' 0"
 2 3/4" = 220' 0"
 2 7/8" = 230' 0"
 3" = 240' 0"
 3 1/8" = 250' 0"
 3 1/4" = 260' 0"
 3 3/8" = 270' 0"
 3 1/2" = 280' 0"
 3 5/8" = 290' 0"
 3 3/4" = 300' 0"
 3 7/8" = 310' 0"
 4" = 320' 0"
 4 1/8" = 330' 0"
 4 1/4" = 340' 0"
 4 3/8" = 350' 0"
 4 1/2" = 360' 0"
 4 5/8" = 370' 0"
 4 3/4" = 380' 0"
 4 7/8" = 390' 0"
 5" = 400' 0"
 5 1/8" = 410' 0"
 5 1/4" = 420' 0"
 5 3/8" = 430' 0"
 5 1/2" = 440' 0"
 5 5/8" = 450' 0"
 5 3/4" = 460' 0"
 5 7/8" = 470' 0"
 6" = 480' 0"
 6 1/8" = 490' 0"
 6 1/4" = 500' 0"
 6 3/8" = 510' 0"
 6 1/2" = 520' 0"
 6 5/8" = 530' 0"
 6 3/4" = 540' 0"
 6 7/8" = 550' 0"
 7" = 560' 0"
 7 1/8" = 570' 0"
 7 1/4" = 580' 0"
 7 3/8" = 590' 0"
 7 1/2" = 600' 0"
 7 5/8" = 610' 0"
 7 3/4" = 620' 0"
 7 7/8" = 630' 0"
 8" = 640' 0"
 8 1/8" = 650' 0"
 8 1/4" = 660' 0"
 8 3/8" = 670' 0"
 8 1/2" = 680' 0"
 8 5/8" = 690' 0"
 8 3/4" = 700' 0"
 8 7/8" = 710' 0"
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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.

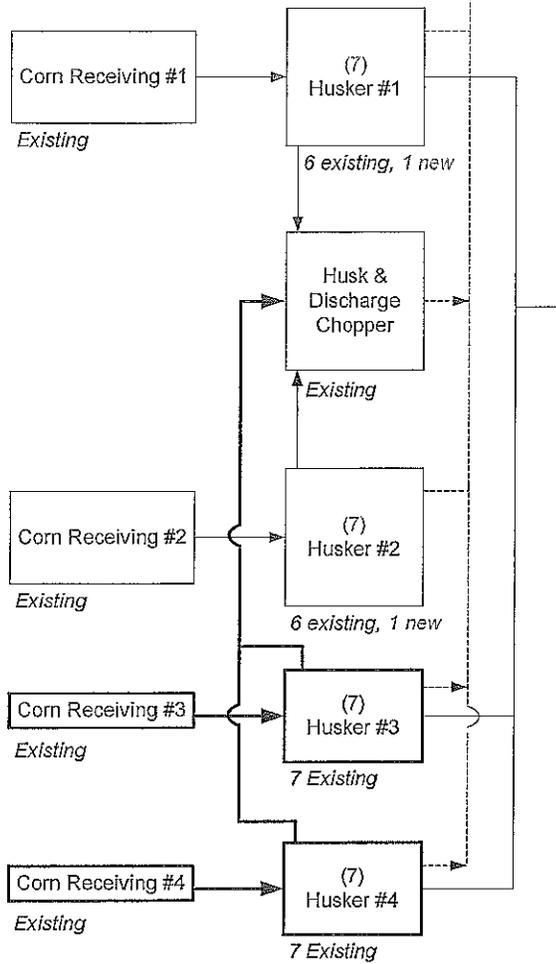
| Part A: Process Flow Diagram | | | |
|--|--|----------------------------|--|
| Part A provides basic information to understanding the nature of the process. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (<i>All throughputs should be given in pounds per hour.</i>): | | | |
| 1. | <input checked="" type="checkbox"/> Process Description: | Corn Seed Processing Plant | |
| 2. | <input checked="" type="checkbox"/> Process Equipment | 3. | <input checked="" type="checkbox"/> Raw Material Input |
| | | 4. | <input checked="" type="checkbox"/> Process Throughput |
| 5. | <input checked="" type="checkbox"/> Additions <input type="checkbox"/> Deletions <input checked="" type="checkbox"/> Modifications | | |
| 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. (<i>If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.</i>) | | | |
| See attached descriptions. | | | |

| Part B: Process Operation Schedule | | | |
|--|--|------------------------|--|
| Part B indicates the actual (or estimated actual) hours of operation for the process. | | | |
| 6. | <input checked="" type="checkbox"/> Process Operation Schedule <u>24</u> | Hours per Day <u>7</u> | Days per Week <u>52</u> 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. (<i>If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.</i>) | | |
| The facility operates most of the receiving, husking/sorting, and drying during the fall harvest season. | | | |

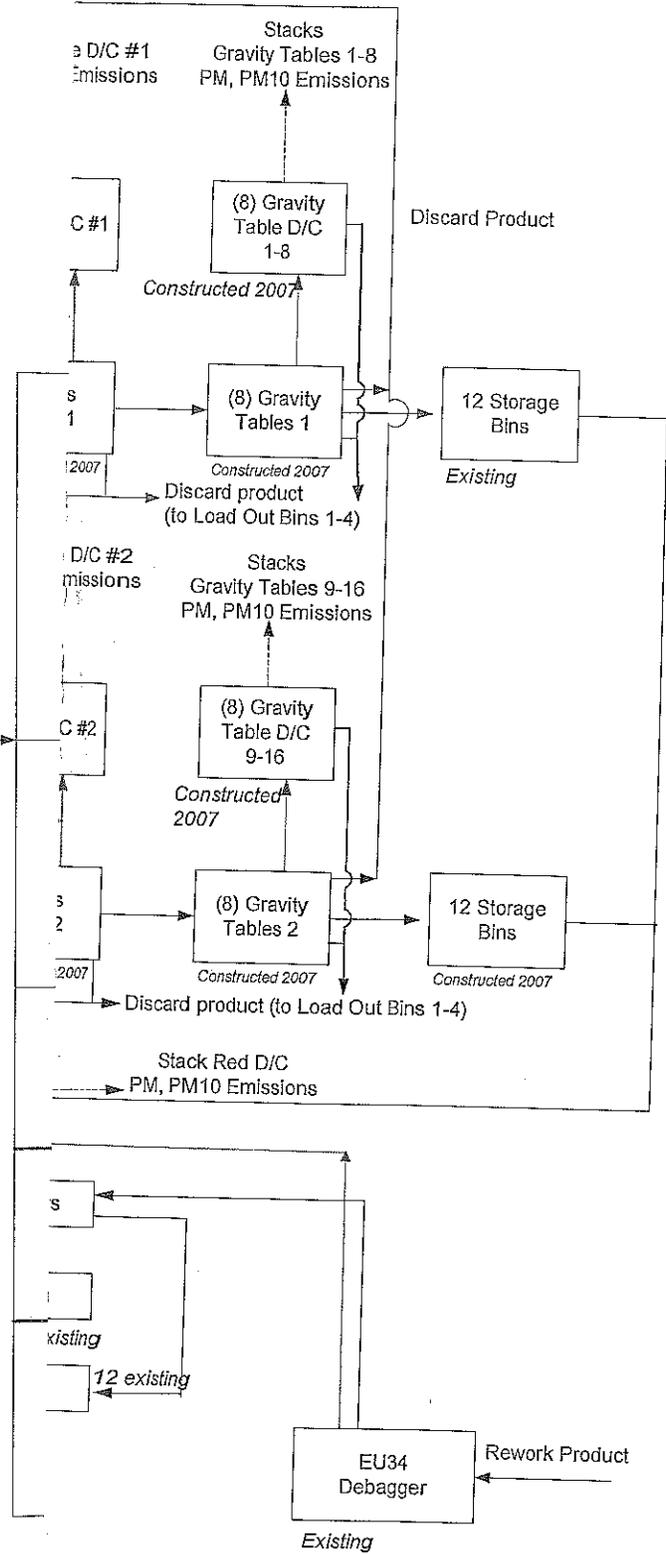
| Part C: Emissions Point Information | |
|--|--|
| Part C provides information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (<i>All throughputs should be given in pounds per hour.</i>): | |
| 8. | <input checked="" type="checkbox"/> Stack / Vent Information |
| 9. | <input checked="" type="checkbox"/> Pollutants Emitted |
| 10. | <input checked="" type="checkbox"/> Air Pollution Control |

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.



Fugitive emissions (insignificant)



Red lines vent to a control device,
Dashed lines exhaust to the atmosphere, and
Green lines are all proposed.



go to a Cob
vent to a Dust
control point.



Process Flow Diagram
Monsanto Company
Remington, Indiana
FESOP Permit Modification
2013 Expansion



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 |
|---------------------------|-----------------|------------------|---|-----------------|----------------------|----------------------|--------------------|
| Dry 5 | Not Available | Not Available | Modified Dryer 5 storage bins and natural gas throughput | Not Available | 1/1/2013 | 252.00 mmbtu/hr | Dry 5 |
| Dry 6 | Not Available | Not Available | Modified Dryer 6 storage bins and natural gas throughput | Not Available | 1/1/2013 | 252.00 mmbtu/hr | Dry 6 |
| Shelling 3 | TBD | TBD | New Sheller 3 | TBD | 1/1/2013 | 2500.00 bu/hr | CE-15c |
| Storage Bins | TBD | TBD | 80 new storage bins | TBD | 1/1/2013 | | Bin Vents |
| Sheller Aspirator 3&4 | TBD | TBD | New Sheller Aspirator 3 & 4 | TBD | 1/1/2013 | 2500.00 bu/hr each | CE-16 |
| EU106 Debagger | TBD | TBD | New EU106 Debagger | TBD | 1/1/2013 | 1000.00 bu/hr | CE-14 |
| 31,900 Dust Bin | TBD | TBD | New Dust Bin, 31,900 | TBD | 1/1/2013 | 3000.00 cubic feet | CE-35 |
| Shelled Corn Loadout Bins | TBD | TBD | New (4) Shelled Corn Loadout Bins, 31,830, 31,840, 31,850, 31,860 | TBD | 1/1/2013 | 2580.00 bushels each | CE-34R |
| Shelled Corn Loadout | TBD | TBD | New Shelled Corn Loadout | TBD | 1/1/2013 | 2500.00 bu/hr | CE-34R |

| | | | | | | | |
|------------------------|-----|-----|--|-----|----------|--------------------------|---------------------|
| Shelled Corn Receiving | TBD | TBD | New Shelled Corn Receiving | TBD | 1/1/2013 | 5000.00 bu/hr | CE-35 |
| Cob Bins | TBD | TBD | Four (4) cob bins identified as 31.810, 31.820, 31.870, 31.880 | TBD | 1/1/2013 | 2832.00 cubic feet each | CE-35 |
| Husker 1 & 2 | TBD | TBD | Modified the original huskers to have 1 new husk bed for a total of seven husk bed on each husker. | TBD | 1/1/2013 | 2000.00 bushel s/hr each | General ventilation |
| Internal Handling | TBD | TBD | Internal Handling | TBD | 1/1/2013 | 150000.00 tpy | General ventilation |
| Husk Chopper | TBD | TBD | Husk Chopper | TBD | 1/1/1976 | 28000.00 lb/hr | General ventilation |
| Sheller Central Vac | TBD | TBD | Sheller Central Vacuum System for housekeeping | TBD | 1/1/2013 | 400.00 scfm | General ventilation |
| Tower Central Vac | TBD | TBD | Tower Central Vacuum System for housekeeping | TBD | 1/1/2013 | 440.00 scfm | General ventilation |

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 |
|------------------------|---|---------------------------------|---|
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |
| | <input type="checkbox"/> No Control <input type="checkbox"/> Dust Suppression <input type="checkbox"/> Other: _____ | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date Submitted: _____ |

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) | | | | |
| Lead (Pb) | | | | |
| Nitrogen Oxides (NO _x) | | | | |
| Particulate Matter (PM) | | | | |
| Particulate Matter less than 10µm (PM ₁₀) | | | | |
| Particulate Matter less than 2.5µm (PM _{2.5}) | | | | |
| Sulfur Dioxide (SO ₂) | | | | |
| Volatile Organic Compounds (VOC) | | | | |
| 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 | | | | |
| Open-Ended Lines | | | | |
| Pressure Relief Seals | | | | |
| Pump Seals | | | | |
| Sampling Connections | | | | |
| Valves | | | | |
| Other (specify): | | | | |

Appendix A: Emissions Calculations
Processing - Unlimited Potential to Emit of New Equipment and Modified

Company Name: **Monsanto Company**
 Source Address: **15849 S US Hwy 231, Remington, IN 47977**

Facility Throughput (Wet Ear Corn) =

| | |
|---------|------------|
| 200,000 | tons/year* |
| 150,000 | tons/year* |

 Facility Throughput Limit (dry shelled corn) =

Unlimited Potential to Emit

| Emission Unit | Unlimited Capacity (lbs/hr) | Unlimited Capacity (tons/hr) | Unlimited Capacity (tons/year) | Pollutant | Emission Factor | Units | Source of EF (date published) | PM (TPY) | PM-10 (TPY) | PM-2.5 (TPY) | SOx (TPY) | NOx (TPY) | VOC (TPY) | CO (TPY) |
|---|-----------------------------|------------------------------|--------------------------------|--|---------------------------------------|--|--|----------|-------------|--------------|-----------|-----------|-----------|----------|
| Dryers 5&6 (Grain Drying) Before Modification | 28,000 lbs/hr each | 14 tons/hr each | 245,280 tons/yr Total | PM | 0.47 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | 57.84 | 14.72 | 2.45 | | | | |
| Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 180 mmBtu/hr Each | 0.157 mmcf/hr each | 2,748 mmcf/year Total | PM10 PM2.5 SOx NOx VOC CO | 7.6 7.6 0.6 100 5.5 84 | lb/rmmcf lb/rmmcf lb/rmmcf lb/rmmcf lb/rmmcf lb/rmmcf | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP 42, Tables 1.4-2 AP 42, Tables 1.4-2 AP 42, Tables 1.4-2 AP 42, Tables 1.4-1 AP 42, Tables 1.4-2 AP 42, Tables 1.4-1 | 2.61 | 10.44 | 10.44 | 0.82 | 137.41 | 7.56 | 115.43 |
| Dryers 5&6 (Grain Drying) After Modification | 43,568 lbs/hr each | 22 tons/hr each | 381,656 tons/yr Total | PM | 0.47 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | 69.69 | 22.90 | 3.82 | | | | |
| Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 252 mmBtu/hr Each | 0.247 mmcf/hr each | 4,328 mmcf/year Total | PM10 PM2.5 SOx NOx VOC CO | 1.9 7.6 0.6 100 5.5 84 | lb/rmmcf lb/rmmcf lb/rmmcf lb/rmmcf lb/rmmcf lb/rmmcf | AP-42 Table 9.9.1-1 (3/03) AP 42, Tables 1.4-2 AP 42, Tables 1.4-2 AP 42, Tables 1.4-2 AP 42, Tables 1.4-1 AP 42, Tables 1.4-2 AP 42, Tables 1.4-1 | 4.11 | 16.45 | 16.45 | 1.30 | 216.42 | 11.90 | 181.80 |
| Increase in Potential Emissions for Dryer 5 & 6 grain drying | | | | | | | | 32.05 | 8.18 | 1.36 | | | | |
| Increase in Potential Emissions for Dryer 5 & 6 natural gas | | | | | | | | 1.50 | 6.00 | 6.00 | | | | |
| No Change in the maximum uncontrolled Potential Emissions for Sheller 1 (change in air flow rate) | | | | | | | | | | | | | | |
| No Change in the maximum uncontrolled Potential Emissions for Sheller 2 (change in air flow rate) | | | | | | | | | | | | | | |
| Sheller 3 | 140,000 lbs/hr | 70 tons/hr | 150,000 tons/yr Limit* | PM | 0.375 | lbs/ton | Engineering Estimate | 28.13 | 17.16 | 17.16 | | | | |
| Baghouse CE15c Flow Rate (cfm) 14,880 | 280,000 lbs/hr total | 140 tons/hr total | 150,000 tons/yr Limit* | PM10 PM2.5 | 0.22875 0.22875 | lbs/ton | Engineering Estimate | 4.53 | 2.55 | 0.44 | | | | |
| Sheller Aspirators 3 & 4 (1,228,400 tons/year) | 56,000 lbs/hr each | 28 tons/hr each | 150,000 tons/yr Limit* | PM1 PM2.5 | 0.051 0.0084 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.06 | | | | |
| 80 New Bulk Storage Bins SCC 3-02-005-40 | 140,000 lbs/hr | 70 tons/hr | 150,000 tons/yr Limit* | PM1 PM10 PM2.5 | 0.025 0.0063 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| 4 Shelled Corn Loadout Bins | 48,144 lbs/hr each | 24 tons/hr each | 150,000 tons/yr Limit* | PM1 PM10 PM2.5 | 0.025 0.0063 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| 2,580 bushels capacity each SCC 3-02-005-40 | 60,000 lbs/hr | 30 tons/hr | 150,000 tons/yr Limit* | PM1 PM10 PM2.5 | 0.025 0.0063 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| 4 Cob Loadout Bins (31,810, 31,820, 31,870, 31,880) SCC 3-02-005-40 | 60,000 lbs/hr | 30 tons/hr | 150,000 tons/yr Limit* | PM1 PM10 PM2.5 | 0.025 0.0063 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| Dust Bin (31,9100) | | | | | | | | | | | | | | |

| Emission Unit | Unlimited Capacity (lbs/hr) | Unlimited Capacity (tons/hr) | Unlimited Capacity (tons/year) | Pollutant | Emission Factor | Units | Source of EF (date published) | PM (TPY) | PM-10 (TPY) | PM2.5 (TPY) | SOx (TPY) | NOx (TPY) | VOC (TPY) | CO (TPY) |
|---|-----------------------------|------------------------------|--------------------------------|-------------------|-----------------|---------|-------------------------------|--------------|--------------|-------------|--------------|-------------|--------------|----------|
| Shelled Corn Receiving SCC 3-02-005-52 | 280,000 lbs/hr | 140 tons/hr | 150,000 tons/yr Limit* | PM ^{2.5} | 0.035 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | 2.63 | 0.59 | 0.10 | | | | |
| | | | | PM10 | 0.0078 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| | | | | PM2.5 | 0.0013 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| Debagger EU106 | 56,000 lbs/hr | 28 tons/hr | 150,000 tons/yr Limit* | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 | | | | |
| | | | | PM10 | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| | | | | PM2.5 | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| Internal Handling | 34,247 lb/hr | 17.1 tons/hr total | 150,000 tons/yr Limit* | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 | | | | |
| | | | | PM10 | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| | | | | PM2.5 | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| Husk Chopper (existing) Only 25% of grain received goes through the chopper | 28,000 lbs/hr | 14 tons/hr | 50,000 tons/yr Limit* | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | 1.53 | 0.85 | 0.15 | | | | |
| | | | | PM10 | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| | | | | PM2.5 | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | | | |
| Sheller Central Vacuum System 10" Hg | 400 scfm | | | PM | 0.03 | gr/dscf | Engineering Estimate | 0.45 | 0.45 | 0.45 | | | | |
| | | | | PM10 | 0.03 | gr/dscf | Engineering Estimate | | | | | | | |
| | | | | PM2.5 | 0.03 | gr/dscf | Engineering Estimate | | | | | | | |
| Tower Central Vacuum System 11" Hg | 440 scfm | | | PM | 0.03 | gr/dscf | Engineering Estimate | 0.50 | 0.50 | 0.50 | | | | |
| | | | | PM10 | 0.03 | gr/dscf | Engineering Estimate | | | | | | | |
| | | | | PM2.5 | 0.03 | gr/dscf | Engineering Estimate | | | | | | | |
| Total Emissions | | | | | | | 88.00 | 43.26 | 27.35 | 0.47 | 79.01 | 4.35 | 66.37 | |

Notes

*Facility throughput limit

1. Assumes all bins are controlled by a bin vent.
2. Assumes grain receiving is done by hopper truck.

Appendix A: Emissions Calculations
Processing - Unlimited

Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977

Conditioning Tower Annual Bottleneck = 245,280 tons/year*

| Emission Unit | Unlimited Capacity (lbs/hr) | Unlimited Capacity (tons/hr) | Unlimited Capacity (tons/year) | Pollutant | Emission Factor | Units | Source of EF (date published) | PM (TPY) | PM-10 (TPY) | PM-2.5 (TPY) | 328 IAC 6-9-2 Allowable PM Emission Rate (lbs/hr) |
|--|-----------------------------|------------------------------|--------------------------------|---------------------------------------|------------------|--------------------|--|----------|-------------|--------------|---|
| Com. Receiving 1, 2, 3, & 4 SCC 3-02-005-52 | 112,000 each | 56 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.0075 0.0078 | lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.29 | 0.98 | 0.16 | 46.64 each |
| Husking 1, 2, 3, & 4 SCC 3-02-005-30 | 112,000 each | 56 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 46.64 each |
| Dryers 1, 2, 3 & 4 (Grain Drying) Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 28,000 each | 14 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.47 0.12 | lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 57.64 | 14.72 | 2.45 | 24.03 each |
| Dryers 5 & 6 (Grain Drying) Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 43,568 each | 22 tons/hr | 1,226,400 tons/yr | PM ¹⁰ PM ^{2.5} | 0.020 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | 32.31 each |
| Sheller 1 Baghouse CE15a Flow Rate (cfm) 14,880 | 140,000 lbs/hr | 70 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.375 0.22875 | lbs/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 70.63 |
| Sheller 2 Baghouse CE15b Flow Rate (cfm) 14,880 | 140,000 lbs/hr | 70 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.375 0.22875 | lbs/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 70.63 |
| Sheller 3 Baghouse CE15c Flow Rate (cfm) 14,880 | 140,000 lbs/hr | 70 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.375 0.22875 | lbs/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 70.63 |
| Sheller Aspirators 1 & 2 (1,226,400 tons/year) | 280,000 total | 140 total | 1,226,400 total | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 37.41 | 20.95 | 3.66 | 54.72 |
| Sheller Aspirators 3 & 4 (1,226,400 tons/year) | 280,000 total | 140 total | 1,226,400 total | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 37.41 | 20.95 | 3.66 | 54.72 |
| 248 Bulk Storage Bins SCC 3-02-005-40 | 56,000 each | 28 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.025 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 38.23 each |
| Shelled Corn Loadout (Replaced) | 140,000 total | 70 total | 613,200 total | PM ¹⁰ PM ^{2.5} | 0.086 0.029 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 26.37 | 8.69 | 1.50 | 70.63 |
| 4 Shelled Corn Loadout Bins 2,580 bushels capacity each SCC 3-02-005-40 | 140,000 total | 70 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.025 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 70.63 |
| 4 Cobb Loadout Bins (31,810, 31,820, 31,870, 31,880) SCC 3-02-005-40 | 48,144 each | 24 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.025 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 34.55 |
| Dust Bin (31,9100) SCC 3-02-005-37 | 60,000 lbs/hr | 30 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.025 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 40.04 |
| Shelled Corn Receiving SCC 3-02-005-52 | 280,000 lbs/hr | 140 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.035 0.0078 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.29 | 0.96 | 0.16 | 54.72 |
| Cleaners, Sorters, Sizers, Line 1 SCC 3-02-005-37 | 56,000 total | 28 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.062 0.062 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.80 | 7.60 | 7.60 | 38.23 |
| Cleaners, Sorters, Sizers, Line 2 SCC 3-02-005-37 | 56,000 total | 28 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.062 0.062 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.80 | 7.60 | 7.60 | 38.23 |
| Gravity Tables, Lines 1 & 2 SCC 3-02-005-37 (16 gravity tables) | 3,500 each | 1.75 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.375 0.22875 | lbs/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 5.97 |
| Storage Bins, Lines 1 & 2 SCC 3-02-005-40 | 56,000 total | 28 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.025 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 38.23 |
| Aspirators 1-3 | 56,000 total | 28 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.081 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.23 |
| Treaters 1-3 | 84,000 total | 42 total | 367,920 total | PM ¹⁰ PM ^{2.5} | 0.068 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 11.22 | 6.25 | 1.07 | 42.97 |
| Treading and Packing Storage Bins SCC 3-02-005-40 | 56,000 total | 28 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.025 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 38.23 |
| Bagging Machine (EU12) | 134,400 lbs/hr | 67.2 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 47.37 |
| Seed Pak Filler | 84,000 lbs/hr | 42 tons/hr | 367,920 tons/yr | PM ¹⁰ PM ^{2.5} | 0.068 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 11.22 | 6.25 | 1.07 | 42.97 |
| Refuge Scales 1 & 2 | 15,120 each | 7.56 tons/hr | 132,451 tons/yr | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.04 | 2.25 | 0.38 | 15.90 |
| Debagger EU34 | 56,000 lbs/hr | 28 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.23 |
| Small Lot Bagging (EU102-104) | 198,800 total | 99.4 total | 245,280 total | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 51.22 |
| Debagger EU106 | 56,000 lbs/hr | 28 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.23 |
| Internal Handling | 56,000 lbs/hr | 28 tons/hr | 245,280 tons/yr | PM ¹⁰ PM ^{2.5} | 0.061 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.35 |
| Dust Collector Loadouts | 17,520 total | 8.76 total | 17,520 total | PM ¹⁰ PM ^{2.5} | 0.086 0.029 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 0.75 | 0.25 | 0.04 | NA |
| Husk Chopper (existing) Only 25% of grain received goes through the chopper Sheller Central Vacuum System 10" Hg | 28,000 lbs/hr | 14 tons/hr | 61,220 tons/yr | PM ¹⁰ PM ^{2.5} | 0.051 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.97 | 1.04 | 0.18 | |
| Tower Central Vacuum System 11" Hg | 400 scfm | | | PM ¹⁰ PM ^{2.5} | 0.03 0.03 | gr/dscf gr/dscf | Engineering Estimate | 0.45 | 0.45 | 0.45 | |
| Total Emissions | | | | PM ¹⁰ PM ^{2.5} | 0.03 0.03 | gr/dscf gr/dscf | Engineering Estimate | 467.39 | 245.47 | 148.28 | |

Notes:

- *The maximum bottleneck throughput is based on the capacity of the conditioning tower (56,000 lbs/hr * ton/2000 lbs = 28 tons/hour)
- 1. Assumes grain receiving is done by hopper truck.
- 2. Emission factors for the Cleaners, Sorters, and Gravity Tables is listed in AP-42 with a cyclone for controls, therefore an 80% capture rate was assumed to back out an uncontrolled emission factor.
- 3. Assumes all bins are controlled by a bin vent.
- 4. Gravity Tables uncontrolled emissions factors from FESOP No. 073-23632-00035 (as provided by the applicant). This emission factor is also used for the Shellers.

**Appendix A: Emissions Calculations
Processing - Limited**

**Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977**

Facility Throughput (Wet Ear Corn) = $\frac{200,000}{150,000}$ tons/year*
Facility Throughput Limit (dry shelled corn) = $\frac{200,000}{150,000}$ tons/year*

Limited Potential to Emit

| Emission Unit | Limited Capacity | Pollutant | Emission Factor | Units | Source of EF (date published) | PM (TPY) | PM ₁₀ (TPY) | PM _{2.5} (TPY) |
|--|----------------------------|--|-----------------------------|-------------------------------|--|---------------|------------------------|-------------------------|
| Com Receiving 1, 2, 3, & 4 SCC 3-02-005-52 | 200,000 tons/yr total* | PM ¹ PM ₁₀ PM _{2.5} | 0.035 0.0078 0.0013 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 3.50 | 0.78 | 0.13 |
| Husking 1, 2, 3 & 4 SCC 3-02-005-30 | 200,000 tons/yr total* | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 6.10 | 3.40 | 0.58 |
| Dryers 1, 2, 3, 4, 5 & 6 (Grain Drying) Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 200,000 tons/yr total* | PM _{2.5} PM ₁₀ PM _{2.5} | 0.47 0.12 0.020 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 47.00 | 12.00 | 2.00 |
| Sheller 1 Baghouse CE15a Flow Rate (cfm) 14,880 | 150,000 tons/yr total | PM ⁴ PM ₁₀ ⁴ PM _{2.5} ⁴ | 0.375 0.22875 0.22875 | lbs/ton lbs/ton lbs/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 28.13 | 17.16 | 17.16 |
| Sheller 2 Baghouse CE15b Flow Rate (cfm) 14,880 | 150,000 tons/yr total | PM ⁴ PM ₁₀ ⁴ PM _{2.5} ⁴ | 0.375 0.22875 0.22875 | lbs/ton lbs/ton lbs/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 28.13 | 17.16 | 17.16 |
| Sheller 3 Baghouse CE15c Flow Rate (cfm) 14,880 | 150,000 tons/yr total | PM ⁴ PM ₁₀ ⁴ PM _{2.5} ⁴ | 0.375 0.22875 0.22875 | lbs/ton lbs/ton lbs/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 28.13 | 17.16 | 17.16 |
| Sheller Aspirators 1 & 2 (28 tons/hour total) | 150,000 (ton/yr) total* | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 |
| Sheller Aspirators 3 & 4 (28 tons/hour total) | 150,000 (ton/yr) total* | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 |
| 248 Bulk Storage Bins SCC 3-02-005-40 | 150,000 (ton/yr) total* | PM ⁸ PM ₁₀ PM _{2.5} | 0.025 0.0063 0.0011 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 |
| Shelled Corn Loadout (Replaced) | 150,000 tons/yr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.025 0.029 0.0049 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 6.45 | 2.18 | 0.37 |
| 4 Shelled Corn Loadout Bins 2,580 bushels capacity each SCC 3-02-005-40 | 150,000 (ton/yr) total* | PM ³ PM ₁₀ PM _{2.5} | 0.025 0.0063 0.0011 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 |
| 4 Cobb Loadout Bins (31,610, 31,820, 31,870, 31,880) SCC 3-02-005-40 | 150,000 (ton/yr) total* | PM ⁸ PM ₁₀ PM _{2.5} | 0.025 0.0063 0.0011 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 |
| Dust Bin (31,9100) | 150,000 tons/yr Limit* | PM ⁸ PM ₁₀ PM _{2.5} | 0.025 0.0063 0.0011 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 |
| Shelled Corn Receiving SCC 3-02-005-52 | 150,000 tons/yr Limit* | PM ¹ PM ₁₀ PM _{2.5} | 0.035 0.0078 0.0013 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 2.63 | 0.59 | 0.10 |
| Cleaners, Sorters, Sizers, Line 1 SCC 3-02-005-37 | 61,320 tons/yr | PM ² PM ₁₀ PM _{2.5} | 0.062 0.062 0.062 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.90 | 1.90 | 1.90 |
| 61,320 tons/year throughput limit for Line 1 | 61,320 tons/yr | PM ² PM ₁₀ PM _{2.5} | 0.062 0.062 0.062 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.90 | 1.90 | 1.90 |
| Cleaners, Sorters, Sizers, Line 2 SCC 3-02-005-37 | 61,320 tons/yr | PM ² PM ₁₀ PM _{2.5} | 0.062 0.062 0.062 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.90 | 1.90 | 1.90 |
| 61,320 tons/year throughput limit for Line 2 | 61,320 tons/yr | PM ² PM ₁₀ PM _{2.5} | 0.062 0.062 0.062 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.90 | 1.90 | 1.90 |
| Gravity Tables, Lines 1 & 2 SCC 3-02-005-37 | 122,640 tons/yr | PM ¹⁰ PM _{2.5} | 0.375 0.22875 | lbs/ton lbs/ton | Engineering Estimate Engineering Estimate | 23.00 | 14.03 | 14.03 |
| Storage Bins, Lines 1 & 2 SCC 3-02-005-40 | 150,000 (ton/yr) total* | PM ⁸ PM ₁₀ PM _{2.5} | 0.025 0.0063 0.0011 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 |
| Aspirators 1-3 | 56,000 lb/hr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 |
| Treaters 1-3 | 84,000 lb/hr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 11.22 | 6.25 | 1.07 |
| Treating and Packing Storage Bins SCC 3-02-005-40 | 150,000 (ton/yr) total* | PM ³ PM ₁₀ PM _{2.5} | 0.025 0.0063 0.0011 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.88 | 0.47 | 0.08 |
| Bagging Machine (EU12) | 150,000 tons/yr Limit* | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 |
| Seed Pak Filler | 84,000 lb/hr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 11.22 | 6.25 | 1.07 |
| Reluge Scales 1 & 2 | 132,451 tons/yr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.04 | 2.25 | 0.38 |
| Debagger EU34 | 56,000 lb/hr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 |
| Small Lot Bagging (EU102-104) | 150,000 tons/yr Limit* | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 |
| Debagger EU106 | 56,000 lb/hr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 |
| Internal Handling | 150,000 tons/yr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 4.58 | 2.55 | 0.44 |
| Dust Collector Loadouts | 17,520 tons/yr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.086 0.029 0.0049 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 0.75 | 0.25 | 0.04 |
| Husk Chopper (existing) Only 25% of grain received goes through the chopper | 50,000 lbs/hr | PM _{2.5} PM ₁₀ PM _{2.5} | 0.061 0.034 0.0058 | lbs/ton lbs/ton lbs/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | 1.53 | 0.85 | 0.15 |
| Sheller Central Vacuum System 10" Hg | 400 scfm | PM _{2.5} PM ₁₀ PM _{2.5} | 0.03 0.03 0.03 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | 0.45 | 0.45 | 0.45 |
| Tower Central Vacuum System 11" Hg | 440 scfm | PM _{2.5} PM ₁₀ PM _{2.5} | 0.03 0.03 0.03 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | 0.50 | 0.50 | 0.50 |
| Total Emissions | | | | | | 263.12 | 133.14 | 80.93 |

Notes:

- *The maximum bottleneck throughput is based on the capacity of the conditioning tower (56,000 lbs/hour * ton/2000 lbs = 28 tons/hour)
- 1. Assumes grain receiving is done by hopper truck.
- 2. Emission factors for the Cleaners, Sorters, and Gravity Tables is listed in AP-42 with a cyclone for controls; therefore an 80% capture rate was assumed to back out an uncontrolled emission factor.
- 3. Assumes all bins are controlled by a bin vent.
- 4. Gravity Tables uncontrolled emissions factors from FESOP No. 073-23632-00035 (as provided by the applicant). This emission factor is also used for the Shellers.

Appendix A: Emissions Calculations
Processing - Limited/Controlled

Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977

Facility Throughput (Wet Ear Corn) = 200,000 tons/year*
Facility Throughput Limit (dry shelled corn) = 150,000 tons/year*
3,809,524 bushels (wet ear corn)
5,357,143 bushels (dry shelled corn)

Limited/Controlled Potential to Emit

| Emission Unit | Limited Capacity | Pollutant | Emission Factor or Limit | Units | Source of EF (date published) | Control Device | Control Eff. | PM (TPY) | PM-10 (TPY) | PM2.5 (TPY) |
|---|-------------------|-------------------|--------------------------|---------|-------------------------------|---|--------------|---------------|--------------|--------------|
| Corn Receiving 1, 2, 3, & 4 | 200,000 tons/yr | PM ¹⁰ | 0.0035 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 3.50 | 0.78 | 0.13 |
| SCC 3-02-005-02 | total* | PM ¹⁰ | 0.0078 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 0.00% | | | |
| | total* | PM ^{2.5} | 0.0013 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 0.00% | | | |
| Husking 1, 2, 3 & 4 | 200,000 tons/yr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 6.10 | 3.40 | 0.58 |
| SCC 3-02-005-30 | total* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 0.00% | | | |
| | total* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 0.00% | | | |
| Driers 1, 2, 3, 4, 5 & 6 (Grain Drying) | 200,000 tons/yr | PM | 0.47 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 47.00 | 12.00 | 2.00 |
| Rack Dryer - Self Cleaning Screens | total* | PM ¹⁰ | 0.12 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 0.00% | | | |
| SCC 3-02-005-27 | total* | PM ^{2.5} | 0.020 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 0.00% | | | |
| Sheller 1 | 140,000 lbs/hr | PM | 0.006 | gr/dscf | Engineering Estimate | Baghouse CE15a (Sheller 1) | N/A | 0.96 | 0.96 | 0.96 |
| Baghouse CE15a Flow Rate (cfm) | 2,500 hrs limit** | PM ¹⁰ | 0.006 | gr/dscf | Engineering Estimate | | N/A | | | |
| | hrs limit** | PM ^{2.5} | 0.006 | gr/dscf | Engineering Estimate | | N/A | | | |
| Sheller 2 | 140,000 lbs/hr | PM | 0.006 | gr/dscf | Engineering Estimate | Baghouse CE15b (Sheller 2) | N/A | 0.96 | 0.96 | 0.96 |
| Baghouse CE15b Flow Rate (cfm) | 2,500 hrs limit** | PM ¹⁰ | 0.006 | gr/dscf | Engineering Estimate | | N/A | | | |
| | hrs limit** | PM ^{2.5} | 0.006 | gr/dscf | Engineering Estimate | | N/A | | | |
| Sheller 3 | 140,000 lbs/hr | PM | 0.006 | gr/dscf | Engineering Estimate | Baghouse CE15c (Sheller 3) | N/A | 0.96 | 0.96 | 0.96 |
| Baghouse CE15c Flow Rate (cfm) | 2,500 hrs limit** | PM ¹⁰ | 0.006 | gr/dscf | Engineering Estimate | | N/A | | | |
| | hrs limit** | PM ^{2.5} | 0.006 | gr/dscf | Engineering Estimate | | N/A | | | |
| Sheller Aspirators 1 & 2 (28 tons/hour total) | 150,000 (ton/yr) | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Baghouse CE16 | 99.00% | 0.05 | 0.03 | 0.00 |
| | total* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Regulated Dust Collector | 99.00% | | | |
| | total* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 99.00% | | | |
| Sheller Aspirators 3 & 4 (28 tons/hour total) | 150,000 (ton/yr) | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Baghouse CE16 | 99.00% | 0.05 | 0.03 | 0.00 |
| | total* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Regulated Dust Collector | 99.00% | | | |
| | total* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | 99.00% | | | |
| 248 Bulk Storage Bins | 150,000 (ton/yr) | PM ³ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | CE-35 | 0.00% | 1.88 | 0.47 | 0.08 |
| SCC 3-02-005-40 | total* | PM ¹⁰ | 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | total* | PM ^{2.5} | 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Shelled Corn Loadout (Replaced) | 150,000 tons/yr | PM ⁶ | 0.086 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | CE-34 | 0.00% | 6.45 | 2.18 | 0.37 |
| | Limit* | PM ¹⁰ | 0.029 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0049 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| 4 Shelled Corn Loadout Bins | 150,000 (ton/yr) | PM ³ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | CE-35 | 0.00% | 1.88 | 0.47 | 0.08 |
| 2,580 bushels capacity each | total* | PM ¹⁰ | 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| SCC 3-02-005-40 | total* | PM ^{2.5} | 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| 4 Cob Loadout Bins (31,810, 31,820, 31,870, 31,880) | 150,000 (ton/yr) | PM ⁶ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | CE-35 | 0.00% | 1.88 | 0.47 | 0.08 |
| SCC 3-02-005-40 | total* | PM ¹⁰ | 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | total* | PM ^{2.5} | 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Dust Bin (31,9100) | 150,000 tons/yr | PM ³ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | CE-34 | 0.00% | 1.88 | 0.47 | 0.08 |
| SCC 3-02-005-40 | Limit* | PM ¹⁰ | 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Shelled Corn Receiving | 150,000 tons/yr | PM ¹⁰ | 0.0078 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 1 | 0.00% | 1.90 | 1.90 | 1.90 |
| SCC 3-02-005-52 | Limit* | PM ¹⁰ | 0.0078 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0013 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Cleaners, Sorters, Sizers, Line 1 | 61,320 tons/yr | PM | 0.062 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 2 | 0.00% | 1.90 | 1.90 | 1.90 |
| SCC 3-02-005-37 | total* | PM ¹⁰ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| 61,320 tons/year throughput limit for Line 1 | total* | PM ^{2.5} | 0.002 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Cleaners, Sorters, Sizers, Line 2 | 61,320 tons/yr | PM | 0.062 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 2 | 0.00% | 1.90 | 1.90 | 1.90 |
| SCC 3-02-005-37 | total* | PM ¹⁰ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| 61,320 tons/year throughput limit for Line 2 | total* | PM ^{2.5} | 0.002 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Gravity Tables, Lines 1 & 2 | 122,640 tons/yr | PM | 0.375 | lbs/ton | Engineering Estimate | Dust Collectors 1 through 8 (Line 1) Dust Collectors 9 through 16 (Line 2) | 0.00% | 23.00 | 14.03 | 14.03 |
| SCC 3-02-005-37 | total* | PM ¹⁰ | 0.22875 | lbs/ton | Engineering Estimate | | 0.00% | | | |
| | total* | PM ^{2.5} | 0.022875 | lbs/ton | Engineering Estimate | | 0.00% | | | |
| Storage Bins, Lines 1 & 2 | 150,000 (ton/yr) | PM ⁶ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | White Dust Collectors 1 & 2 | 0.00% | 1.88 | 0.47 | 0.08 |
| SCC 3-02-005-40 | total* | PM ¹⁰ | 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | total* | PM ^{2.5} | 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Aspirators 1-3 | 56,000 lb/hr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 7.48 | 4.17 | 0.71 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Treaters 1-3 | 84,000 lb/hr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 11.22 | 6.25 | 1.07 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Treating and Packing Storage Bins | 150,000 (ton/yr) | PM ³ | 0.025 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 1.88 | 0.47 | 0.083 |
| SCC 3-02-005-40 | total* | PM ¹⁰ | 0.0063 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | total* | PM ^{2.5} | 0.0011 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Bagging Machine (EU12) | 150,000 tons/yr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 4.58 | 2.55 | 0.435 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Seed Pak Filler | 84,000 lb/hr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Baghouse CE34 | 0.00% | 11.22 | 6.25 | 1.07 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Refuge Scales 1 & 2 | 132,451 tons/yr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector (Refuse Scale 1) Baghouse CE14 (Refuse Scale 2) | 0.00% | 4.04 | 2.25 | 0.384 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Debagger EU34 | 56,000 lb/hr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 7.48 | 4.17 | 0.71 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Small Lot Bagging (EU102-104) | 150,000 tons/yr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 4.58 | 2.55 | 0.435 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Debagger EU106 | 56,000 lb/hr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector | 0.00% | 7.48 | 4.17 | 0.71 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Internal Handling | 150,000 tons/yr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | CE-34 | 0.00% | 4.58 | 2.55 | 0.435 |
| | Limit* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Unregulated Dust Collector | 0.00% | | | |
| | Limit* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | Assume 0% Control Efficiency | 0.00% | | | |
| Dust Collector Loadouts | 17,520 tons/yr | PM | 0.086 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | none | | 0.75 | 0.25 | 0.043 |
| | Limit* | PM ¹⁰ | 0.029 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | |
| | Limit* | PM ^{2.5} | 0.0049 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | |
| Husk Chopper (existing) | 50,000 lbs/hr | PM | 0.061 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | none | | 1.53 | 0.65 | 0.15 |
| Only 25% of grain received goes through the chopper | total* | PM ¹⁰ | 0.034 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | |
| | total* | PM ^{2.5} | 0.0058 | lbs/ton | AP-42 Table 9.9.1-1 (3/03) | | | | | |
| Sheller Central Vacuum System | 400 scfm | PM | 0.03 | gr/dscf | Engineering Estimate | none | | 0.45 | 0.45 | 0.45 |
| 10" Hg | Limit* | PM ¹⁰ | 0.03 | gr/dscf | Engineering Estimate | | | | | |
| | Limit* | PM ^{2.5} | 0.03 | gr/dscf | Engineering Estimate | | | | | |
| Tower Central Vacuum System | 440 scfm | PM | 0.03 | gr/dscf | Engineering Estimate | none | | 0.50 | 0.50 | 0.50 |
| 11" Hg | Limit* | PM ¹⁰ | 0.03 | gr/dscf | Engineering Estimate | | | | | |
| | Limit* | PM ^{2.5} | 0.03 | gr/dscf | Engineering Estimate | | | | | |
| Total Emissions | | | | | | | | 172.56 | 79.49 | 31.47 |

Notes:

- *Facility throughput limit
- ** Shellers 1, 2 & 3 have an hourly limit of 2,500 hours

**Appendix A: Emissions Calculations
Emissions From Seed Coating Operations
Treater 1, 2, 3 and CBT 100**

Company Name: **Monsanto Company**
Source Address: **15849 S US Hwy 231, Remington, IN 47977**

Conditioning Tower Limit = 150,000 tons/year*

Unlimited

| Material | Density (lb/gal) | VOC Content (lb VOC /gallon of coating) | Gallons of Mat. (gal/ton of seed) | Maximum (tons seed/yr) | Potential VOC (tpy) | Glycol Ether Content (%) | HAP Emissions (tpy) |
|------------------|------------------|---|-----------------------------------|------------------------|---------------------|--------------------------|---------------------|
| Apron XL LS | 9.3 | 6.32 | 0.00656 | 150,000 | 3.109 | 1.00% | 0.03 |
| Poncho Medium** | 10.6 | 1.80 | 0.35313 | 0 | 0.000 | 0% | 0.0 |
| Poncho High | 10.6 | 1.80 | 1.96870 | 150,000 | 265.775 | 0% | 0.0 |
| Precise Medium** | 10.5 | 2.94 | 0.31250 | 0 | 0.000 | 0% | 0.0 |
| Precise High | 10.5 | 2.94 | 0.46870 | 150,000 | 103.348 | 0% | 0.0 |
| MaximXL | 9.2 | 0.55 | 0.02625 | 150,000 | 1.083 | 12.00% | 0.13 |
| Red Colorant** | 9.9 | 0.18 | 0.03906 | 0 | 0.000 | 0% | 0.0 |
| Green Colorant** | 11 | 0.20 | 0.04688 | 0 | 0.000 | 0% | 0.0 |
| Blue Colorant | 9.9 | 0.18 | 0.07813 | 150,000 | 1.055 | 0% | 0.0 |
| Seed Gloss | 10.1 | 0.00 | 0.00000 | 150,000 | 0.000 | 0% | 0.0 |
| Dynasty | 8.673 | 0.52 | 0.02206 | 150,000 | 0.861 | 0% | 0.0 |
| Trilex | 9.1 | 1.82 | 0.08791 | 150,000 | 12.000 | 0% | 0.0 |
| Total | | | | | 387.23 | | 0.16 |

*The maximum bottleneck throughput is based on the capacity of the conditioning tower (56,000 lbs/hour * ton/2000 lbs = 28 tons/hour)

**Throughputs for certain materials set at 0 since these would not represent the maximum potential emissions for these chemicals

Limited

| Unit ID | VOC Limit (tons/year) |
|---------------|-----------------------|
| Treater 1 | 25.0 |
| Treater 2 | 25.0 |
| Treater 3 | 25.0 |
| CBT 100 | 15.0 |
| Totals | 90.0 |

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Unlimited Potential to Emit
Dryers 1, 2, 3, 4, 5, 6

Company Name: Monsanto Company
 Source Address: 15849 S US Hwy 231, Remington, IN 47977

| Unit ID | Unlimited Heat Input Capacity MMBtu/hr | | HHV mmBtu mmscf | Unlimited Throughput MMCF/yr |
|--------------|--|-----------------------------------|-----------------|------------------------------|
| Dryer 1 | 60 | (4 burners @ 15 MMBtu/hr each) | 1000 | 8269.4 |
| Dryer 2 | 60 | (4 burners @ 15 MMBtu/hr each) | | |
| Dryer 3 | 160 | (18 burners @ 8.89 MMBtu/hr each) | | |
| Dryer 4 | 160 | (18 burners @ 8.89 MMBtu/hr each) | | |
| Dryer 5 | 252 | (28 burners @ 8.89 MMBtu/hr each) | | |
| Dryer 6 | 252 | (28 burners @ 8.89 MMBtu/hr each) | | |
| Total | 944.0 | | | |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|------|-------------|-------|--------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 | VOC | CO |
| | 1.9 | 7.6 | 7.6 | 0.6 | **see below | 5.5 | 84 |
| Potential Emission in tons/yr | 7.86 | 31.42 | 31.42 | 2.48 | 413.47 | 22.74 | 347.32 |

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|---------|-----------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 8.683E-03 | 4.982E-03 | 3.101E-01 | 7.442 | 1.406E-02 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|-----------|-----------|-----------|-----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 2.067E-03 | 4.548E-03 | 5.789E-03 | 1.571E-03 | 8.683E-03 |

Total HAP's = 7.80

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

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|-----|-----|
| | CO2 | CH4 | N2O |
| | 120,000 | 2.3 | 2.2 |
| Potential Emission in tons/yr | 496,166 | 9.5 | 9.1 |
| Summed Potential Emissions in tons/yr | 496,185 | | |
| CO2e Total in tons/yr | 499,186 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low NOx burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Limited Potential to Emit
Dryers 1, 2, 3, 4, 5, 6**

Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977

| |
|--|
| Limited Throughput MMCF/yr 1,126.90 |
|--|

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-----------------------------|-----------|-------|---------------|------|---------------------------|------|-------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 **see below | VOC | CO |
| Limited Emission in tons/yr | 1.07 | 4.28 | 4.28 | 0.34 | 56.35 | 3.10 | 47.33 |

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

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| | Benzene 2.1E-03 | Dichlorobenzene 1.2E-03 | Formaldehyde 7.5E-02 | Hexane 1.8E+00 | Toluene 3.4E-03 |
| Potential Emission in tons/yr | 1.183E-03 | 6.761E-04 | 4.226E-02 | 1.014 | 1.916E-03 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|-----------------|--------------------|---------------------|----------------------|-------------------|
| | Lead 5.0E-04 | Cadmium 1.1E-03 | Chromium 1.4E-03 | Manganese 3.8E-04 | Nickel 2.1E-03 |
| Potential Emission in tons/yr | 2.817E-04 | 6.198E-04 | 7.888E-04 | 2.141E-04 | 1.183E-03 |

Total HAP's = 1.06

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

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|------------|------------|
| | CO2 120,000 | CH4 2.3 | N2O 2.2 |
| Potential Emission in tons/yr | 67,614 | 1.3 | 1.2 |
| Summed Potential Emissions in tons/yr | 67,617 | | |
| CO2e Total in tons/yr | 68,025 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations
Natural Gas Combustion
Heater Data**

Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977

| | Maximum Heat Input Capacity (Btu/hr) | Maximum Heat Output Capacity (Btu/hr) |
|---------------------------|--|---|
| Shop 1-Forced Air | 225,000 | 182,300 |
| Shop 2-Forced Air | 125,000 | 100,000 |
| Shop 3-Forced Air | 125,000 | 100,000 |
| Battery Area-Radiant | 125,000 | N/A |
| Small Lot Line 1-Radiant | 125,000 | N/A |
| Small Lot Line 2-Radiant | 125,000 | N/A |
| Palletizer 1-Radiant | 300,000 | N/A |
| Palletizer 2-Radiant | 250,000 | N/A |
| Bagger 1-Radiant | 40,000 | N/A |
| Bagger 2-Radiant | 60,000 | N/A |
| Bagger 3-Radiant | 80,000 | N/A |
| Seed Pak Filler 1-Radiant | 40,000 | N/A |
| Seed Pak Filler 2-Radiant | 60,000 | N/A |
| Seed Pak Filler 3-Radiant | 60,000 | N/A |
| Seed Pak Filler 4-Radiant | 60,000 | N/A |
| New Office HVAC 1 | 50,000 | N/A |
| New Office HVAC 2 | 50,000 | N/A |
| | 1,900,000 | Btu/hr |
| | 1.90 | MMBtu/hr |

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HEATERS**

**Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977**

| | | |
|---------------------------------|-----------------------|---------------------------------|
| Heat Input Capacity MMBtu/hr | HHV mmBtu mmscf | Potential Throughput MMCF/yr |
| 1.9 | 1000 | 16.6 |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|------|---------------------------|------|------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 **see below | VOC | CO |
| Potential Emission in tons/yr | 0.02 | 0.06 | 0.06 | 0.00 | 0.83 | 0.05 | 0.70 |

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

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|---------|-----------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Potential Emission in tons/yr | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 1.748E-05 | 9.988E-06 | 6.242E-04 | 0.015 | 2.829E-05 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|-----------|-----------|-----------|-----------|
| | Lead | Cadmium | Chromium | Manganes | Nickel |
| Potential Emission in tons/yr | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 4.161E-06 | 9.154E-06 | 1.165E-05 | 3.162E-06 | 1.748E-05 |
| Total HAP's | | | | | 0.016 |

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

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|-----|-----|
| | CO2 | CH4 | N2O |
| Potential Emission in tons/yr | 120,000 | 2.3 | 2.2 |
| Potential Emission in tons/yr | 999 | 0.0 | 0.0 |
| Summed Potential Emissions in tons/yr | 999 | | |
| CO2e Total in tons/yr | 1,005 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).



**OAQ GENERAL SOURCE DATA APPLICATION
GSD-10: Insignificant Activities**

State Form 51598 (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 form is to identify all trivial and insignificant activities in operation at 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: Trivial Activities (Optional)

Part A identifies all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). **Please use this table as a checklist.** Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Trivial Activity | Citation (326 IAC) |
|---------|--|--------------------|
| | 1. Any activity or emission unit: | 2-7-1(40)(A) |
| | <input type="checkbox"/> not regulated by a NESHAP, with potential uncontrolled emissions are equal to or less than one (1) pound per day on an emission unit basis for any single HAP or combination of HAPs; and | |
| | <input type="checkbox"/> for which the potential uncontrolled emissions meet the exemption levels specified in the following: | |
| | <input type="checkbox"/> For lead and lead compounds measured as elemental lead (Pb), potential uncontrolled emissions that are equal to or less than one (1) pound per day | |
| | <input type="checkbox"/> For carbon monoxide (CO), potential uncontrolled emissions that are equal to or less than one (1) pound per day | |
| | <input type="checkbox"/> For sulfur dioxide (SO ₂), potential uncontrolled emissions that are equal to or less than one (1) pound per day | |
| | <input type="checkbox"/> For volatile organic compounds (VOC), potential uncontrolled emissions that are equal to or less than one (1) pound per day | |
| | <input type="checkbox"/> For nitrogen oxides (NO _x), potential uncontrolled emissions that are equal to or less than one (1) pound per day | |
| | <input type="checkbox"/> For particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers (PM ₁₀), potential uncontrolled emissions that are equal to or less than one (1) pound per day | |
| | 2. Water related activities including: | 2-7-1(40)(B) |
| | <input type="checkbox"/> Production of hot water for on-site personal use not related to any industrial or production process | |
| | <input type="checkbox"/> Water treatment activities used to provide potable and process water for the plant, excluding any activities associated with wastewater treatment | |
| | <input type="checkbox"/> Steam traps, vents, leaks and safety relief valves | |
| | <input type="checkbox"/> Cooling ponds | |
| | <input type="checkbox"/> Laundry operations using only water solutions of bleach or detergents | |
| | <input type="checkbox"/> Demineralized water tanks and demineralizer vents | |
| | <input type="checkbox"/> Boiler water treatment operations, not including cooling towers | |
| | <input type="checkbox"/> Oxygen scavenging (de-aeration) of water | |
| | <input type="checkbox"/> Steam cleaning operations and steam sterilizers | |
| | <input type="checkbox"/> Pressure washing of equipment | |
| | <input type="checkbox"/> Water jet cutting operations | |

Part A: Trivial Activities (continued)

Part A identifies all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). Please use this table as a checklist. Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Trivial Activity | Citation (326 IAC) |
|---------|--|--------------------|
| | 3. Combustion activities including the following: | 2-7-1(40)(C) |
| | <input type="checkbox"/> Portable electrical generators that can be moved by hand from one location to another. "Moved by hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device | |
| | <input type="checkbox"/> Combustion emissions from propulsion of mobile sources | |
| | <input type="checkbox"/> Fuel use related to food preparation for on-site consumption | |
| | <input type="checkbox"/> Tobacco smoking rooms and areas | |
| | <input type="checkbox"/> Blacksmith forges | |
| | <input type="checkbox"/> Indoor and outdoor kerosene heaters | |
| | 4. Activities related to ventilation, venting equipment and refrigeration, including the following: | 2-7-1(40)(D) |
| | <input type="checkbox"/> Ventilation exhaust, central chiller water systems, refrigeration and air conditioning equipment, not related to any industrial or production process, including natural draft hoods or ventilating systems that do not remove air pollutants | |
| | <input type="checkbox"/> Stack and vents from plumbing traps used to prevent the discharge of sewer gases, handling domestic sewage only, excluding those at wastewater treatment plants or those handling any industrial waste | |
| | <input type="checkbox"/> Vents from continuous emissions monitors and other analyzers | |
| | <input type="checkbox"/> Natural gas pressure regulator vents, excluding venting at oil and gas production facilities | |
| | <input type="checkbox"/> Air vents from air compressors | |
| | <input type="checkbox"/> Vents for air cooling of electric motors provided the air does not commingle with regulated air pollutants | |
| | <input type="checkbox"/> Vents from equipment used to air blow water from cooled plastics strands or sheets | |
| | 5. Activities related to routine fabrication, maintenance and repair of buildings, structures, equipment or vehicles at the source where air emissions from those activities would not be associated with any commercial production process including the following: | 2-7-1(40)(E) |
| | <input type="checkbox"/> Activities associated with the repair and maintenance of paved and unpaved roads, including paving or sealing, or both, of parking lots and roadways | |
| | <input type="checkbox"/> Painting, including interior and exterior painting of buildings, and solvent use, excluding degreasing operations utilizing halogenated organic solvents | |
| | <input type="checkbox"/> Brazing, soldering, or welding operations and associated equipment | |
| | <input type="checkbox"/> Portable blast-cleaning equipment with enclosures | |
| | <input type="checkbox"/> Blast-cleaning equipment using water as the suspension agent and associated equipment | |
| | <input type="checkbox"/> Batteries and battery charging stations, except at battery manufacturing plants | |
| | <input type="checkbox"/> Lubrication, including hand-held spray can lubrication, dipping metal parts into lubricating oil, and manual or automated addition of cutting oil in machining operations | |
| | <input type="checkbox"/> Non-asbestos insulation installation or removal | |
| | <input type="checkbox"/> Tarring, retarring and repair of building roofs | |
| | <input type="checkbox"/> Bead blasting of heater tubes | |
| | <input type="checkbox"/> Instrument air dryer and filter maintenance | |
| | <input type="checkbox"/> Manual tank gauging | |
| | <input type="checkbox"/> Open tumblers associated with deburring operations in maintenance shops | |

Part A: Trivial Activities (continued)

Part A is intended to identify all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). **Please use this table as a checklist.** Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Trivial Activity | Citation (326 IAC) |
|--|--|--------------------|
| | 6. Activities performed using hand-held equipment including the following: | 2-7-1(40)(F) |
| | <input type="checkbox"/> Application of hot melt adhesives with no VOC in the adhesive formulation <input type="checkbox"/> Cutting, excluding cutting torches <input type="checkbox"/> Buffing <input type="checkbox"/> Grinding <input type="checkbox"/> Sanding <input type="checkbox"/> Machining wood, metal, or plastic <input type="checkbox"/> Carving <input type="checkbox"/> Polishing <input type="checkbox"/> Sawing <input type="checkbox"/> Turning wood, metal, or plastic <input type="checkbox"/> Drilling <input type="checkbox"/> Routing <input type="checkbox"/> Surface grinding | |
| | 7. Housekeeping and janitorial activities and supplies including the following: | 2-7-1(40)(G) |
| Tower Central Vac Sheller Central Vac | <input checked="" type="checkbox"/> Vacuum cleaning systems used exclusively for housekeeping or custodial activities, or both | |
| | <input type="checkbox"/> Steam cleaning activities | |
| | <input type="checkbox"/> Rest rooms and associated cleanup operations and supplies | |
| | <input type="checkbox"/> Alkaline or phosphate cleaners and associated equipment | |
| | <input type="checkbox"/> Mobile floor sweepers and floor scrubbers | |
| | <input type="checkbox"/> Pest control fumigation | |
| | 8. Office related activities including the following: | 2-7-1(40)(H) |
| | <input type="checkbox"/> Office supplies and equipment | |
| | <input type="checkbox"/> Photocopying equipment and associated supplies | |
| | <input type="checkbox"/> Paper shredding | |
| | <input type="checkbox"/> Blueprint machines, photographic equipment, and associated supplies | |
| | 9. Lawn care and landscape maintenance activities and equipment, including the storage, spraying or application of insecticides, pesticides and herbicides | 2-7-1(40)(I) |
| | 10. Storage equipment and activities including: | 2-7-1(40)(J) |
| | <input type="checkbox"/> Pressurized storage tanks and associated piping for the following: | |
| | <input type="checkbox"/> Acetylene <input type="checkbox"/> Inorganic compounds <input type="checkbox"/> Natural gas <input type="checkbox"/> Anhydrous ammonia <input type="checkbox"/> Liquid petroleum gas (LPG) <input type="checkbox"/> Nitrogen dioxide <input type="checkbox"/> Carbon Monoxide <input type="checkbox"/> Liquid natural gas (LNG) (propane) <input type="checkbox"/> Sulfur dioxide <input type="checkbox"/> Chlorine | |
| | <input type="checkbox"/> Storage tanks, vessels, and containers holding or storing liquid substances that do not contain any VOC or HAP | |
| | <input type="checkbox"/> Storage tanks, reservoirs, and pumping and handling equipment of any size containing soap, wax, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized | |
| | <input type="checkbox"/> Storage of drums containing maintenance raw materials | |
| | <input type="checkbox"/> Storage of the following: | |
| | <input type="checkbox"/> Castings | |
| | <input type="checkbox"/> Lance rods | |
| | <input type="checkbox"/> Any non-HAP containing material in solid form stored in a sealed or covered container | |

Part A: Trivial Activities (continued)

Part A is intended to identify all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). **Please use this table as a checklist.** Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Trivial Activity | Citation (326 IAC) |
|---------|--|-----------------------|
| | <input type="checkbox"/> Portable containers used for the collection, storage, or disposal of materials provided the container capacity is equal to or less than forty-six hundredths (0.46) cubic meters and the container is closed except when the material is added or removed | |

Part A: Trivial Activities (continued)

Part A identifies to identify all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). **Please use this table as a checklist.** Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Trivial Activity | Citation (326 IAC) |
|---------|---|--------------------|
| | 11. Emergency and standby equipment including: | 2-7-1(40)(K) |
| | <input type="checkbox"/> Emergency (backup) electrical generators at residential locations, such as dormitories, prisons and hospitals. | |
| | <input type="checkbox"/> Safety and emergency equipment, except engine driven fire pumps, including fire suppression systems and emergency road flares. | |
| | <input type="checkbox"/> Process safety relief devices installed solely for the purpose of minimizing injury to persons or damage to equipment which could result from abnormal process operating conditions, including the following: | |
| | <input type="checkbox"/> Explosion relief vents, diaphragms or panels <input type="checkbox"/> Rupture discs <input type="checkbox"/> Safety relief valves | |
| | <input type="checkbox"/> Activities and equipment associated with on-site medical care not otherwise specifically regulated | |
| | <input type="checkbox"/> Vacuum producing devices for the purpose of removing potential accidental releases | |
| | 12. Sampling and testing equipment and activities including the following: | 2-7-1(40)(L) |
| | <input type="checkbox"/> Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis | |
| | <input type="checkbox"/> Hydraulic and hydrostatic testing equipment | |
| | <input type="checkbox"/> Ground water monitoring wells and associated sample collection equipment | |
| | <input type="checkbox"/> Environmental chambers not using hazardous air pollutant (HAP) gases | |
| | <input type="checkbox"/> Shock chambers | |
| | <input type="checkbox"/> Humidity chambers | |
| | <input type="checkbox"/> Solar simulators | |
| | <input type="checkbox"/> Sampling activities including | |
| | <input type="checkbox"/> Sampling of waste <input type="checkbox"/> Glove box sampling, charging, and packaging | |
| | <input type="checkbox"/> Instrument air dryers and distribution | |
| | 13. Use of consumer products and equipment where the product or equipment is used at a source in the same manner as normal consumer use and is not associated with any production process | 2-7-1(40)(M) |
| | 14. Equipment and activities related to the handling, treating, and processing of animals including: | 2-7-1(40)(N) |
| | <input type="checkbox"/> Equipment used exclusively to slaughter animals, but not including the following: Rendering cookers, Boilers, Heating plants, Incinerators, and/or Electrical power generating equipment | |
| | <input type="checkbox"/> Veterinary operating rooms | |
| | 15. Activities generating limited amounts of fugitive dust including: | 2-7-1(40)(O) |
| | <input type="checkbox"/> Fugitive emissions related to movement of passenger vehicles, provided the emissions are not counted for applicability purposes under 326 IAC 2-7-1(22)(B), and any required fugitive dust control plan or its equivalent is submitted | |
| | <input type="checkbox"/> Soil boring | |
| | <input type="checkbox"/> Road salting and sanding | |

Part A: Trivial Activities (continued)

Part A identifies all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). Please use this table as a checklist. Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Trivial Activity | Citation (326 IAC) |
|---------|--|-----------------------|
| | 16. Activities associated with production including the following: | 2-7-1(40)(P) |
| | <input type="checkbox"/> Closed, non-vented, tumblers used for cleaning or deburring metal products without abrasive blasting | |
| | <input type="checkbox"/> Electrical resistance welding | |
| | <input type="checkbox"/> CO ₂ lasers, used only on metals and other materials which do not emit HAPs in the process | |
| | <input type="checkbox"/> Laser trimmers which do not produce fugitive emissions and are equipped with dust collection devices such as bag filter, cyclone, or equivalent device | |
| | <input type="checkbox"/> Application equipment for hot melt adhesives with no VOC in the adhesive formulation | |
| | <input type="checkbox"/> Drop hammers or hydraulic presses for forging or metalworking | |
| | <input type="checkbox"/> Air compressors and pneumatically operated equipment, including hand tools | |
| | <input type="checkbox"/> Compressor or pump lubrication and seal oil systems | |
| | <input type="checkbox"/> Equipment used to mix and package soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized | |
| | <input type="checkbox"/> Equipment for washing or drying fabricated glass or metal products, if no VOCs or HAPs are used in the process, and no gas, oil or solid fuel is burned | |
| | <input type="checkbox"/> Handling of solid steel, including coils and slabs, excluding scrap burning, scarfing, and charging into steel making furnaces and vessels | |
| | 17. Miscellaneous equipment, but not emissions associated with the process for which the equipment is used, and activities including the following: | 2-7-1(40)(Q) |
| | <input type="checkbox"/> Equipment used for surface coating, painting, dipping or spraying operation, except those that will emit VOCs or HAPs | |
| | <input type="checkbox"/> Condensate drains for natural gas and landfill gas | |
| | <input type="checkbox"/> Electric or steam heated drying ovens and autoclaves, including only the heating emissions and not any associated process emissions | |
| | <input type="checkbox"/> Salt baths using nonvolatile salts including caustic solutions that do not result in emissions of any regulated air pollutants | |
| | <input type="checkbox"/> Ozone generators | |
| | <input type="checkbox"/> Portable dust collectors | |
| | <input type="checkbox"/> Scrubber systems circulating water based solutions of inorganic salts or bases which are installed to be available for response to emergency situations | |
| | <input type="checkbox"/> Soil borrow pits | |
| | <input type="checkbox"/> Manual loading and unloading operations | |
| | <input type="checkbox"/> Purging of refrigeration devices using a combination of nitrogen and CFC-22 (R-22) as pressure test media | |
| | <input type="checkbox"/> Construction and demolition operations | |
| | <input type="checkbox"/> Mechanical equipment gear boxes and vents which are isolated from process materials | |
| | <input type="checkbox"/> Non-volatile mold release waxes and agents | |

Part B: Insignificant Activities

Part B identifies all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). **Please use this table as a checklist.** Indicate which activities are present by checking the appropriate box. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Insignificant Activity | Citation (326 IAC) |
|---------------------|---|--------------------|
| | 18. Combustion related activities, including the following: | 2-7-1(21)(G)(i) |
| | <input checked="" type="checkbox"/> Space heaters, process heaters; or boilers using the following fuels | |
| Office area heating | <input checked="" type="checkbox"/> Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour | |
| | <input type="checkbox"/> Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour | |
| | <input type="checkbox"/> Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths percent (0.5%) sulfur by weight | |
| | <input type="checkbox"/> Wood-fired combustion sources with heat input equal to or less than one million (1,000,000) Btu per hour and not burning wood refuse, treated wood or chemically contaminated wood | |
| | <input type="checkbox"/> Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) Btu/hour, except where total capacity of equipment operated by one stationary source exceeds two million (2,000,000) Btu/hour | |
| | <input type="checkbox"/> Combustion source flame safety purging on startup | |
| | 19. Fuel dispensing activities, including the following: | 2-7-1(21)(G)(ii) |
| | <input type="checkbox"/> A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment | |
| | <input type="checkbox"/> A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less | |
| | 20. The following VOC and HAP storage containers: | 2-7-1(21)(G)(iii) |
| | <input type="checkbox"/> Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs less than twelve thousand (12,000) gallons | |
| | <input type="checkbox"/> Vessels storing the following: | |
| | <input type="checkbox"/> Hydraulic oils <input type="checkbox"/> Lubricating oils <input type="checkbox"/> Machining oils <input type="checkbox"/> Machining fluids | |
| | 21. Refractory storage not requiring air pollution control equipment | 2-7-1(21)(G)(iv) |
| | 22. Equipment used exclusively for the following | 2-7-1(21)(G)(v) |
| | <input type="checkbox"/> Packaging the following: <input type="checkbox"/> Greases <input type="checkbox"/> Lubricants | |
| | <input type="checkbox"/> Filling drums, pails or other packaging containers with the following: | |
| | <input type="checkbox"/> Greases <input type="checkbox"/> Lubricating oils <input type="checkbox"/> Waxes | |

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Part B: Insignificant Activities (continued)

Part B identifies all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). **Please use this table as a checklist.** Indicate which activities are present by checking the appropriate box. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Insignificant Activity | Citation (326 IAC) |
|---------|---|--------------------|
| | 23. Production related activities, including the following: | 2-7-1(21)(G)(vi) |
| | <input type="checkbox"/> Application of the following as temporary protective coatings: | |
| | <input type="checkbox"/> Greases <input type="checkbox"/> Lubricants <input type="checkbox"/> Nonvolatile materials <input type="checkbox"/> Oils | |
| | <input type="checkbox"/> Machining where an aqueous cutting coolant continuously floods the machining interface | |
| | <input type="checkbox"/> Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6 | |
| | <input type="checkbox"/> Cleaners and solvents characterized as follows where the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months | |
| | <input type="checkbox"/> Having a vapor pressure equal to or less than two kilo Pascals (2.0 kPa) (fifteen millimeters of mercury (15 mm Hg) or three-tenths pound per square inch (0.3 psi)) measured at thirty-eight degrees Centigrade (38°C) (one hundred degrees Fahrenheit (100°F)) | |
| | <input type="checkbox"/> Having a vapor pressure equal to or less than seven-tenths kilo Pascals (0.7 kPa) (five millimeters of mercury (5 mm Hg) or one-tenth pound per square inch (0.1 psi)) measured at twenty degrees Centigrade (20°C) (sixty-eight degrees Fahrenheit (68°F)) | |
| | <input type="checkbox"/> The following equipment related to manufacturing activities not resulting in the emission of HAPs: | |
| | <input type="checkbox"/> Brazing equipment <input type="checkbox"/> Cutting torches <input type="checkbox"/> Soldering equipment <input type="checkbox"/> Welding equipment | |
| | <input type="checkbox"/> Closed loop heating and cooling systems | |
| | <input type="checkbox"/> Infrared cure equipment | |
| | <input type="checkbox"/> Exposure chambers (towers or columns) for curing of ultraviolet inks and ultra-violet coatings where heat is the intended discharge | |
| | <input type="checkbox"/> Any of the following structural steel and bridge fabrication activities: | |
| | <input type="checkbox"/> Cutting two hundred thousand (200,000) linear feet or less of one (1) inch plate or equivalent | |
| | <input type="checkbox"/> Using eighty (80) tons or less of welding consumables | |
| | 24. Activities associated with the following recovery systems: | 2-7-1(21)(G)(vii) |
| | <input type="checkbox"/> Rolling oil recovery systems | |
| | <input type="checkbox"/> Groundwater oil recovery wells | |
| | 25. Solvent recycling systems with batch capacity less than or equal to one hundred (100) gallons | 2-7-1(21)(G)(viii) |

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Part B: Insignificant Activities (continued)

Part B is intended to identify all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). **Please use this table as a checklist.** Indicate which activities are present by checking the appropriate box. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Insignificant Activity | Citation (326 IAC) |
|---------|--|--------------------|
| | 26. Water-based activities, including the following: | 2-7-1(21)(G)(ix) |
| | <input type="checkbox"/> Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to one percent (1%) by volume | |
| | <input type="checkbox"/> Water runoff ponds for petroleum coke-cutting and coke storage piles | |
| | <input type="checkbox"/> Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the owner/operator, that is, an on-site sewage treatment facility | |
| | <input type="checkbox"/> Any operation using aqueous solutions containing less than one percent (1%) by weight of VOCs excluding HAPs | |
| | <input type="checkbox"/> Water based adhesives that are less than or equal to five percent (5%) by volume of VOCs excluding HAPs | |
| | <input type="checkbox"/> Noncontact cooling tower systems with either of the following: | |
| | <input type="checkbox"/> Natural draft cooling towers not regulated under a NESHAP | |
| | <input type="checkbox"/> Forced and induced draft cooling tower systems not regulated under a NESHAP | |
| | <input type="checkbox"/> Quenching operations used with heat treating processes | |
| | 27. Repair activities, including the following: | 2-7-1(21)(G)(x) |
| | <input type="checkbox"/> Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment | |
| | <input type="checkbox"/> Heat exchanger cleaning and repair | |
| | <input type="checkbox"/> Process vessel degassing and cleaning to prepare for internal repairs | |
| | 28. Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device, such as a bag filter or cyclone | 2-7-1(21)(G)(xi) |
| | 29. Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal | 2-7-1(21)(G)(xii) |
| | 30. Paved and unpaved roads and parking lots with public access | 2-7-1(21)(G)(xiii) |
| | 31. Conveyors as follows: | 2-7-1(21)(G)(xiv) |
| | <input type="checkbox"/> Covered conveyors for solid raw material, including the following: | |
| | <input type="checkbox"/> Coal or coke conveying of less than or equal to three hundred sixty (360) tons per day | |
| | <input type="checkbox"/> Limestone conveying of less than or equal to seven thousand two hundred (7,200) tons per day for sources other than mineral processing plants constructed after August 31, 1983 | |
| | <input type="checkbox"/> Uncovered coal or coke conveying of less than or equal to one hundred twenty (120) tons per day | |
| | <input type="checkbox"/> Underground conveyors | |
| | <input type="checkbox"/> Enclosed systems for conveying plastic raw materials and plastic finished goods | |
| | 32. Coal bunker and coal scale exhausts and associated dust collector vents | 2-7-1(21)(G)(xv) |
| | 33. Asbestos abatement projects regulated by 326 IAC 14-10 | 2-7-1(21)(G)(xvi) |

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Part B: Insignificant Activities (continued)

Part B is intended to identify all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). **Please use this table as a checklist.** Indicate which activities are present by checking the appropriate box. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Insignificant Activity | Citation (326 IAC) |
|---------|---|----------------------|
| | 34. Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including the following: <input type="checkbox"/> Purging of gas lines <input type="checkbox"/> Purging of vessels | 2-7-1(21)(G)(xvii) |
| | 35. Flue gas conditioning systems and associated chemicals such as the following: <input type="checkbox"/> Sodium sulfate <input type="checkbox"/> Ammonia <input type="checkbox"/> Sulfur trioxide. | 2-7-1(21)(G)(xviii) |
| | 36. Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including the following: <input type="checkbox"/> Catch tanks <input type="checkbox"/> Temporary liquid separators <input type="checkbox"/> Tanks <input type="checkbox"/> Fluid handling equipment | 2-7-1(21)(G)(xix) |
| | 37. Blowdown for the following: <input type="checkbox"/> Sight glass <input type="checkbox"/> Boiler <input type="checkbox"/> Compressors <input type="checkbox"/> Pumps <input type="checkbox"/> Cooling tower | 2-7-1(21)(G)(xx) |
| | 38. Furnaces used for melting metals other than beryllium with a brim full capacity of less than or equal to four hundred fifty (450) cubic inches by volume | 2-7-1(21)(G)(xxi) |
| | 39. Activities associated with emergencies, including the following: <input type="checkbox"/> On-site fire training approved by the IDEM <input type="checkbox"/> Emergency generators as follows: <input type="checkbox"/> Gasoline generators not exceeding one hundred ten (110) horsepower <input type="checkbox"/> Diesel generators not exceeding one thousand six hundred (1,600) horsepower <input type="checkbox"/> Natural gas turbines or reciprocating engines not exceeding sixteen thousand (16,000) horsepower <input type="checkbox"/> Stationary fire pump engines | 2-7-1(21)(G)(xxii) |
| | 40. Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to three one-hundredths grains per actual cubic foot (0.03 gr/acf) and a gas flow rate less than or equal to four thousand actual cubic feet per minute (4,000 acf/min), including the following: <input type="checkbox"/> Deburring <input type="checkbox"/> Polishing <input type="checkbox"/> Pneumatic conveying <input type="checkbox"/> Buffing <input type="checkbox"/> Abrasive blasting <input type="checkbox"/> Woodworking operations | 2-7-1(21)(G)(xxiii) |
| | 41. Purge double block and bleed valves | 2-7-1(21)(G)(xxiv) |
| | 42. Filter or coalescer media changeout | 2-7-1(21)(G)(xxv) |
| | 43. Vents from ash transport systems not operated at positive pressure | 2-7-1(21)(G)(xxvi) |
| | 44. Mold release agents using low volatile products (vapor pressure less than or equal to two kilo Pascals (2kPa) measured at thirty-eight degrees Centigrade (38°C) | 2-7-1(21)(G)(xxvii) |
| | 45. Farm operations | 2-7-1(21)(G)(xxviii) |

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Part B: Insignificant Activities (continued)

Part B identifies all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). **Please use this table as a checklist.** Indicate which activities are present by checking the appropriate box. If applicable, provide the Emissions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.

| Unit ID | Description of Insignificant Activity | Citation (326 IAC) |
|---------|---|--------------------|
| | 46. Woodworking equipment controlled by a baghouse provided that the following criteria are met: | 2-7-1(21)(G)(xxix) |
| | <input type="checkbox"/> The baghouse does not exhaust to the atmosphere greater than one hundred twenty-five thousand (125,000) cubic feet per minute | |
| | <input type="checkbox"/> The baghouse does not emit particulate matter with a diameter less than ten (10) microns in excess of three-thousandths grains per dry standard cubic feet (0.003 gr/dscf) of outlet air | |
| | <input type="checkbox"/> Opacity from the baghouse does not exceed ten percent (10%) | |
| | <input type="checkbox"/> The baghouse is in operation at all times the woodworking equipment is in use | |
| | <input type="checkbox"/> Visible emissions from the baghouse are observed daily using procedures in accordance with 40 CFR 60, Appendix A, Method 22 and normal or abnormal emissions are recorded. In the event abnormal emissions are observed for greater than six (6) minutes in duration, the following shall occur: | |
| | <input type="checkbox"/> The baghouse shall be inspected | |
| | <input type="checkbox"/> Corrective actions, such as replacing or reseating bags, are initiated, when necessary | |
| | <input type="checkbox"/> The baghouse is inspected quarterly when vented to the atmosphere | |
| | <input type="checkbox"/> The owner or operator keeps the following records: | |
| | <input type="checkbox"/> Records documenting the date when the baghouse redirected indoors or to the atmosphere | |
| | <input type="checkbox"/> Quarterly inspection reports, when vented to the atmosphere | |
| | <input type="checkbox"/> Visible observation reports | |
| | <input type="checkbox"/> Records of corrective actions | |
| | 47. Woodworking equipment controlled by a baghouse provided that the following criteria are met: | 2-7-1(21)(G)(xxx) |
| | <input type="checkbox"/> The baghouse does not exhaust to the atmosphere greater than forty thousand (40,000) cubic feet per minute | |
| | <input type="checkbox"/> The baghouse does not emit particulate matter with a diameter less than ten (10) microns in excess of one-hundredth grains per dry standard cubic feet (0.01 gr/dscf) of outlet air | |
| | <input type="checkbox"/> Opacity from the baghouse does not exceed ten percent (10%) | |
| | <input type="checkbox"/> The baghouse is in operation at all times the woodworking equipment is in use | |
| | <input type="checkbox"/> Visible emissions from the baghouse are observed daily using procedures in accordance with 40 CFR 60, Appendix A, Method 22 and normal or abnormal emissions are recorded. In the event abnormal emissions are observed for greater than six (6) minutes in duration, the following shall occur: | |
| | <input type="checkbox"/> The baghouse shall be inspected | |
| | <input type="checkbox"/> Corrective actions, such as replacing or reseating bags, are initiated, when necessary | |
| | <input type="checkbox"/> The baghouse is inspected quarterly when vented to the atmosphere | |
| | <input type="checkbox"/> The owner or operator keeps the following records: | |
| | <input type="checkbox"/> Records documenting the date when the baghouse redirected indoors or to the atmosphere | |
| | <input type="checkbox"/> Quarterly inspection reports, when vented to the atmosphere | |
| | <input type="checkbox"/> Visible observation reports | |
| | <input type="checkbox"/> Records of corrective actions | |



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.

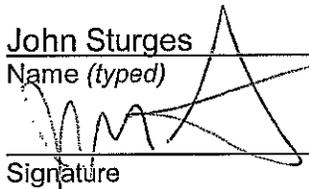
PART A: Affidavit Of Nonapplicability

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 Sturges, being first duly sworn upon oath, deposes and says:

1. I live in Tippecanoe 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 Site Manager for Monsanto Company (permit applicant's or facility's name).
3. By virtue of my position with Monsanto Company (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 Monsanto Company (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 Sturges
 Name (typed)

 Signature

Site Manager
 Title
11/29/12
 Date

STATE OF Indiana

COUNTY OF Tippecanoe

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 Sturges, and being first duly sworn by me upon oath, says that the fact stated in the foregoing instrument are true. Signed and sealed this 29th of Nov, 2012

Printed: Barbara Sigo Barbara Sigo

My Commission Expires: 9 13 14

Residence of Tippecanoe-Lafayette, IN

County Tippecanoe Co



**OAQ GENERAL SOURCE DATA APPLICATION
GSD-15: Government Officials Notified**

State Form 51608 (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-15 is to identify local government officials that are to be notified that an air permit application has been submitted.
- 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.

| Government Officials Notified | | |
|--|---|-------------------|
| Use this table to identify local government officials that should be notified pursuant to Indiana Code (IC) 13-15-3-1 that an air permit application has been submitted. If you need additional space, you may make copies of this form. | | |
| 1. Name: Brian Melchi | 2. Date Notified: | |
| 3. Title: President of Remington Town Council | | |
| 4. Address: 24 South Indiana Street | | |
| City: Remington | State: IN | ZIP Code: 47977 – |
| 5. Electronic Mail: | 6. Telephone Number: (219) 261 - 2523 | |
| 7. Method of Notification: <input type="checkbox"/> Telephone <input type="checkbox"/> Electronic Mail <input type="checkbox"/> Standard Mail <input type="checkbox"/> Other (specify): | | |
| Name: Jonathon Cripe | Date Notified: | |
| Title: Remington Town Manager | | |
| Address: 24 South Indiana Street | | |
| City: Remington | State: IN | ZIP Code: 47977 – |
| Electronic Mail: | Telephone Number: (219) 261 - 2523 | |
| Method of Notification: <input type="checkbox"/> Telephone <input type="checkbox"/> Electronic Mail <input type="checkbox"/> Standard Mail <input type="checkbox"/> Other (specify): | | |
| Name: Mary Scheurich | Date Notified: | |
| Title: Director of Jasper County Planning and Development | | |
| Address: 115 West Washington Street, Suite 109 | | |
| City: Rensselaer | State: IN | ZIP Code: 47978 – |
| Electronic Mail: | Telephone Number: (219) 866 - 4908 | |
| Method of Notification: <input type="checkbox"/> Telephone <input type="checkbox"/> Electronic Mail <input type="checkbox"/> Standard Mail <input type="checkbox"/> Other (specify): | | |
| Name: | Date Notified: | |
| Title: Jasper County - Board of County Commissioners | | |
| Address: 115 West Washington Street, Suite 109 | | |
| City: Rensselaer | State: IN | ZIP Code: 47978 – |
| Electronic Mail: | Telephone Number: (219) 866 - 4908 | |
| Method of Notification: <input type="checkbox"/> Telephone <input type="checkbox"/> Electronic Mail <input type="checkbox"/> Standard Mail <input type="checkbox"/> Other (specify): | | |

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|



OAQ CONTROL EQUIPMENT APPLICATION
CE-02: Particulate Control – Baghouse / Fabric Filter
 State Form 51953 (R2 / 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 CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- 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 any one to inspect and photocopy.

PART A: Identification and Description of Control Equipment

Part A identifies the particulate control device and describes its physical properties.

| | |
|--|--|
| 1. Control Equipment ID: | CE-15c |
| 2. Installation Date: | 1/1/2013 |
| 3. Bags or Cartridges? | <input checked="" type="checkbox"/> Bags <input type="checkbox"/> Cartridges |
| 4. Filter Material: | Dura-Life filter bags |
| 5. Number of Bags/Cartridges per Compartment: | 484 |
| 6. Number of Compartments: | 1 |
| 7. Mode of Operation: | <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Continuous |
| 8. Cleaning Method: | <input type="checkbox"/> Shaking <input type="checkbox"/> Reverse Pulse <input type="checkbox"/> Reverse Air <input checked="" type="checkbox"/> Jet Pulse |
| 9. Cleaning Cycle / Frequency (specify units): | TBD |
| 10. Is a bag leak detector installed on this device? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 11. Type / Description of Bag Leak Detector: | <input type="checkbox"/> Positive Pressure <input checked="" type="checkbox"/> Negative Pressure |
| 12. Air to Cloth Ratio (Ex: 1.3 : 1.0): | 3.5 : 1.0 |
| 13. Is Lime Injection used on this device? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 14. Is Carbon Injection used on this device? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

PART B: Operational Parameters

Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used. For each applicable parameter, provide the inlet and outlet values or provide the differential value.

| | A. Units | B. Inlet | C. Outlet | D. Differential |
|---|-----------------|----------|-----------|-----------------|
| 15. Gas Stream Flow Rate | ACFM | 14880.00 | | |
| 16. Gas Stream Temperature | °F | 70.00 | | |
| 17. Gas Stream Pressure | inches of water | | | 0.00 to 4.00 |
| 18. Moisture Content | % | | | |
| 19. Particle Size Range | micrometers | | | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

PART C: Pollutant Concentrations

Part C provides the pollutant concentrations of the pollutant laden gas stream.

| | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency (%): | |
|--|-----------|-----------|------------|---------------------|---------|
| | | | | Capture | Control |
| <input type="checkbox"/> a. Lead (Pb) | | | | | |
| <input type="checkbox"/> b. Hazardous Air Pollutant (HAP) (specify): | | | | | |
| <input checked="" type="checkbox"/> c. Particulate Matter (PM) | gr/dscf | | 0.00 | | |
| <input checked="" type="checkbox"/> d. Particulate Matter less than 10µm (PM ₁₀) | gr/dscf | | 0.00 | | |
| <input checked="" type="checkbox"/> e. Particulate Matter less than 2.5µm (PM _{2.5}) | gr/dscf | | 0.00 | | |
| <input type="checkbox"/> f. Other Pollutant (specify): | | | | | |

PART D: Monitoring, Record Keeping, & Testing Procedures

Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.

| | | | | |
|-------------------------------|-----------------|--|--|--|
| 27. Item(s) Monitored: | Pressure drop | | | |
| 28. Monitoring Frequency: | Daily | | | |
| 29. Item(s) Recorded: | Normal/Abnormal | | | |
| 30. Record Keeping Frequency: | Daily | | | |
| 31. Pollutant(s) Tested: | None | | | |
| 32. Test Method(s): | None | | | |
| 33. Testing Frequency: | None | | | |

PART E: Preventive Maintenance Plan

Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.

34. Do you have a Preventive Maintenance Plan (PMP)?

No PMP is needed. Yes – the following items are identified on the PMP:

- A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices.
- B. Description of the items or conditions that will be inspected.
- C. Schedule for inspection of items or conditions described above.
- D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

PART F: Determination of Integral Control

Part F provides explanation to determine whether the control device should be considered integral to the process.

35. Has IDEM already made an integral control determination for this device?

No Yes

If "Yes", provide the following:

Permit Number: _____ Issuance Date: _____ Determination: Integral Not Integral

36. Is this device integral to the process?

No Yes

If "Yes", provide the reason(s) why the device is integral.



OAQ CONTROL EQUIPMENT APPLICATION
CE-02: Particulate Control – Baghouse / Fabric Filter
 State Form 51953 (R2 / 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 CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- 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 any one to inspect and photocopy.

PART A: Identification and Description of Control Equipment

Part A identifies the particulate control device and describes its physical properties.

| | |
|--|--|
| 1. Control Equipment ID: | CE-16 |
| 2. Installation Date: | 1/1/2013 |
| 3. Bags or Cartridges? | <input checked="" type="checkbox"/> Bags <input type="checkbox"/> Cartridges |
| 4. Filter Material: | Dura-Life filter bags |
| 5. Number of Bags/Cartridges per Compartment: | 608 |
| 6. Number of Compartments: | 1 |
| 7. Mode of Operation: | <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Continuous |
| 8. Cleaning Method: | <input type="checkbox"/> Shaking <input type="checkbox"/> Reverse Pulse <input type="checkbox"/> Reverse Air <input checked="" type="checkbox"/> Jet Pulse |
| 9. Cleaning Cycle / Frequency (specify units): | TBD |
| 10. Is a bag leak detector installed on this device? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 11. Type / Description of Bag Leak Detector: | <input type="checkbox"/> Positive Pressure <input checked="" type="checkbox"/> Negative Pressure |
| 12. Air to Cloth Ratio (Ex: 1.3 : 1.0): | 6.2 : 1.0 |
| 13. Is Lime Injection used on this device? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 14. Is Carbon Injection used on this device? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

PART B: Operational Parameters

Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used. For each applicable parameter, provide the inlet and outlet values or provide the differential value.

| | A. Units | B. Inlet | C. Outlet | D. Differential |
|---|-----------------|----------|-----------|-----------------|
| 15. Gas Stream Flow Rate | ACFM | 32000.00 | | |
| 16. Gas Stream Temperature | °F | 70.00 | | |
| 17. Gas Stream Pressure | inches of water | | | 0.00 to 4.00 |
| 18. Moisture Content | % | | | |
| 19. Particle Size Range | micrometers | | | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

PART C: Pollutant Concentrations

Part C provides the pollutant concentrations of the pollutant laden gas stream.

| | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency (%): | |
|--|-----------|-----------|------------|---------------------|---------|
| | | | | Capture | Control |
| <input type="checkbox"/> a. Lead (Pb) | | | | | |
| <input type="checkbox"/> b. Hazardous Air Pollutant (HAP) (specify): | | | | | |
| <input checked="" type="checkbox"/> c. Particulate Matter (PM) | gr/dscf | | 0.00 | | 99.90% |
| <input checked="" type="checkbox"/> d. Particulate Matter less than 10µm (PM ₁₀) | gr/dscf | | 0.00 | | |
| <input checked="" type="checkbox"/> e. Particulate Matter less than 2.5µm (PM _{2.5}) | gr/dscf | | 0.00 | | |
| <input type="checkbox"/> f. Other Pollutant (specify): | | | | | |

PART D: Monitoring, Record Keeping, & Testing Procedures

Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.

| | | | | |
|-------------------------------|-----------------|--|--|--|
| 27. Item(s) Monitored: | Pressure drop | | | |
| 28. Monitoring Frequency: | Daily | | | |
| 29. Item(s) Recorded: | Normal/Abnormal | | | |
| 30. Record Keeping Frequency: | Daily | | | |
| 31. Pollutant(s) Tested: | None | | | |
| 32. Test Method(s): | None | | | |
| 33. Testing Frequency: | None | | | |

PART E: Preventive Maintenance Plan

Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.

34. Do you have a Preventive Maintenance Plan (PMP)?

No PMP is needed. Yes – the following items are identified on the PMP:

- A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices.
- B. Description of the items or conditions that will be inspected.
- C. Schedule for inspection of items or conditions described above.
- D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

PART F: Determination of Integral Control

Part F provides explanation to determine whether the control device should be considered integral to the process.

35. Has IDEM already made an integral control determination for this device?

No Yes

If "Yes", provide the following:

Permit Number: _____ Issuance Date: _____ Determination: Integral Not Integral

36. Is this device integral to the process?

No Yes

If "Yes", provide the reason(s) why the device is integral.



OAQ PROCESS INFORMATION APPLICATION

PI-02A: Combustion Unit Summary

State Form 52535 (R2 / 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 summarize all of the combustion process units.
- 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 anyone to inspect and photocopy.

| Form ID | Form Title | Guidance on when to submit the form |
|---------|--|---|
| PI-02A | Combustion Unit Summary | Complete once for each application. |
| PI-02B | Boilers & Process Heaters | Complete once for each boiler or process heater. |
| PI-02C | Turbines & Internal Combustion Engines | Complete once for each turbine or internal combustion engine. |
| PI-02D | Incinerators & Combustors | Complete once for each incinerator or combustor. |
| PI-02E | Kilns | Complete once for each kiln. |
| PI-02F | Fuel Use | Complete once for each emissions unit that burns fuel other than natural gas . |
| PI-02G | Emission Factors | Complete once for each emissions unit. |
| PI-02H | Federal Rule Applicability | Complete once for each emissions unit. |

| Summary of Combustion Units | | | | | |
|---|------------------------------|---------------|---|--|---|
| This table summarizes all the combustion units at the source. If there are multiple combustion units that are identical in nature, capacity, and use, you may use one row to summarize the identical units. | | | | | |
| 1. Combustion Unit Type | 2. Number of Identical Units | 3. Unit ID(s) | 4. Date of Installation or Modification <i>(actual or anticipated)</i> | 5. Heat Input Rate of each unit <i>(MMBtu/hr)</i> | 6. Emergency / Back-Up Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Natural gas dryer (process heater) | 1 | Dry 5 | 1/1/2013 | 252.00 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Natural gas dryer (process heater) | 1 | Dry 6 | 1/1/2013 | 252.00 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |



OAQ PROCESS INFORMATION APPLICATION

PI-01: Miscellaneous Process

State Form 52534 (R2 / 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 obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is a required form.
- 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 anyone to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. Unit ID: Dry 5 and Dry 6

2. Installation Date: 1/1/2013
(actual or anticipated)

3. How many (identical) process units are identified in this form? One More than one (specify number) : 2

4. Process Description:

Dry 5 will be modified to have a capacity of 252 MMBtu/hour of natural gas and 778 bushels of corn per hour.
Dry 6 will be modified to have a capacity of 252 MMBtu/hour of natural gas and 778 bushels of corn per hour.

5. Maximum Production Rate (specify units): 778.00 bushels/hour each

6. Fuel Used: Not Applicable Natural Gas Only Other – Attach completed PI-02F form.

7. Add-On Control Technology: Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- None
- Baghouse / Fabric Filter – Attach CE-02. Cyclone – Attach CE-03.
- Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / Scrubber – Attach CE-05.
- Oxidizer / Incinerator – Attach CE-06. Adsorber – Attach CE-07.
- Condenser – Attach CE-08. Reduction – Attach CE-09.
- Other (specify): – Attach CE-10.

8. Control Techniques: Identify all control techniques used for this process.

None

9. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.

Dry 1, 2, 3, 4, 5 & 6 will be limited to 1,126.9 mmcf of natural gas per 12 month consecutive period (no net increase in the fuel limit)
PM10 dryer emissions (grain drying) 0.12 lb/ton (AP-42 emission factor from Rack Dryer with Self Cleaning Screen).
Dryers 1, 2, 3, 4, 5 & 5 will have a limited grain throughput of 200,000 tpy of wet ear corn.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|--|-------------------|---------------------|---------|---|--------------------------------|
| | | value | units | | |
| Dryer 5/6 (natural gas) | PM/PM10 | 7.60 | lb/mmcf | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Dryer 5/6 (natural gas) | SO2 | 0.60 | lb/mmcf | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Dryer 5/6 (natural gas) | NOx | 100.00 | lb/mmcf | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Dryer 5/6 (natural gas) | CO | 84.00 | lb/mmcf | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Dryer 5/6 (natural gas) | VOC | 5.50 | lb/mmcf | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Dryer 5/6 (grain) | PM | 0.47 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|---------------------------|--------------------------------------|
| Corn (Dry 5 bushels/hour) | 778.00 |
| Corn (Dry 6 bushels/hour) | 778.00 |
| | |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** *Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.*

Total storage capacity is less than the NSPS applicability threshold.



OAQ PROCESS INFORMATION APPLICATION
PI-02B: Combustion – Boilers, Process Heaters & Furnaces

State Form 52536 (R2 / 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 specify details that pertain only to boilers, process heaters and furnaces.
- For the purposes of this form, a process heater is any combustion unit that provides heat directly or indirectly to the process.
- Complete one PI-02B form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02B form to summarize the units.
- 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 anyone to inspect and photocopy.

PART A: Process Unit Details

Part A specifies operating information that is unique to boilers, process heaters and furnaces. Definitions and additional explanation of terminology are included in the instructions for this form.

1. Unit ID: Dry 5 and Dry 6

2. Type of Combustion Unit

- | | | |
|---|---|---|
| <input type="checkbox"/> Boiler: | <input type="checkbox"/> Industrial Boiler | <input type="checkbox"/> Commercial Boiler |
| | <input type="checkbox"/> Institutional Boiler | <input type="checkbox"/> Horseshoe Boiler |
| <input checked="" type="checkbox"/> Process Heater: | <input type="checkbox"/> Dutch Oven | <input checked="" type="checkbox"/> Drying Oven |
| | <input type="checkbox"/> Fuel Cell | <input type="checkbox"/> Space Heater |
| <input type="checkbox"/> Furnace: | <input type="checkbox"/> Crucible | <input type="checkbox"/> Crucible Pot |
| | <input type="checkbox"/> Cupola | <input type="checkbox"/> Electric Arc |
| | <input type="checkbox"/> Electric Induction | <input type="checkbox"/> Open Hearth |
| | <input type="checkbox"/> Open Hearth, Oxygen Lanced | <input type="checkbox"/> Pot |
| | <input type="checkbox"/> Reverberatory | <input type="checkbox"/> Sweat |

3. Combustion Process

- | | | |
|--|---|--|
| <input type="checkbox"/> Cyclone Burner | <input type="checkbox"/> Fluidized Bed – <i>Circulating</i> | <input type="checkbox"/> Fluidized Bed – <i>Bubbling</i> |
| <input type="checkbox"/> Overfeed Stoker / Traveling Grate | <input type="checkbox"/> Pulverized – <i>Dry Bottom</i> | <input type="checkbox"/> Pulverized – <i>Wet Bottom</i> |
| <input type="checkbox"/> Spreader Stoker | <input type="checkbox"/> Underfeed Stoker | <input type="checkbox"/> Other (<i>specify</i>): _____ |

4. Heat Transfer Method: Watertube Firetube Cast Iron

5. Transfer Surface Arrangement
(check all that apply): Horizontal Straight
 Vertical Bent Tube

6. Firing Configuration: Cyclone Fluidized Bed Combustor Front Wall
 Horizontally Opposed Normal Stoker
 Suspension Tangential

7. Heat Transfer Method
(process heaters only): Direct Indirect

8. Fuel Used: Natural Gas Only Other – *Attach completed PI-02F.*

PART B: Emission Controls and Limitations

Part B identifies control technology, control techniques or other process limitations that impact air emissions:

9. Add-On Control Technology: Identify all control technologies used for this process. Attach completed CE-01 (unless "none").

None

Baghouse / Fabric Filter – Attach CE-02.

Cyclone – Attach CE-03.

Electrostatic Precipitator – Attach CE-04.

Absorption / Wet Collector / Scrubber – Attach CE-05.

NO_x Reduction – Attach CE-09.

Other (specify): – Attach CE-10.

10. Control Techniques: Identify all control techniques used for this process.

None (explain):

Ammonia Injection

Biased Burner Firing

Burning Oil / Water Emulsions

Burners Out Of Service

Duct Injection

Flue Gas Recirculation

Flyash Reinjection

Furnace Injection

Load Reduction

Low Excess Air

Low NO_x Burners

Overfire Air

Reburn

Reduced Air Preheat

Spray Drying

Staged Combustion

Other (specify):

– Attach completed GSD-09.

11. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.

Dry 1, 2, 3, 4, 5 & 6 will be limited to 1,126.9 mmcf of natural gas per 12 month consecutive period (no net increase in the fuel limit).

PART C: Previously Installed Boilers

Part C identifies all boilers that were installed prior to submitting this application.

12. Are there any Previously Installed Boilers present at this source?

No – Proceed to Part D.

Yes → Information attached. Information is contained in operating permit: Dry 1, 2, 3, & 4

PART D: Furnace Details

Part D identifies details that pertain only to furnaces. If there are no furnaces identified with this application, completion of this table is not required.

13. Material Melted:

14. Maximum Melt Rate (specify units):

15. Flux Type:

MSDS attached.

16. Flux Amount (specify units):

17. Oven Throughput Material:



OAQ PROCESS INFORMATION APPLICATION
PI-02F: Combustion – Fuel Use
 State Form 52540 (R2 / 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 identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this form.
- Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
- 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 anyone to inspect and photocopy.

PART A: Process Unit Identification

1. Unit ID: Dry 5 (252 mmBtu/hour of natural gas)

PART B: Gaseous Fuels

Part B identifies the gaseous fuels that will be used in the combustion unit.

| 2. Fuel Type: | 3. Percent of Fuel Use (by volume) | 4. Primary or Secondary Fuel? | 5. Component Percentages: | 6. Heating Value: |
|--|---------------------------------------|--|---|--|
| <input checked="" type="checkbox"/> Natural Gas | 100.00% | <input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Sulfur: Butane: Propane: | 1020.00 (Btu/ft ³) (Btu/ft ³) |
| <input type="checkbox"/> Liquefied Petroleum Gas <input type="checkbox"/> Commercial- Propane <input type="checkbox"/> Engine Fuel Propane (HD-5) <input type="checkbox"/> Commercial- Butane | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Sulfur: Butane: Propane: | (Btu/ft ³) (Btu/ft ³) |
| <input type="checkbox"/> Process Gas * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Sulfur: | (Btu/ft ³) (Btu/ft ³) |
| <input type="checkbox"/> Landfill Gas * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Sulfur: | (Btu/ft ³) (Btu/ft ³) |
| <input type="checkbox"/> Other (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : : | (Btu/ft ³) (Btu/ft ³) |

* Indicate the source of the process or landfill gas:

PART C: Liquid Fuels

Part C identifies the liquid fuels that will be used in the combustion unit.

| 7. Fuel Type: | 8. Percent of Fuel Use (by volume) | 9. Primary or Secondary Fuel? | 10. Component Percentages: | 11. Heating Value: (Btu/gal) | 12. Percent Heat: |
|---|---------------------------------------|--|--------------------------------------|---------------------------------|-------------------|
| <input type="checkbox"/> Residual Fuel Oil <input type="checkbox"/> No. 5 - Heavy <input type="checkbox"/> No. 5 - Light <input type="checkbox"/> No. 6 (Bunker C) | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/gal) | |
| <input type="checkbox"/> Distillate Fuel Oil <input type="checkbox"/> No. 1 <input type="checkbox"/> No. 2 (Diesel) <input type="checkbox"/> No. 4 | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/gal) | |
| <input type="checkbox"/> Gasoline | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/gal) | |
| <input type="checkbox"/> Waste Oil | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Lead Chlorine: | (Btu/gal) | |
| <input type="checkbox"/> Liquid Waste * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Fluorine: Chlorine: | (Btu/gal) | |
| <input type="checkbox"/> Other (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : : : | (Btu/gal) | |

* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

This space was intentionally left blank.

PART D1: Solid Fuels - Coal

Part D1 identifies all variations of coal that will be used in the combustion unit.

| 13. Fuel Type: | 14. Percent of Fuel Use <i>(by volume)</i> | 15. Primary or Secondary Fuel? <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | 16. Component Percentages: Sulfur: Ash: Moisture: | 17. Heating Value: <i>(Btu/lb)</i> | 18. Basis: <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
|--|---|--|--|---|---|
| <input type="checkbox"/> Anthracite Coal <input type="checkbox"/> Anthracite <input type="checkbox"/> Culm | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Bituminous Coal | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Sub-bituminous Coal | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Lignite Coal | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Coke | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Other Coal (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/gal) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |

This space was intentionally left blank.

PART D2: Other Solid Fuels

Part D2 identifies the solid fuels, other than coal, that will be used in the combustion unit.

| 19. Fuel Type: | 20. Percent of Fuel Use (by volume) | 21. Primary or Secondary Fuel? | 22. Component Percentages: | 23. Heating Value: (Btu/ton) | 24. Percent Heat: |
|---|--|--|-----------------------------------|---------------------------------|-------------------|
| <input type="checkbox"/> Wood or Wood Waste <input type="checkbox"/> Wood Only <input type="checkbox"/> Wood Residue Only <input type="checkbox"/> Wood and Wood Residue | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Moisture: | (Btu/ton) | |
| <input type="checkbox"/> Tires or Tire Derived Fuel <input type="checkbox"/> Whole Tires <input type="checkbox"/> Tire Derived Fuel | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Chromium: Chlorine: | (Btu/lb) | |
| <input type="checkbox"/> Bagasse | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Ash: Moisture: | (Btu/lb) | |
| <input type="checkbox"/> Solid Waste * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : : | (Btu/lb) | |
| <input type="checkbox"/> Other (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : : | (Btu/lb) | |

*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

PART E: Fuel Consumption Limitations

Use the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.

Dry 1, 2, 3, 4, 5 & 6 will be limited to 1,126.9 mmcf of natural gas per 12 month consecutive period (no net increase in the fuel limit).



OAQ PROCESS INFORMATION APPLICATION
PI-02F: Combustion – Fuel Use
 State Form 52540 (R2 / 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
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- NOTES:**
- The purpose of this form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this form.
 - Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
 - 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 anyone to inspect and photocopy.

PART A: Process Unit Identification

1. Unit ID: Dry 6 (252 mmBtu/hour of natural gas)

PART B: Gaseous Fuels

Part B identifies the gaseous fuels that will be used in the combustion unit.

| 2. Fuel Type: | 3. Percent of Fuel Use (by volume) | 4. Primary or Secondary Fuel? | 5. Component Percentages: | 6. Heating Value: |
|--|---------------------------------------|--|--------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | 100.00% | <input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | 1020.00 (Btu/ft ³) |
| <input type="checkbox"/> Liquefied Petroleum Gas <input type="checkbox"/> Commercial- Propane <input type="checkbox"/> Engine Fuel Propane (HD-5) <input type="checkbox"/> Commercial- Butane | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Butane: Propane: | (Btu/ft ³) |
| <input type="checkbox"/> Process Gas * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/ft ³) |
| <input type="checkbox"/> Landfill Gas * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/ft ³) |
| <input type="checkbox"/> Other (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : | (Btu/ft ³) |

* Indicate the source of the process or landfill gas:

PART C: Liquid Fuels

Part C identifies the liquid fuels that will be used in the combustion unit.

| 7. Fuel Type: | 8. Percent of Fuel Use (by volume) | 9. Primary or Secondary Fuel? | 10. Component Percentages: | 11. Heating Value: | 12. Percent Heat: |
|---|---------------------------------------|--|--------------------------------------|--------------------|-------------------|
| <input type="checkbox"/> Residual Fuel Oil <input type="checkbox"/> No. 5 - Heavy <input type="checkbox"/> No. 5 - Light <input type="checkbox"/> No. 6 (Bunker C) | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/gal) | |
| <input type="checkbox"/> Distillate Fuel Oil <input type="checkbox"/> No. 1 <input type="checkbox"/> No. 2 (Diesel) <input type="checkbox"/> No. 4 | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/gal) | |
| <input type="checkbox"/> Gasoline | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: | (Btu/gal) | |
| <input type="checkbox"/> Waste Oil | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Lead Chlorine: | (Btu/gal) | |
| <input type="checkbox"/> Liquid Waste * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Fluorine: Chlorine: | (Btu/gal) | |
| <input type="checkbox"/> Other (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : : | (Btu/gal) | |

* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

This space was intentionally left blank.

PART D1: Solid Fuels - Coal

Part D1 identifies all variations of coal that will be used in the combustion unit.

| 13. Fuel Type: | 14. Percent of Fuel Use (by volume) | 15. Primary or Secondary Fuel? <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | 16. Component Percentages: Sulfur: Ash: Moisture: | 17. Heating Value: (Btu/lb) | 18. Basis: <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
|--|--|--|--|--------------------------------|---|
| <input type="checkbox"/> Anthracite Coal <input type="checkbox"/> Anthracite <input type="checkbox"/> Culm | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Bituminous Coal | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Sub-bituminous Coal | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Lignite Coal | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Coke | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/lb) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |
| <input type="checkbox"/> Other Coal (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Ash: Moisture: | (Btu/gal) | <input type="checkbox"/> Dry <input type="checkbox"/> Moist |

This space was intentionally left blank.

PART D2: Other Solid Fuels

Part D2 identifies the solid fuels, other than coal, that will be used in the combustion unit.

| 19. Fuel Type: | 20. Percent of Fuel Use (by volume) | 21. Primary or Secondary Fuel? | 22. Component Percentages: | 23. Heating Value: | 24. Percent Heat: |
|---|--|--|-----------------------------------|--------------------|-------------------|
| <input type="checkbox"/> Wood or Wood Waste <input type="checkbox"/> Wood Only <input type="checkbox"/> Wood Residue Only <input type="checkbox"/> Wood and Wood Residue | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Moisture: | (Btu/ton) | |
| <input type="checkbox"/> Tires or Tire Derived Fuel <input type="checkbox"/> Whole Tires <input type="checkbox"/> Tire Derived Fuel | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Sulfur: Chromium: Chlorine: | (Btu/lb) | |
| <input type="checkbox"/> Bagasse | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | Ash: Moisture: | (Btu/lb) | |
| <input type="checkbox"/> Solid Waste * | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : | (Btu/lb) | |
| <input type="checkbox"/> Other (specify): | | <input type="checkbox"/> Primary <input type="checkbox"/> Secondary | : | (Btu/lb) | |

*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

PART E: Fuel Consumption Limitations

Use the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.

Dry 1, 2, 3, 4, 5 & 6 will be limited to 1,126.9 mmcf of natural gas per 12 month consecutive period (no net increase in the fuel limit).



OAQ PROCESS INFORMATION APPLICATION
PI-02H: Combustion – Federal Rule Applicability
 State Form 52542 (R2 / 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 identify any federal rules that apply to the emission unit.
- Complete one PI-02H form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02H form to summarize the units.
- 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 anyone to inspect and photocopy.

| Federal Rule Applicability | | |
|--|---|--------------------|
| This table identifies any federal rules that apply to the process. | | |
| 1. Is a New Source Performance Standard (NSPS) applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2. Unit IDs |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Cb | Large Municipal Waste Combustors (<i>constructed before 9/20/1994</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Ce | Hospital/Medical/Infectious Waste Incinerators | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart D | Fossil-Fuel-Fired Steam Generators (<i>constructed after 8/17/1971</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Da | Electric Utility Steam Generating Units (<i>constructed after 9/18/1978</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Db | Industrial-Commercial-Institutional Generating Units | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Dc | Small Industrial-Commercial-Institutional Generating Units | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart E | Incinerators | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Ea | Municipal Waste Combustors (<i>constructed after 12/20/1989 and before 9/20/1994</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Eb | Large Municipal Waste Combustors (<i>constructed after 9/20/1994 or modified / reconstructed after 6/19/1996</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Ec | Hospital/Medical/Infectious Waste Incinerators (<i>constructed after 6/20/1996</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart O | Sewage Treatment Plants (<i>sludge burners</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart Y | Coal Preparation Plants | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart GG | Stationary Gas Turbines | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart AAA | New Residential Wood Heaters | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart AAAA | Small Municipal Waste Combustion Units (<i>constructed after 8/30/1999 or modified / reconstructed after 6/6/2001</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart BBBB | Small Municipal Waste Combustion Units (<i>constructed on or before 8/30/1999</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart CCCC | Commercial and Industrial Solid Waste Incineration Units (<i>constructed after 11/30/1999 or modified / reconstructed after 6/1/2001</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart DDDD | Commercial and Industrial Solid Waste Incineration Units (<i>constructed on or before 11/30/1999</i>) | |
| <input type="checkbox"/> 40 CFR Part 60, Subpart KKKK | Stationary Combustion Turbines | |

Federal Rule Applicability (continued)

This table identifies any federal rules that apply to the process.

| 3. Is a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 4. Unit IDs |
|--|---|--------------------|
| <input type="checkbox"/> 40 CFR Part 63, Subpart MM | Combustion Sources at Kraft, Soda, and Sulfite Pulp & Paper Mills | |
| <input type="checkbox"/> 40 CFR Part 63, Subpart EEE | Hazardous Waste Combustion | |
| <input type="checkbox"/> 40 CFR Part 63, Subpart YYYY | Stationary Combustion Turbines | |
| <input type="checkbox"/> 40 CFR Part 63, Subpart ZZZZ | Reciprocating Internal Combustion Engines (RICE) | |
| <input type="checkbox"/> 40 CFR Part 63, Subpart DDDDD | Industrial, Commercial, and Institutional Boilers and Process Heaters | |

5. Non-Applicability Determination: *Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.*

(This area is intentionally left blank for providing an explanation.)

This space was intentionally left blank.



OAQ Process Information Application
PI-01: MISCELLANEOUS PROCESS
 State Form 52534 (2-06)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



IDEM – Office of Air Quality – Permits Branch
 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or
 Toll Free: 1-800-451-6027 x30178 (within Indiana)
 Facsimile Number: (317) 232-6749
www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of this form is to obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is required form.
- Detailed instructions for this form are available online at www.in.gov/idem/air/permits/apps/instructions/pi01instructions.html.
- 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 any one to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. **Unit ID:** EU106 Debagger

2. **Installation Date:** 1/1/2013
(actual or anticipated)

3. **How many (identical) process units are identified in this form?** One More than one (specify number) : _____

4. **Process Description:**

One new debagger for the small lot system with a capacity of 1000 bushels/hour. The new debagger will exhaust to existing baghouse CE-14.

5. **Maximum Production Rate (specify units):** 1000.00 bu/hr each

6. **Fuel Used:** Not Applicable Natural Gas Only Other – Attach completed PI-02F form.

7. **Add-On Control Technology:** Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- | | |
|--|--|
| <input type="checkbox"/> None | |
| <input checked="" type="checkbox"/> Baghouse / Fabric Filter – Attach CE-02. | <input type="checkbox"/> Cyclone – Attach CE-03. |
| <input type="checkbox"/> Electrostatic Precipitator – Attach CE-04. | <input type="checkbox"/> Absorption / Wet Collector / Scrubber – Attach CE-05. |
| <input type="checkbox"/> Oxidizer / Incinerator – Attach CE-06. | <input type="checkbox"/> Adsorber – Attach CE-07. |
| <input type="checkbox"/> Condenser – Attach CE-08. | <input type="checkbox"/> Reduction – Attach CE-09. |
| <input type="checkbox"/> Other (specify): | – Attach CE-10. |

8. **Control Techniques:** Identify all control techniques used for this process.

The debagger will exhaust to existing baghouse CE-14. Even through this collector is in place, Monsanto believes that this collector is not required to meet emission limits contained 326 IAC 6-3-2. Monsanto requests that the permit not include requirements to operate this collector. Potential emissions for this unit do not take into account controls from the dust collector.

9. **Process Limitations / Additional Information:** Identify any acceptable process limitations. Attach additional information if necessary.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|---|-------------------|---------------------|--------|---|--------------------------------|
| | | value | units | | |
| EU106 Debagger | PM | 0.061 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| EU106 Debagger | PM10 | 0.03 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| EU106 Debagger | PM2.5 | 0.00 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|--|--------------------------------------|
| Corn - EU106 Debagger (small lot system) | 56000.00 |
| | |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is 1,806,040 bushels, which is less than the NSPS applicability threshold.



OAQ Process Information Application
PI-01: MISCELLANEOUS PROCESS
 State Form 52534 (2-06)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



IDEM – Office of Air Quality – Permits Branch
 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or
 Toll Free: 1-800-451-6027 x30178 (within Indiana)
 Facsimile Number: (317) 232-6749
www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of this form is to obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is required form.
- Detailed instructions for this form are available online at www.in.gov/idem/air/permits/apps/instructions/pi01instructions.html.
- 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 any one to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. **Unit ID:** Huskers 1 & 2

2. **Installation Date:** 1/1/2013
(actual or anticipated)

3. **How many (identical) process units are identified in this form?** One More than one (specify number) : 2

4. **Process Description:**

One new husk bed will be added to the six existing husk beds on Husker 1 & Husker 2 lines. Each husk/sort bed line will have no increase in capacity.

5. **Maximum Production Rate (specify units):** 2000.00 bu/hr each

6. **Fuel Used:** Not Applicable Natural Gas Only Other – Attach completed PI-02F form.

7. **Add-On Control Technology:** Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- None
- Baghouse / Fabric Filter – Attach CE-02. Cyclone – Attach CE-03.
- Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / Scrubber – Attach CE-05.
- Oxidizer / Incinerator – Attach CE-06. Adsorber – Attach CE-07.
- Condenser – Attach CE-08. Reduction – Attach CE-09.
- Other (specify): _____ – Attach CE-10.

8. **Control Techniques:** Identify all control techniques used for this process.

None.

9. **Process Limitations / Additional Information:** Identify any acceptable process limitations. Attach additional information if necessary.

Husking 1, 2, 3 & 4 will be limited to 200,000 tons per year of wet ear corn.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|---|-------------------|---------------------|--------|---|--------------------------------|
| | | value | units | | |
| Huskers 1 & 2 | PM | 0.061 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Huskers 1 & 2 | PM10 | 0.03 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|---|--------------------------------------|
| Wet Ear Corn - Husker 1 (material usage rate in bushels per hour) | 2000.00 |
| Wet Ear Corn - Husker 2 (material usage rate in bushels per hour) | 2000.00 |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is 1,806,040 bushels, which is less than the NSPS applicability threshold.



OAQ PROCESS INFORMATION APPLICATION

PI-01: Miscellaneous Process

State Form 52534 (R2 / 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 obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is a required form.
- 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 anyone to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. **Unit ID:** Shelled Corn Loadout

2. **Installation Date:** 1/1/2013
(actual or anticipated)

3. **How many (identical) process units are identified in this form?** One More than one (specify number) : _____

4. **Process Description:**

New Shelled Corn Loadout with a capacity of 2,500 bushels per hours exhausting to baghouse CE-34R (House Dust System)

5. **Maximum Production Rate (specify units):** 2500.00 bushels/hour

6. **Fuel Used:** Not Applicable Natural Gas Only Other – Attach completed PI-02F form.

7. **Add-On Control Technology:** Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- None
- Baghouse / Fabric Filter – Attach CE-02. Cyclone – Attach CE-03.
- Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / Scrubber – Attach CE-05.
- Oxidizer / Incinerator – Attach CE-06. Adsorber – Attach CE-07.
- Condenser – Attach CE-08. Reduction – Attach CE-09.
- Other (specify): _____ – Attach CE-10.

8. **Control Techniques:** Identify all control techniques used for this process.

Dust Collector - CE35R (House Dust System). Even through this collector is in place, Monsanto believes that this collector is not required to meet emission limits contained 326 IAC 6-3-2. Monsanto requests that the permit not include requirements to operate this collector. Potential emissions for this unit are are computed taking into account enforceable throughput limits but do not take into account controls from the dust collector.

9. **Process Limitations / Additional Information:** Identify any acceptable process limitations. Attach additional information if necessary.

The shelled corn loadout will be limited to 150,000 tons per year.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|---|-------------------|---------------------|--------|---|--------------------------------|
| | | value | units | | |
| Shelled Corn Loadout | PM | 0.08 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | PM10 | 0.02 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | PM2.5 | 0.00 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|-------------------------|--------------------------------------|
| Corn (bushels/hour) | 2500.00 |
| | |
| | |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is less than the NSPS applicability threshold.



OAQ PROCESS INFORMATION APPLICATION

PI-01: Miscellaneous Process

State Form 52534 (R2 / 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 obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is a required form.
- 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 anyone to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. Unit ID: Shelled Corn Receiving

2. Installation Date: 1/1/2013
(actual or anticipated)

3. How many (identical) process units are identified in this form? One More than one (specify number) : _____

4. Process Description:

New Shelled Corn Receiving with a capacity of 5,000 bushels per hours exhausting to baghouse CE-35 (Harvest Dust System)

5. Maximum Production Rate (specify units): 5000.00 bushels/hour

6. Fuel Used: Not Applicable Natural Gas Only Other – Attach completed PI-02F form.

7. Add-On Control Technology: Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- None
- Baghouse / Fabric Filter – Attach CE-02. Cyclone – Attach CE-03.
- Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / Scrubber – Attach CE-05.
- Oxidizer / Incinerator – Attach CE-06. Adsorber – Attach CE-07.
- Condenser – Attach CE-08. Reduction – Attach CE-09.
- Other (specify): _____ – Attach CE-10.

8. Control Techniques: Identify all control techniques used for this process.

Dust Collector - CE35 (Harvest Dust System). Even through this collector is in place, Monsanto believes that this collector is not required to meet emission limits contained 326 IAC 6-3-2. Monsanto requests that the permit not include requirements to operate this collector. Potential emissions for this unit are are computed taking into account enforceable throughput limits but do not take into account controls from the dust collector.

9. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.

Limited dry shelled corn capacity of 150,000 tons per year.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|--|-------------------|---------------------|--------|---|--------------------------------|
| | | value | units | | |
| Shelled Corn Receiving | PM | 0.03 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | PM10 | 0.00 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | PM2.5 | 0.00 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|------------------------------------|--------------------------------------|
| Corn (bushels/hour) | 5000.00 |
| Dry Shelled Corn Limit (tons/year) | 150000.00 |
| | |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is less than the NSPS applicability threshold.



OAQ PROCESS INFORMATION APPLICATION

PI-01: Miscellaneous Process

State Form 52534 (R2 / 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 obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is a required form.
- 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 anyone to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. Unit ID: Sheller 3

2. Installation Date: 1/1/2013
(actual or anticipated)

3. How many (identical) process units are identified in this form? One More than one (specify number) : _____

4. Process Description:

One (1) corn sheller, identified as Sheller #3, approved for construction in 2013, exhausting to a baghouse for particulate control, identified as CE15c, capacity: 2,500 bushers (140,000 pounds) of corn per hour.

5. Maximum Production Rate (specify units): 2500.00 bushels/hour

6. Fuel Used: Not Applicable Natural Gas Only Other – Attach completed PI-02F form.

7. Add-On Control Technology: Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- None
- Baghouse / Fabric Filter – Attach CE-02. Cyclone – Attach CE-03.
- Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / Scrubber – Attach CE-05.
- Oxidizer / Incinerator – Attach CE-06. Adsorber – Attach CE-07.
- Condenser – Attach CE-08. Reduction – Attach CE-09.
- Other (specify): _____ – Attach CE-10.

8. Control Techniques: Identify all control techniques used for this process.

Dust Collector - CE15c

9. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.

The new Sheller 3 will be limited to 2,500 hours per year.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|---|--------------------------------|---------------------|---------|---|---|
| | | value | units | | |
| Sheller 3 | PM/PM10/PM2.5 0.006 gr/dscf | 0.00 | gr/dscf | <input type="checkbox"/> AP-42 | <input checked="" type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|-------------------------|--------------------------------------|
| Corn | 140000.00 |
| | |
| | |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is less than the NSPS applicability threshold.

**OAQ PROCESS INFORMATION APPLICATION****PI-01: Miscellaneous Process**

State Form 52534 (R2 / 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 obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is a required form.
- 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 anyone to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. **Unit ID:** Sheller Aspirator 3 & 42. **Installation Date:** 1/1/2013
*(actual or anticipated)*3. **How many (identical) process units are identified in this form?** One More than one (specify number) : 24. **Process Description:**

New Sheller Aspirator 3 & 4 with a capacity of 70 tons/hour each, venting to baghouse CE-16.

5. **Maximum Production Rate (specify units):** 70.00 tons/hour each6. **Fuel Used:** Not Applicable Natural Gas Only Other – Attach completed PI-02F form.7. **Add-On Control Technology:** Identify all control technologies used for this unit, and attach completed CE-01 (unless "none"). None Baghouse / Fabric Filter – Attach CE-02. Cyclone – Attach CE-03. Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / Scrubber – Attach CE-05. Oxidizer / Incinerator – Attach CE-06. Adsorber – Attach CE-07. Condenser – Attach CE-08. Reduction – Attach CE-09. Other (specify):

– Attach CE-10.

8. **Control Techniques:** Identify all control techniques used for this process.

Dust Collector - CE16

9. **Process Limitations / Additional Information:** Identify any acceptable process limitations. Attach additional information if necessary.

The Sheller Aspirators will be limited to 150,000 tons per year of dry shelled corn throughput.

PART B: Emission Factors

Part B identifies all emission factors used to calculate air emissions from this process.

| 10. Process Unit (& ID, if applicable) | 11. Air Pollutant | 12. Emission Factor | | 13. Source of Emission Factor (if not using AP-42, include calculations) | |
|--|-------------------|---------------------|--------|---|--------------------------------|
| | | value | units | | |
| Sheller Aspirator 3 & 4 | PM | 0.06 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | PM10 | 0.03 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | PM2.5 | 0.00 | lb/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART C: Processed Materials

Part C identifies the materials processed and the raw material usage.

| 14. Materials Processed | 15. Raw Materials Usage Rate (lb/hr) |
|---|--------------------------------------|
| Corn (total for both Sheller Aspirator 3 & 4) | 140000.00 |
| | |
| | |
| | |
| | |
| | |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

16. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 60, Subpart _____

17. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
 Attach a completed FED-01 for each rule that applies.

40 CFR Part 61, Subpart _____

40 CFR Part 63, Subpart _____

18. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is less than the NSPS applicability threshold.



OAQ PROCESS INFORMATION APPLICATION
PI-03: Storage & Handling of Bulk Material
 State Form 52543 (R2 / 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 obtain detailed information about the storage and handling of bulk materials. Complete one form for each process (or group of identical processes). Use additional forms if necessary. 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, available for anyone to inspect and photocopy.

PART A: Storage & Handling Information

Part A identifies all process units associated with storage and handling process for bulk materials. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data.

| 1. Equipment / Component Type | 2. Unit ID | 3. Number of Identical Units | 4. Installation Date <i>(see instructions)</i> | 5. Material Handled/ Stored | 6. Maximum Materials Throughput Rate <i>(tons/year)</i> |
|---|---|------------------------------|---|--|--|
| Storage Bins (See attached sheet that lists the 80 new bins) | Storage Bins | | 1/1/2013 | Corn 40 new bins - 7,500 bushels each 40 new bins - 5,000 bushels each | 150000.00 |
| (4) Shelled Corn Load Out bins | Load Out bin 31.830, 31.840, 31.850, 31.860 | 4 | 1/1/2013 | Corn Each Bin - 2,580 bushels | 150000.00 |
| 31.900 Dust Bin | 31.900 (dust bin) | 1 | 1/1/2013 | Dust - 3,000 cubic feet (60,000 pounds) | 150000.00 |
| (4) Cob bins | Cob Bins, 31.810, 31.820, 31.870, 31.880 | 4 | 1/1/2013 | Cobs - 2,832 cubic feet each (48,144 pounds each) | 150000.00 |

7. Add-On Control Technology: Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

- None
 Baghouse / Fabric Filter – Attach CE-02.
 Electrostatic Precipitator – Attach CE-04.
 Adsorber – Attach CE-07.
 Cyclone – Attach CE-03.
 Absorption / Wet Collector / Scrubber – Attach CE-05.
 Other (specify): _____ – Attach CE-10.

8. Control Techniques: Identify any other air emission control options used for the process.

Each new storage bin is equipped with a bin vent for control.
 The dust bin and (4) Cob Bins are controlled by CE-35 (Harvest Dust System an existing dust collector).
 The four shelled Corn Loadout Bins are controlled by an existing dust collector identified as CE-34R (House Dust System).

9. Process Limitations / Additional Information: *Identify any acceptable process limitations. Attach additional information if necessary.*

PART B: Process Material Information

Part B summarizes the process material information. Provide the information in the items below for each material stored and/or handled in this process.

| 10. Material Handled/Stored <i>(from table above)</i> | 11. Method of Handling | 12. Type of Storage | 13. Storage Capacity <i>(tons)</i> | 14. Pile Acreage | 15. Silt Content <i>(% by weight)</i> | 16. Moisture Content <i>(% by weight)</i> |
|--|------------------------|---------------------|---------------------------------------|------------------|--|--|
| Corn | legs, conveyors | Bins | 50569.00 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

PART C: Emission Factors

Part C identifies all emission factors used to calculate air emissions from the process units listed on this form.

| 17. Process Equipment & ID <i>(complete for all units listed in Part A of this form)</i> | 18. Air Pollutant | 19. Emission Factor | | 20. Source of Emission Factor <i>(if not using AP-42, include calculations)</i> | |
|---|-------------------|---------------------|---------|--|--------------------------------|
| | | value | units | | |
| Storage bins, Dust Bin, Cob bins & Loadout bins | PM | 0.02 | lbs/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| Storage bins, Dust Bin, Cob bins & Loadout bins | PM-10 | 0.00 | lbs/ton | <input checked="" type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 | <input type="checkbox"/> Other |

PART D: Federal Rule Applicability

Part D identifies any federal rules that apply to the process.

21. Is a **New Source Performance Standard (NSPS)** applicable to this source? Yes No
If yes, attach a completed FED-01 for each rule that applies.

- 40 CFR Part 60, Subpart CC Glass Manufacturing Plants
- 40 CFR Part 60, Subpart DD Grain Elevators
- 40 CFR Part 60, Subpart HH Lime Manufacturing Plants
- 40 CFR Part 60, Subpart LL Metallic Mineral Processing Plants
- 40 CFR Part 60, Subpart UU Asphalt Processing and Asphalt Roofing Manufacture
- 40 CFR Part 60, Subpart OOO Non-Metallic Mineral Processing Plants
- 40 CFR Part 60, Subpart UUU Calciners and Dryers in Mineral Industries

22. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? Yes No
If yes, attach a completed FED-01 for each rule that applies.

- 40 CFR Part 61, Subpart _____ *(Specify):*
- 40 CFR Part 63, Subpart _____ *(Specify):*

23. **Non-Applicability Determination:** Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Total storage capacity is 1,806,040 bushels, which is less than the NSPS applicability threshold

| | Qty | Capacity | |
|--------------------|-----|----------|----------------|
| Dryer 1 | 20 | 1011 | 20,220 |
| Dryer 2 | 20 | 1011 | 20,220 |
| Dryer 3 | 18 | 2000 | 36,000 |
| Dryer 4 | 18 | 2000 | 36,000 |
| Dryer 5 | 28 | 2000 | 56,000 |
| Dryer 6 | 28 | 2000 | 56,000 |
| Dryer total | | | 224,440 |

| | | | |
|---------------------------|-----|------|------------------|
| Bulk Storage | 124 | 7500 | 930,000 |
| Bulk Storage | 124 | 5000 | 620,000 |
| Loadout | 4 | 2500 | 10,000 |
| Shelled Corn Total | | | 1,560,000 |

| | | | |
|---------------------------|----|-----|---------------|
| Storage Bins line 1 | 12 | 600 | 7,200 |
| Storage Bins line 2 | 12 | 600 | 7,200 |
| Treating and packagin | 12 | 600 | 7,200 |
| Conditioning Total | | | 21,600 |

| | | | |
|-------------------------------|--|--|------------------|
| Total One Time Storage | | | 1,806,040 |
|-------------------------------|--|--|------------------|

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-1 | 9.01 | Demo | 1977 | 11,000 |
| B-2 | 9.02 | Demo | 1977 | 11,000 |
| B-3 | 9.03 | Demo | 1977 | 11,000 |
| B-4 | 9.04 | Demo | 1977 | 11,000 |
| B-5 | 9.05 | Demo | 1977 | 15,000 |
| B-6 | 9.06 | Demo | 1977 | 15,000 |
| B-7 | 9.07 | Demo | 1977 | 15,000 |
| B-8 | 9.08 | Demo | 1977 | 15,000 |
| B-9 | 9.09 | Demo | 1977 | 11,000 |
| B-10 | 9.10 | Demo | 1977 | 11,000 |
| B-11 | 9.11 | Demo | 1977 | 11,000 |
| B-12 | 9.12 | Demo | 1977 | 11,000 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-31 | 1.01 | 451.01 | 1999 | 7,500 |
| B-32 | 1.02 | 451.02 | 1999 | 7,500 |
| B-33 | 1.03 | 451.03 | 1999 | 7,500 |
| B-34 | 1.04 | 451.04 | 1999 | 7,500 |
| B-35 | 1.05 | 451.05 | 1999 | 7,500 |
| B-41 | 1.06 | 451.06 | 2007 | 7,500 |
| B-42 | 1.07 | 451.07 | 2007 | 7,500 |
| B-43 | 1.08 | 451.08 | 2007 | 7,500 |
| B-44 | 1.09 | 451.09 | 2007 | 7,500 |
| B-45 | 1.10 | 451.10 | 2007 | 7,500 |
| B-46 | 1.11 | 451.11 | 2007 | 7,500 |
| B-47 | 1.12 | 451.12 | 2007 | 7,500 |
| B-48 | 1.13 | 451.13 | 2007 | 7,500 |
| B-73 | 1.14 | 451.14 | 2008 | 7,500 |
| B-74 | 1.15 | 451.15 | 2008 | 7,500 |
| B-75 | 1.16 | 451.16 | 2008 | 7,500 |
| B-76 | 1.17 | 451.17 | 2008 | 7,500 |
| B-77 | 1.18 | 451.18 | 2008 | 7,500 |
| B-78 | 1.19 | 451.19 | 2008 | 7,500 |
| B-79 | 1.20 | 451.20 | 2008 | 7,500 |
| B-80 | 1.21 | 451.21 | 2008 | 7,500 |
| B-81 | 1.22 | 451.22 | 2008 | 7,500 |
| B-82 | 1.23 | 451.23 | 2008 | 7,500 |
| B-83 | 1.24 | 451.24 | 2008 | 7,500 |
| B-84 | 1.25 | 451.25 | 2008 | 7,500 |
| B-85 | 1.26 | 451.26 | 2008 | 7,500 |
| B-86 | 1.27 | 451.27 | 2008 | 7,500 |
| B-87 | 1.28 | 451.28 | 2008 | 7,500 |
| B-88 | 1.29 | 451.29 | 2008 | 7,500 |
| B-89 | 1.30 | 451.30 | 2008 | 7,500 |
| B-90 | 1.31 | 451.31 | 2008 | 7,500 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-21 | 2.01 | 452.01 | 1999 | 5,000 |
| B-22 | 2.02 | 452.02 | 1999 | 5,000 |
| B-23 | 2.03 | 452.03 | 1999 | 5,000 |
| B-24 | 2.04 | 452.04 | 1999 | 5,000 |
| B-25 | 2.05 | 452.05 | 1999 | 5,000 |
| B-57 | 2.06 | 452.06 | 2007 | 5,000 |
| B-58 | 2.07 | 452.07 | 2007 | 5,000 |
| B-59 | 2.08 | 452.08 | 2007 | 5,000 |
| B-60 | 2.09 | 452.09 | 2007 | 5,000 |
| B-61 | 2.10 | 452.10 | 2007 | 5,000 |
| B-62 | 2.11 | 452.11 | 2007 | 5,000 |
| B-63 | 2.12 | 452.12 | 2007 | 5,000 |
| B-64 | 2.13 | 452.13 | 2007 | 5,000 |
| B-109 | 2.14 | 452.14 | 2008 | 5,000 |
| B-110 | 2.15 | 452.15 | 2008 | 5,000 |
| B-111 | 2.16 | 452.16 | 2008 | 5,000 |
| B-112 | 2.17 | 452.17 | 2008 | 5,000 |
| B-113 | 2.18 | 452.18 | 2008 | 5,000 |
| B-114 | 2.19 | 452.19 | 2008 | 5,000 |
| B-115 | 2.20 | 452.20 | 2008 | 5,000 |
| B-116 | 2.21 | 452.21 | 2008 | 5,000 |
| B-117 | 2.22 | 452.22 | 2008 | 5,000 |
| B-118 | 2.23 | 452.23 | 2008 | 5,000 |
| B-119 | 2.24 | 452.24 | 2008 | 5,000 |
| B-120 | 2.25 | 452.25 | 2008 | 5,000 |
| B-121 | 2.26 | 452.26 | 2008 | 5,000 |
| B-122 | 2.27 | 452.27 | 2008 | 5,000 |
| B-123 | 2.28 | 452.28 | 2008 | 5,000 |
| B-124 | 2.29 | 452.29 | 2008 | 5,000 |
| B-125 | 2.30 | 452.30 | 2008 | 5,000 |
| B-126 | 2.31 | 452.31 | 2008 | 5,000 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-26 | 3.01 | 453.01 | 1999 | 5,000 |
| B-27 | 3.02 | 453.02 | 1999 | 5,000 |
| B-28 | 3.03 | 453.03 | 1999 | 5,000 |
| B-29 | 3.04 | 453.04 | 1999 | 5,000 |
| B-30 | 3.05 | 453.05 | 1999 | 5,000 |
| B-65 | 3.06 | 453.06 | 2007 | 5,000 |
| B-66 | 3.07 | 453.07 | 2007 | 5,000 |
| B-67 | 3.08 | 453.08 | 2007 | 5,000 |
| B-68 | 3.09 | 453.09 | 2007 | 5,000 |
| B-69 | 3.10 | 453.10 | 2007 | 5,000 |
| B-70 | 3.11 | 453.11 | 2007 | 5,000 |
| B-71 | 3.12 | 453.12 | 2007 | 5,000 |
| B-72 | 3.13 | 453.13 | 2007 | 5,000 |
| B-127 | 3.14 | 453.14 | 2008 | 5,000 |
| B-128 | 3.15 | 453.15 | 2008 | 5,000 |
| B-129 | 3.16 | 453.16 | 2008 | 5,000 |
| B-130 | 3.17 | 453.17 | 2008 | 5,000 |
| B-131 | 3.18 | 453.18 | 2008 | 5,000 |
| B-132 | 3.19 | 453.19 | 2008 | 5,000 |
| B-133 | 3.20 | 453.20 | 2008 | 5,000 |
| B-134 | 3.21 | 453.21 | 2008 | 5,000 |
| B-135 | 3.22 | 453.22 | 2008 | 5,000 |
| B-136 | 3.23 | 453.23 | 2008 | 5,000 |
| B-137 | 3.24 | 453.24 | 2008 | 5,000 |
| B-138 | 3.25 | 453.25 | 2008 | 5,000 |
| B-139 | 3.26 | 453.26 | 2008 | 5,000 |
| B-140 | 3.27 | 453.27 | 2008 | 5,000 |
| B-141 | 3.28 | 453.28 | 2008 | 5,000 |
| B-142 | 3.29 | 453.29 | 2008 | 5,000 |
| B-143 | 3.30 | 453.30 | 2008 | 5,000 |
| B-144 | 3.31 | 453.31 | 2008 | 5,000 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-36 | 4.01 | 454.01 | 1999 | 7,500 |
| B-37 | 4.02 | 454.02 | 1999 | 7,500 |
| B-38 | 4.03 | 454.03 | 1999 | 7,500 |
| B-39 | 4.04 | 454.04 | 1999 | 7,500 |
| B-40 | 4.05 | 454.05 | 1999 | 7,500 |
| B-49 | 4.06 | 454.06 | 2007 | 7,500 |
| B-50 | 4.07 | 454.07 | 2007 | 7,500 |
| B-51 | 4.08 | 454.08 | 2007 | 7,500 |
| B-52 | 4.09 | 454.09 | 2007 | 7,500 |
| B-53 | 4.10 | 454.10 | 2007 | 7,500 |
| B-54 | 4.11 | 454.11 | 2007 | 7,500 |
| B-55 | 4.12 | 454.12 | 2007 | 7,500 |
| B-56 | 4.13 | 454.13 | 2007 | 7,500 |
| B-91 | 4.14 | 454.14 | 2008 | 7,500 |
| B-92 | 4.15 | 454.15 | 2008 | 7,500 |
| B-93 | 4.16 | 454.16 | 2008 | 7,500 |
| B-94 | 4.17 | 454.17 | 2008 | 7,500 |
| B-95 | 4.18 | 454.18 | 2008 | 7,500 |
| B-96 | 4.19 | 454.19 | 2008 | 7,500 |
| B-97 | 4.20 | 454.20 | 2008 | 7,500 |
| B-98 | 4.21 | 454.21 | 2008 | 7,500 |
| B-99 | 4.22 | 454.22 | 2008 | 7,500 |
| B-100 | 4.23 | 454.23 | 2008 | 7,500 |
| B-101 | 4.24 | 454.24 | 2008 | 7,500 |
| B-102 | 4.25 | 454.25 | 2008 | 7,500 |
| B-103 | 4.26 | 454.26 | 2008 | 7,500 |
| B-104 | 4.27 | 454.27 | 2008 | 7,500 |
| B-105 | 4.28 | 454.28 | 2008 | 7,500 |
| B-106 | 4.29 | 454.29 | 2008 | 7,500 |
| B-107 | 4.30 | 454.30 | 2008 | 7,500 |
| B-108 | 4.31 | 454.31 | 2008 | 7,500 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-166 | 5.01 | 455.01 | 2009 | 7,500 |
| B-167 | 5.02 | 455.02 | 2009 | 7,500 |
| B-168 | 5.03 | 455.03 | 2009 | 7,500 |
| B-169 | 5.04 | 455.04 | 2009 | 7,500 |
| B-170 | 5.05 | 455.05 | 2009 | 7,500 |
| B-171 | 5.06 | 455.06 | 2009 | 7,500 |
| B-172 | 5.07 | 455.07 | 2009 | 7,500 |
| B-173 | 5.08 | 455.08 | 2009 | 7,500 |
| B-174 | 5.09 | 455.09 | 2009 | 7,500 |
| B-175 | 5.10 | 455.10 | 2009 | 7,500 |
| B-176 | 5.11 | 455.11 | 2009 | 7,500 |
| | | 455.12 | 2013 | 7,500 |
| | | 455.13 | 2013 | 7,500 |
| | | 455.14 | 2013 | 7,500 |
| | | 455.15 | 2013 | 7,500 |
| | | 455.16 | 2013 | 7,500 |
| | | 455.17 | 2013 | 7,500 |
| | | 455.18 | 2013 | 7,500 |
| | | 455.19 | 2013 | 7,500 |
| | | 455.20 | 2013 | 7,500 |
| | | 455.21 | 2013 | 7,500 |
| | | 455.22 | 2013 | 7,500 |
| | | 455.23 | 2013 | 7,500 |
| | | 455.24 | 2013 | 7,500 |
| | | 455.25 | 2013 | 7,500 |
| | | 455.26 | 2013 | 7,500 |
| | | 455.27 | 2013 | 7,500 |
| | | 455.28 | 2013 | 7,500 |
| | | 455.29 | 2013 | 7,500 |
| | | 455.30 | 2013 | 7,500 |
| | | 455.31 | 2013 | 7,500 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-144 | 6.01 | 456.01 | 2009 | 5,000 |
| B-145 | 6.02 | 456.02 | 2009 | 5,000 |
| B-146 | 6.03 | 456.03 | 2009 | 5,000 |
| B-147 | 6.04 | 456.04 | 2009 | 5,000 |
| B-148 | 6.05 | 456.05 | 2009 | 5,000 |
| B-149 | 6.06 | 456.06 | 2009 | 5,000 |
| B-150 | 6.07 | 456.07 | 2009 | 5,000 |
| B-151 | 6.08 | 456.08 | 2009 | 5,000 |
| B-152 | 6.09 | 456.09 | 2009 | 5,000 |
| B-153 | 6.10 | 456.10 | 2009 | 5,000 |
| B-154 | 6.11 | 456.11 | 2009 | 5,000 |
| | | 456.12 | 2013 | 5,000 |
| | | 456.13 | 2013 | 5,000 |
| | | 456.14 | 2013 | 5,000 |
| | | 456.15 | 2013 | 5,000 |
| | | 456.16 | 2013 | 5,000 |
| | | 456.17 | 2013 | 5,000 |
| | | 456.18 | 2013 | 5,000 |
| | | 456.19 | 2013 | 5,000 |
| | | 456.20 | 2013 | 5,000 |
| | | 456.21 | 2013 | 5,000 |
| | | 456.22 | 2013 | 5,000 |
| | | 456.23 | 2013 | 5,000 |
| | | 456.24 | 2013 | 5,000 |
| | | 456.25 | 2013 | 5,000 |
| | | 456.26 | 2013 | 5,000 |
| | | 456.27 | 2013 | 5,000 |
| | | 456.28 | 2013 | 5,000 |
| | | 456.29 | 2013 | 5,000 |
| | | 456.30 | 2013 | 5,000 |
| | | 456.31 | 2013 | 5,000 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-155 | 7.01 | 457.01 | 2009 | 5,000 |
| B-156 | 7.02 | 457.02 | 2009 | 5,000 |
| B-157 | 7.03 | 457.03 | 2009 | 5,000 |
| B-158 | 7.04 | 457.04 | 2009 | 5,000 |
| B-159 | 7.05 | 457.05 | 2009 | 5,000 |
| B-160 | 7.06 | 457.06 | 2009 | 5,000 |
| B-161 | 7.07 | 457.07 | 2009 | 5,000 |
| B-162 | 7.08 | 457.08 | 2009 | 5,000 |
| B-163 | 7.09 | 457.09 | 2009 | 5,000 |
| B-164 | 7.10 | 457.10 | 2009 | 5,000 |
| B-165 | 7.11 | 457.11 | 2009 | 5,000 |
| | | 457.12 | 2013 | 5,000 |
| | | 457.13 | 2013 | 5,000 |
| | | 457.14 | 2013 | 5,000 |
| | | 457.15 | 2013 | 5,000 |
| | | 457.16 | 2013 | 5,000 |
| | | 457.17 | 2013 | 5,000 |
| | | 457.18 | 2013 | 5,000 |
| | | 457.19 | 2013 | 5,000 |
| | | 457.20 | 2013 | 5,000 |
| | | 457.21 | 2013 | 5,000 |
| | | 457.22 | 2013 | 5,000 |
| | | 457.23 | 2013 | 5,000 |
| | | 457.24 | 2013 | 5,000 |
| | | 457.25 | 2013 | 5,000 |
| | | 457.26 | 2013 | 5,000 |
| | | 457.27 | 2013 | 5,000 |
| | | 457.28 | 2013 | 5,000 |
| | | 457.29 | 2013 | 5,000 |
| | | 457.30 | 2013 | 5,000 |
| | | 457.31 | 2013 | 5,000 |

| Old Old ID | Old ID | New ID | Year of Construction | Capacity |
|------------|--------|--------|----------------------|----------|
| B-177 | 8.01 | 458.01 | 2009 | 7,500 |
| B-178 | 8.02 | 458.02 | 2009 | 7,500 |
| B-179 | 8.03 | 458.03 | 2009 | 7,500 |
| B-180 | 8.04 | 458.04 | 2009 | 7,500 |
| B-181 | 8.05 | 458.05 | 2009 | 7,500 |
| B-182 | 8.06 | 458.06 | 2009 | 7,500 |
| B-183 | 8.07 | 458.07 | 2009 | 7,500 |
| B-184 | 8.08 | 458.08 | 2009 | 7,500 |
| B-185 | 8.09 | 458.09 | 2009 | 7,500 |
| B-186 | 8.10 | 458.10 | 2009 | 7,500 |
| B-187 | 8.11 | 458.11 | 2009 | 7,500 |
| | | 458.12 | 2013 | 7,500 |
| | | 458.13 | 2013 | 7,500 |
| | | 458.14 | 2013 | 7,500 |
| | | 458.15 | 2013 | 7,500 |
| | | 458.16 | 2013 | 7,500 |
| | | 458.17 | 2013 | 7,500 |
| | | 458.18 | 2013 | 7,500 |
| | | 458.19 | 2013 | 7,500 |
| | | 458.20 | 2013 | 7,500 |
| | | 458.21 | 2013 | 7,500 |
| | | 458.22 | 2013 | 7,500 |
| | | 458.23 | 2013 | 7,500 |
| | | 458.24 | 2013 | 7,500 |
| | | 458.25 | 2013 | 7,500 |
| | | 458.26 | 2013 | 7,500 |
| | | 458.27 | 2013 | 7,500 |
| | | 458.28 | 2013 | 7,500 |
| | | 458.29 | 2013 | 7,500 |
| | | 458.30 | 2013 | 7,500 |
| | | 458.31 | 2013 | 7,500 |



OAQ PROCESS INFORMATION APPLICATION
PI-12: Grain Elevators
 State Form 52552 (R2 / 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 obtain detailed information about the grain elevator process. Complete one form for each elevator (or group of identical elevators). Use additional forms as necessary. 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, available for anyone to inspect and photocopy.

PART A: Grain Elevator Summary

Part A summarizes the main parameters of the grain elevator operation.

1. Process Installation Date: 1/1/2013
(actual or anticipated)

| 2. Grain Variety: <i>(check all that apply)</i> | 3. Maximum Processing Rate: <i>(bushels/year)</i> | 4. Is the Grain Cleaned prior to processing? |
|---|---|---|
| <input checked="" type="checkbox"/> Corn | 8760000.00 | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes: % cleaned: |
| <input type="checkbox"/> Soybeans | | <input type="checkbox"/> No <input type="checkbox"/> Yes: % cleaned: |
| <input type="checkbox"/> Wheat | | <input type="checkbox"/> No <input type="checkbox"/> Yes: % cleaned: |
| <input type="checkbox"/> Oats | | <input type="checkbox"/> No <input type="checkbox"/> Yes: % cleaned: |
| <input type="checkbox"/> Other: | | <input type="checkbox"/> No <input type="checkbox"/> Yes: % cleaned: |

5. Is the Receiving Area open or enclosed? Open Enclosed

6. Loading Source: Truck () Rail () Barge ()
(check all that apply and indicate the percentage)
 Other: ()

PART B: Storage Details

Part B details the parameters specific to the drying operations of the grain elevator. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

| 7. Storage Units: <i>(check all that apply)</i> | 8. Quantity: | 9. Unit ID(s): | 10. Number of Times Filled Annually: | 11. Storage Capacity: <i>(bushels)</i> |
|---|---------------------|------------------------|---|--|
| <input type="checkbox"/> Silo(s) | | | | |
| <input checked="" type="checkbox"/> Bin(s) | 248 | See attached bin sheet | | 1806040.00 |
| <input type="checkbox"/> Other <i>(specify):</i> | | | | |
| Total Storage Capacity: | | | | 1806040.00 |

PART C: Grain Handling System Details

Part C details the parameters specific to the drying operations of the grain elevator. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

| 12. Grain Handling System: <i>(check all that apply)</i> | 13. Quantity: | 14. Unit ID(s): | 15. Are the Conveyors Totally Enclosed? | 16. Are the Transfer Points Totally Enclosed? |
|---|---------------|-----------------|---|---|
| <input type="checkbox"/> Auger | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Belt Conveyor | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Bucket Conveyor | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Drag Conveyor | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Pneumatic | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Other <i>(specify):</i> | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |

17. Spout Type: Fixed Down Spout Telescope Down Spout Dead Box Other:

PART D: Dryer Details

Part D details the parameters specific to the drying operations of the grain elevator. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

| 18. Dryer Types: <i>(check all that apply)</i> | 19. Quantity: | 20. Unit ID(s): | 21. Dryer Specific Parameters: | 22. Fuel Used: <i>(if "other", attach completed PI-02F form.)</i> |
|---|---------------|-----------------|---|--|
| <input type="checkbox"/> Column Dryer | | | Plate Perforation Diameter <i>(specify units):</i> | <input type="checkbox"/> NA <input type="checkbox"/> Natural Gas only <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Rack Dryer | | Dry 1-6 | Mesh Size <i>(specify units):</i> | <input type="checkbox"/> NA <input checked="" type="checkbox"/> Natural Gas only <input type="checkbox"/> Other |
| <input type="checkbox"/> Other <i>(specify):</i> | | | Drying Technique <i>(specify):</i> | <input type="checkbox"/> NA <input type="checkbox"/> Natural Gas only <input type="checkbox"/> Other |

PART E: Emission Factors

Part E identifies all emission factors used to calculate air emissions from this process.

| 23. Process Unit: <i>(& ID if applicable)</i> | 24. Air Pollutant: | 25. Emission Factor: | | 26. Source of Emission Factor <i>(if not using AP-42, include calculations)</i> |
|--|------------------------------------|----------------------|-------|--|
| | | value | units | |
| | see attached emission calculations | | | <input type="checkbox"/> AP-42 <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 <input type="checkbox"/> Other |
| | | | | <input type="checkbox"/> AP-42 <input type="checkbox"/> Other |

Appendix A: Emissions Calculations
 Processing - Unlimited Potential to Emit of New Equipment and Modified

Company Name: Monsanto Company
 Source Address: 15849 S US Hwy 231, Remington, IN 47977

Facility Throughput (Wet Ear Corn) = 200,000 tons/year*
 Facility Throughput Limit (dry shelled corn) = 150,000 tons/year*

Unlimited Potential to Emit

| Emission Unit | Unlimited Capacity (lb/hr) | Unlimited Capacity (ton/yr) | Unlimited Capacity (tons/year) | Pollutant | Emission Factor | Units | Source of EF (table published) | PM (TPY) | PM-10 (TPY) | PM-2.5 (TPY) | SOX (TPY) | NOX (TPY) | VOC (TPY) | CO (TPY) |
|---|----------------------------|-----------------------------|--------------------------------|-----------|-----------------|--------|--------------------------------|----------|-------------|--------------|-----------|-----------|-----------|----------|
| Dryers 686 (Grain Drying) Before Modification | 28,000 | 14 | 245,280 | PM | 0.47 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 57.64 | 14.72 | 2.45 | | | | |
| React Dryer - Self Cleaning Screens | lb/hr | ton/yr | ton/yr | PM10 | 0.12 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| SCC 3-02-005-27 | each | each | Total | PM2.5 | 0.020 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| Dryers 586 (Natural Gas) Before Modification | 160 | 0.157 | 2,748 | PM | 1.9 | lb/ton | AP-42, Tables 1.4-2 | 2.61 | 10.44 | 10.44 | 0.82 | 137.41 | 7.58 | 115.43 |
| React Dryer - Self Cleaning Screens | Each | each | Total | PM10 | 7.8 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| SCC 3-02-005-27 | | | | PM2.5 | 7.9 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| Dryers 586 (Natural Gas) After Modification | | | | SOX | 0.6 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| React Dryer - Self Cleaning Screens | | | | NOX | 100 | lb/ton | AP-42, Tables 1.4-1 | | | | | | | |
| SCC 3-02-005-27 | | | | VOC | 5.5 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| Dryers 586 (Grain Drying) After Modification | 43,588 | 22 | 381,656 | CO | 84 | lb/ton | AP-42, Tables 1.4-1 | | | | | | | |
| React Dryer - Self Cleaning Screens | lb/hr | ton/yr | ton/yr | PM | 0.47 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 89.69 | 22.90 | 3.82 | | | | |
| SCC 3-02-005-27 | each | each | Total | PM10 | 0.12 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| Dryers 586 (Natural Gas) After Modification | 292 | 0.247 | 4,328 | PM2.5 | -0.020 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| React Dryer - Self Cleaning Screens | Each | each | Total | PM | 1.9 | lb/ton | AP-42, Tables 1.4-2 | 4.11 | 16.45 | 16.45 | 1.30 | 216.42 | 11.80 | 181.80 |
| SCC 3-02-005-27 | | | | PM10 | 7.6 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| | | | | PM2.5 | 7.8 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| | | | | SOX | 0.6 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| | | | | NOX | 100 | lb/ton | AP-42, Tables 1.4-1 | | | | | | | |
| | | | | VOC | 5.5 | lb/ton | AP-42, Tables 1.4-2 | | | | | | | |
| | | | | CO | 84 | lb/ton | AP-42, Tables 1.4-1 | | | | | | | |
| Increase in Potential Emissions for Dryer 5 & 6 grain drying | | | | | | | | 32.05 | 8.18 | 1.38 | | | | |
| Increase in Potential Emissions for Dryer 5 & 6 natural gas | | | | | | | | 1.50 | 6.00 | 6.00 | 0.47 | 79.07 | 4.35 | 66.37 |
| No Change in the maximum uncontrolled Potential Emissions for Steeler 1 (change in air flowrate) | | | | | | | | | | | | | | |
| No Change in the maximum uncontrolled Potential Emissions for Steeler 2 (change in air flow rate) | | | | | | | | | | | | | | |
| Steeler 3 | 140,000 | 70 | 150,000 | PM | 0.375 | lb/ton | Engineering Estimate | 28.13 | 17.16 | 17.16 | | | | |
| Baghouse Cyclic Flow Rate (cm) | lb/hr | ton/yr | ton/yr | PM10 | 0.22875 | lb/ton | Engineering Estimate | | | | | | | |
| 14,880 | | | Limit | PM2.5 | 0.22875 | lb/ton | Engineering Estimate | | | | | | | |
| Steeler Aspirators 3 & 4 | 280,000 | 140 | 150,090 | PM | 0.061 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 4.58 | 2.65 | 0.44 | | | | |
| (1,228,400 tons/year) | lb/hr | ton/yr | ton/yr | PM10 | 0.094 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| | total | total | Limit | PM2.5 | 0.0098 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| 80 New Bulk Storage Bins | 56,000 | 28 | 150,000 | PM1 | 0.025 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| SCC 3-02-005-40 | lb/hr | ton/yr | ton/yr | PM10 | 0.0063 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| | each | each | Limit | PM2.5 | 0.0011 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| 4 Shelled Corn Loadout Bins | 140,000 | 70 | 150,000 | PM1 | 0.025 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| 2,860 bushels capacity each | lb/hr | ton/yr | ton/yr | PM10 | 0.0063 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| SCC 3-02-005-40 | | | Limit | PM2.5 | 0.0011 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| 4 Cob Loadout Bins (31,870, 31,820, 31,870, 31,880) | 48,144 | 24 | 150,000 | PM1 | 0.026 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| SCC 3-02-005-40 | lb/hr | ton/yr | ton/yr | PM10 | 0.0063 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| | each | each | Limit | PM2.5 | 0.0011 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| Dust Bin (31,910) | 60,000 | 30 | 150,000 | PM1 | 0.026 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | 1.88 | 0.47 | 0.08 | | | | |
| | lb/hr | ton/yr | ton/yr | PM10 | 0.0063 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |
| | | | Limit | PM2.5 | 0.0011 | lb/ton | AP-42, Table 9.9-1-1 (3/03) | | | | | | | |

| Emission Unit | Unlimited Capacity (lbs/hr) | Unlimited Capacity (tons/hr) | Unlimited Capacity (tons/year) | Pollutant | Emission Factor | Units | Source of EF (date published) | PM (TPY) | PM-10 (TPY) | PM-2.5 (TPY) | SOx (TPY) | NOx (TPY) | VOC (TPY) | CO (TPY) |
|---|-----------------------------|------------------------------|--------------------------------|-------------------|-----------------|---------|-------------------------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|
| Shield Cont Receiving | 280,000 | 140 | 150,000 | PM _{2.5} | 0.0078 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | 2.63 | 0.58 | 0.10 | | | | |
| SOC 3-02-005-62 | | | | PM ₁₀ | 0.0013 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | | | | | | | |
| Dabaggar EU109 | 68,000 | 28 | 150,000 | PM ₁₀ | 0.061 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | 4.58 | 2.56 | 0.44 | | | | |
| | | | | PM _{2.5} | 0.0038 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | | | | | | | |
| Internal Handling | 34,247 | 17.1 | 150,000 | PM ₁₀ | 0.061 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | 4.59 | 2.55 | 0.44 | | | | |
| | | | | PM _{2.5} | 0.0038 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | | | | | | | |
| Hulk Chopper (existing) | 28,000 | 14 | 60,000 | PM ₁₀ | 0.061 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | 1.63 | 0.95 | 0.15 | | | | |
| Only 25% of grain received goes through the chopper | | | | PM ₁₀ | 0.004 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | | | | | | | |
| Sheller Central Vacuum System | 400 | 400 | | PM _{2.5} | 0.0038 | lb/ton | AP-42 Table 9.3-1-1 (3/03) | | | | | | | |
| 10' Hg | | | | PM ₁₀ | 0.03 | gr/dscf | Engineering Estimate | 0.45 | 0.45 | 0.45 | | | | |
| Tower Central Vacuum System | 440 | 440 | | PM _{2.5} | 0.03 | gr/dscf | Engineering Estimate | 0.50 | 0.50 | 0.50 | | | | |
| 14' Hg | | | | PM ₁₀ | 0.03 | gr/dscf | Engineering Estimate | | | | | | | |
| | | | | PM _{2.5} | 0.03 | gr/dscf | Engineering Estimate | | | | | | | |
| Total Emissions | | | | | | | | 38.00 | 43.25 | 27.35 | 0.47 | 79.01 | 4.36 | 66.37 |

Notes

- 1. Facility throughput limit
- 2. Assumes all bins are controlled by a bin vent.
- 3. Assumes grain receiving is done by hopper truck.

Appendix A: Emissions Calculations
Summary - Unfiltered

Company Name: Monsanto Company
Source Address: 19649 S US Hwy 231, Remington, IN 47377

| Unlimited/Uncontrolled Potential to Emit (tons/year) | | | | | | | | | | |
|--|---------------|---------------|---------------|-------------|---------------|---------------|---------------|----------------|-------------|-------------|
| Emission Unit | PM | PM10 | PM2.5 | SO2 | NOx | VOC | CO | GHGs as CO2e | Total HAPs | Single HAP |
| Non-Fugitive Emissions | | | | | | | | | | |
| Com Receivers 1, 2, 3 & 4 | 4.29 | 0.55 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hexane 1, 2, 3 & 4 | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drivers 1, 2, 3, 4, 5 & 6 (Grain Drying) | 57.94 | 14.72 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hexane 1, 2, 3, 4, 5, and 6 (Combustion) | 7.06 | 31.42 | 51.42 | 2.48 | 413.47 | 22.74 | 347.32 | 499.199 | 7.65 | 7.44 |
| Shelter 1 | 45.93 | 28.05 | 28.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter 2 | 45.93 | 28.05 | 28.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter 3 | 45.93 | 28.05 | 28.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Aspirators 1 & 2 | 37.41 | 20.85 | 3.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Aspirators 3 & 4 | 37.41 | 20.85 | 3.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 Bulk Storage Bins | 3.07 | 0.77 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shielded Com Loading Bins | 3.07 | 0.77 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 Cols Loaded Bins | 3.07 | 0.77 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shielded Com Receiving | 3.07 | 0.77 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaners, Sorters, Screens - Line 1 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaners, Sorters, Screens - Line 2 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gravily Tables, Lines 1 & 2 | 45.93 | 28.05 | 28.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Storage Bins, Lines 1 & 2 | 3.07 | 0.77 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Aspirators 1-5 | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Treater 1-3 & CB1100 Treater | 11.22 | 6.25 | 1.07 | 0.00 | 0.00 | 387.22 | 0.00 | 0.00 | 0.15 | 0.13 |
| Treating and Packing Storage Bins | 3.07 | 0.77 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Machine (EU12) | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Seed Pail Filler | 11.22 | 6.25 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Herbage Station 1 & 2 | 4.04 | 2.25 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Debagger B134 | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Lot Receiving (EU102 through 104) | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Debagger B1105 (Small Lot Debagger) | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Internal Handling | 0.73 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Dust Collector Leakers | 0.73 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insignificant Emissions | | | | | | | | | | |
| Husk Chopper | 1.87 | 1.04 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Central Vacuum System | 0.45 | 0.45 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tower Central Vacuum System | 0.45 | 0.45 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bulk Sand Receiving | 10.73 | 2.39 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Heaters | 0.93 | 0.08 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 0.02 | 0.01 |
| Totals (Non-Fugitive) | 462.94 | 279.45 | 190.17 | 2.48 | 414.33 | 414.33 | 347.32 | 500.151 | 7.80 | 7.46 |
| Fugitive Emissions | | | | | | | | | | |
| Paved Roads | 2.29 | 0.46 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unpaved Roads | 18.46 | 4.70 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Totals (Fugitive) | 20.74 | 5.16 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Totals (All Sources) | 483.68 | 284.61 | 190.75 | 2.48 | 414.33 | 414.33 | 347.32 | 500.151 | 7.80 | 7.46 |

| Limited Potential to Emit (tons/year) | | | | | | | | | | |
|--|---------------|---------------|--------------|-------------|--------------|--------------|--------------|---------------|-------------|-------------|
| Emission Unit | PM | PM10 | PM2.5 | SO2 | NOx | VOC | CO | GHGs as CO2e | Total HAPs | Single HAP |
| Non-Fugitive Emissions | | | | | | | | | | |
| Com Receivers 1, 2, 3 & 4 | 3.20 | 0.74 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hexane 1, 2, 3 & 4 | 6.13 | 3.40 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drivers 1, 2, 3, 4, 5 & 6 (Grain Drying) | 47.00 | 11.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hexane 1, 2, 3, 4, 5, and 6 (Combustion) | 4.07 | 4.28 | 4.28 | 0.00 | 0.00 | 3.10 | 47.33 | 85.028 | 1.99 | 1.91 |
| Shelter 1 | 28.13 | 17.16 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter 2 | 28.13 | 17.16 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter 3 | 28.13 | 17.16 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Aspirators 1 & 2 | 4.55 | 2.35 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Aspirators 3 & 4 | 4.55 | 2.35 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 Bulk Storage Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shielded Com Loading Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 Cols Loaded Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shielded Com Receiving | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaners, Sorters, Screens - Line 1 | 1.90 | 1.90 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaners, Sorters, Screens - Line 2 | 1.90 | 1.90 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gravily Tables, Lines 1 & 2 | 23.00 | 14.02 | 14.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Storage Bins, Lines 1 & 2 | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Aspirators 1-5 | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Treater 1-3 & CB1100 Treater | 11.22 | 6.25 | 1.07 | 0.00 | 0.00 | 390.00 | 0.00 | 0.00 | 0.15 | 0.13 |
| Treating and Packing Storage Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Machine (EU12) | 4.55 | 2.35 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Seed Pail Filler | 11.22 | 6.25 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Herbage Station 1 & 2 | 4.04 | 2.25 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Debagger B134 | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Lot Receiving (EU102 through 104) | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Debagger B1105 (Small Lot Debagger) | 7.48 | 4.17 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Internal Handling | 0.73 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Dust Collector Leakers | 0.73 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insignificant Emissions | | | | | | | | | | |
| Husk Chopper | 1.83 | 0.85 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Central Vacuum System | 0.45 | 0.45 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tower Central Vacuum System | 0.45 | 0.45 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bulk Sand Receiving | 10.73 | 2.39 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Heaters | 0.93 | 0.08 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 0.02 | 0.01 |
| Totals (Non-Fugitive) | 274.34 | 139.88 | 86.67 | 0.34 | 57.19 | 33.22 | 48.00 | 80.000 | 1.34 | 1.03 |
| Fugitive Emissions | | | | | | | | | | |
| Paved Roads | 2.29 | 0.46 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unpaved Roads | 18.46 | 4.70 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Totals (Fugitive) | 20.74 | 5.16 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Limited/Controlled Potential to Emit (tons/year) | | | | | | | | | | |
|--|-------|-------|-------|------|------|------|-------|--------------|------------|------------|
| Emission Unit | PM | PM10 | PM2.5 | SO2 | NOx | VOC | CO | GHGs as CO2e | Total HAPs | Single HAP |
| Non-Fugitive Emissions | | | | | | | | | | |
| Com Receivers 1, 2, 3 & 4 | 3.20 | 0.74 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hexane 1, 2, 3 & 4 | 6.13 | 3.40 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drivers 1, 2, 3, 4, 5 & 6 (Grain Drying) | 47.00 | 11.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hexane 1, 2, 3, 4, 5, and 6 (Combustion) | 4.07 | 4.28 | 4.28 | 0.00 | 0.00 | 3.10 | 47.33 | 85.028 | 1.99 | 1.91 |
| Shelter 1 | 28.13 | 17.16 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter 2 | 28.13 | 17.16 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter 3 | 28.13 | 17.16 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Aspirators 1 & 2 | 4.55 | 2.35 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shelter Aspirators 3 & 4 | 4.55 | 2.35 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 Bulk Storage Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shielded Com Loading Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 Cols Loaded Bins | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Shielded Com Receiving | 1.88 | 0.47 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaners, Sorters, Screens - Line 1 | 1.90 | 1.90 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaners, Sorters, Screens - Line 2 | 1.90 | 1.90 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gravily Tables, Lines 1 & 2 | 23 | | | | | | | | | |

**Appendix A: Emissions Calculations
Processing - Unlimited**

Company Name: **Monsanto Company**
Source Address: **16949 S US Hwy 231, Romington, IN 47977**

Conditioning Tower Annual Bottleneck = **245,280 tons/year***

Unlimited Potential to Emit

| Emission Unit | Unlimited Capacity (lb/hr) | Unlimited Capacity (tons/hr) | Unlimited Capacity (tons/year) | Pollutant | Emission Factor | Units | Source of EF (date published) | PM (TPI) | PM-10 (TPI) | PM-2.5 (TPI) | 336 IAC 6-3-2 Allowable PM Emission Rate (lb/yr) |
|---|----------------------------|------------------------------|---|---------------------------|-----------------|----------|-------------------------------|---------------|---------------|---------------|--|
| Com. Receiving 1, 2, 3, & 4 SCC 3-02-005-52 | 112,000 lb/hr each | 56 tons/hr each | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.035 0.0076 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 4.59 | 0.98 | 0.19 | 45.84 |
| Hauling 1, 2, 3 & 4 SCC 3-02-005-50 | 112,000 lb/hr each | 56 tons/hr each | 245,280 tons/yr Bottleneck* | PM ^{2.5} PM10 | 0.0013 0.004 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 45.84 |
| Dryers 1, 2, 3 & 4 (Grain Drying) SCC 3-02-005-27 | 38,000 lb/hr each | 14 tons/hr each | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.47 0.12 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 57.64 | 14.72 | 2.45 | 24.03 |
| Dryers 5 & 6 (Grain Drying) SCC 3-02-005-27 | 43,583 lb/hr each | 22 tons/hr each | For Dryers 1, 2, 3, 4, 5, & 6 Bottleneck* | PM ^{2.5} | 0.0028 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | | | | 32.31 |
| Sheller 1 Baghouse CE15a Flow Rate (cfm) 15,880 | 140,000 lb/hr | 70 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.375 0.2375 | lb/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 70.63 |
| Sheller 2 Baghouse CE15b Flow Rate (cfm) 14,580 | 140,000 lb/hr | 70 tons/hr | 245,280 tons/yr Bottleneck* | PM ^{2.5} | 0.2375 | lb/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 70.63 |
| Sheller 3 Baghouse CE15c Flow Rate (cfm) 14,080 | 140,000 lb/hr | 70 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.375 0.2375 | lb/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 70.63 |
| Sheller Aspirators 1 & 2 (1,229,400 tons/year) total | 280,000 lb/hr total | 140 tons/hr total | 1,229,400 tons/yr total | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 37.41 | 20.65 | 3.66 | 64.72 |
| Sheller Aspirators 3 & 4 (1,229,400 tons/year) total | 280,000 lb/hr total | 140 tons/hr total | 1,229,400 tons/yr total | PM ^{2.5} PM10 | 0.0058 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 37.41 | 20.65 | 3.58 | 64.72 |
| 240 Bulk Storage Bins SCC 3-02-005-10 | 56,000 lb/hr each | 28 tons/hr each | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.025 0.0062 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 38.23 |
| Shelled Corn Loadout (Replaced) | 140,000 lb/hr total | 70 tons/hr total | 815,200 tons/yr Bottleneck* | PM ¹ PM10 | 0.066 0.028 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 26.37 | 8.60 | 1.50 | 70.83 |
| 4 Shelled Corn Loadout Bins 2,580 bushels capacity each SCC 3-02-005-40 | 140,000 lb/hr | 70 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.025 0.0062 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 70.63 |
| 4 Corn Loadout Bins (31,810, 31,820, 31,870, 31,860) SCC 3-02-005-40 | 48,144 lb/hr each | 24 tons/hr each | 245,280 tons/yr Bottleneck* | PM ^{2.5} | 0.0011 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 64.65 |
| Corn Bin (31,910) | 60,000 lb/hr | 30 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.025 0.0062 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 40.04 |
| Shelled Corn Receiving SCC 3-02-005-52 | 280,000 lb/hr | 140 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.035 0.0076 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 4.25 | 0.98 | 0.18 | 64.72 |
| Cleaners, Sorters, Screens, Line 1 SCC 3-02-005-37 | 56,000 lb/hr total | 28 tons/hr total | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.062 0.082 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.90 | 7.60 | 7.60 | 38.23 |
| Cleaners, Sorters, Screens, Line 2 SCC 3-02-005-37 | 56,000 lb/hr total | 28 tons/hr total | 245,280 tons/yr Bottleneck* | PM ^{2.5} | 0.082 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.90 | 7.60 | 7.60 | 38.23 |
| Gravity Tables, Lines 1 & 2 SCC 3-02-005-37 (18 gravity tables) | 3,500 lb/hr each | 1.75 tons/hr each | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.375 0.2375 | lb/ton | Engineering Estimate | 45.99 | 28.05 | 28.05 | 5.37 |
| Storage Bins, Lines 1 & 2 SCC 3-02-005-40 | 80,000 lb/hr total | 28 tons/hr total | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.025 0.0062 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 38.23 |
| Aspirators 1-3 | 56,000 lb/hr total | 28 tons/hr total | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.23 |
| Treaters 1-3 | 64,000 lb/hr total | 42 tons/hr total | 307,920 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 11.22 | 8.26 | 1.07 | 42.37 |
| Transfer and Picking Storage Bins SCC 3-02-005-40 | 80,000 lb/hr total | 28 tons/hr total | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.025 0.0062 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 3.07 | 0.77 | 0.13 | 38.23 |
| Bagging Machine (EU10) | 134,400 lb/hr | 67.2 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 47.37 |
| Seed Pak Filler | 84,000 lb/hr | 42.0 tons/hr | 387,936 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 11.22 | 8.26 | 1.07 | 42.37 |
| Refuge Scales 1 & 2 | 18,120 lb/hr each | 7.56 tons/hr each | 132,461 tons/yr total | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 4.04 | 2.23 | 0.38 | 16.00 |
| Debagger EU34 | 86,600 lb/hr | 28 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.23 |
| Small Lot Bagging (EU10-104) | 189,200 lb/hr total | 99.4 tons/hr total | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 51.23 |
| Debagger EU106 | 58,000 lb/hr | 28 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 38.23 |
| Internal Handling | 58,000 lb/hr | 28.0 tons/hr | 245,280 tons/yr Bottleneck* | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 7.48 | 4.17 | 0.71 | 36.55 |
| Dust Collector Leucocite | | | 17,830 tons/yr | PM ¹ PM10 | 0.086 0.029 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 0.75 | 0.25 | 0.04 | NA |
| Husk Chopper (existing) Only 25% of grain received goes through the chopper | 38,000 lb/hr | 14 tons/hr | 61,320 tons/yr | PM ¹ PM10 | 0.061 0.034 | lb/ton | AP-42 Table 9.9.1-1 (3/03) | 1.07 | 1.04 | 0.18 | |
| Sheller Central Vacuum System 10" Hg | 400 scfm | | | PM ^{2.5} | 0.03 | gr/scruf | Engineering Estimate | 0.45 | 0.45 | 0.45 | |
| Tower Central Vacuum System 11" Hg | 440 scfm | | | PM ^{2.5} | 0.03 | gr/scruf | Engineering Estimate | 0.50 | 0.50 | 0.50 | |
| Total Emissions | | | | | | | | 457.39 | 245.47 | 146.28 | |

Notes:

- The maximum bottleneck throughput is based on the capacity of the conditioning tower (56,000 lb/hr * ton/2000 lbs = 28 tons/hr)
- Assumes grain receiving is done by hopper truck.
- Emission factors for the Cleaners, Sorters, and Gravity Tables is listed in AP-42 with a cyclone for controls; therefore a 30% capture rate was assumed to back out an uncontrolled emission factor.
- Assumes all bins are controlled by a bin vent.
- Gravity Tables uncontrolled emissions factors from FESOP No. 073-23632-00035 (as provided by the applicant). This emission factor is also used for the Shellers.

**Appendix A: Emissions Calculations
Processing - Limited**

**Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977**

Facility Throughput (Wet Ear Corn) = 200,000 tons/year*
Facility Throughput Limit (dry shelled corn) = 150,000 tons/year*

Limited Potential to Emit

| Emission Unit | Limited Capacity | Pollutant | Emission Factor | Units | Source of EF (see published) | PM (TPY) | PM-10 (TPY) | PM2.5 (TPY) |
|--|------------------------------|--|-----------------------------|-------------------------------|---|---------------|---------------|--------------|
| Corn Receiving 1, 2, 3, & 4 SCC 3-02-005-82 | 200,000 tons/yr total* | PM ¹ PM10 PM2.5 | 0.005 0.0078 0.0013 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 5.00 | 0.78 | 0.13 |
| Husking 1, 2, 3 & 4 SCC 3-02-005-30 | 200,000 tons/yr total* | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 8.10 | 3.40 | 0.88 |
| Dryers 1, 2, 3, 4, 5 & 6 (Grain Drying) Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 200,000 tons/yr total* | PM PM10 PM2.5 | 0.47 0.12 0.020 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 47.00 | 12.00 | 2.00 |
| Sheller 1 Baghouse CE15a Flow Rate (cfm) 14,880 | 150,000 tons/yr total | PM ¹ PM10 ¹ PM2.5 ¹ | 0.375 0.22875 0.22875 | lb/ton lb/ton lb/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 28.13 | 17.35 | 17.16 |
| Sheller 2 Baghouse CE16a Flow Rate (cfm) 14,880 | 150,000 tons/yr total | PM ¹ PM10 ¹ PM2.5 ¹ | 0.375 0.22875 0.22875 | lb/ton lb/ton lb/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 28.13 | 17.36 | 17.16 |
| Sheller 3 Baghouse CE15c Flow Rate (cfm) 14,880 | 150,000 tons/yr total | PM ¹ PM10 ¹ PM2.5 ¹ | 0.375 0.22875 0.22875 | lb/ton lb/ton lb/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 28.13 | 17.18 | 17.16 |
| Sheller Aspirators 1 & 2 (28 tons/hour total) | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 4.58 | 2.55 | 0.44 |
| Sheller Aspirators 3 & 4 (28 tons/hour total) | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 4.58 | 2.55 | 0.44 |
| 248 Buil Storage Bins SCC 3-02-005-40 | 150,000 tons/yr total* | PM ¹ PM10 PM2.5 | 0.025 0.0093 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.88 | 0.47 | 0.08 |
| Shelled Corn Loadout (Replaced) | 150,000 tons/yr | PM PM10 PM2.5 | 0.068 0.029 0.0049 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 6.45 | 2.18 | 0.37 |
| 4 Shelled Corn Loadout Bins 2,500 bushels capacity each SCC 3-02-005-40 | 150,000 tons/yr total* | PM ¹ PM10 PM2.5 | 0.025 0.0093 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.88 | 0.47 | 0.08 |
| 4 Cob Loadout Bins (31,810, 31,820, 31,870, 31,880) SCC 3-02-005-49 | 150,000 tons/yr total* | PM ¹ PM10 PM2.5 | 0.025 0.0093 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.88 | 0.47 | 0.08 |
| Dust Bin (31,910) | 150,000 tons/yr Limit* | PM ¹ PM10 PM2.5 | 0.025 0.0093 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.88 | 0.47 | 0.08 |
| Shelled Corn Receiving SCC 3-02-005-82 | 150,000 tons/yr Limit* | PM ¹ PM10 PM2.5 | 0.035 0.0078 0.0013 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 2.63 | 0.59 | 0.10 |
| Cleaners, Sorters, Sizers, Line 1 61,320 tons/year throughput limit for Line 1 SCC 3-02-005-37 | 61,320 tons/yr Limit* | PM ¹ PM10 PM2.5 | 0.062 0.062 0.062 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.90 | 1.90 | 1.90 |
| Cleaners, Sorters, Sizers, Line 2 61,320 tons/year throughput limit for Line 2 SCC 3-02-005-37 | 61,320 tons/yr Limit* | PM ¹ PM10 PM2.5 | 0.062 0.062 0.062 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.90 | 1.90 | 1.90 |
| Gravety Tables, Lines 1 & 2 SCC 3-02-005-37 | 122,540 tons/yr each line | PM PM10 PM2.5 | 0.375 0.22875 0.22875 | lb/ton lb/ton lb/ton | Engineering Estimate Engineering Estimate Engineering Estimate | 23.00 | 14.03 | 14.03 |
| Storage Bins, Lines 1 & 2 SCC 3-02-005-40 | 150,000 tons/yr total* | PM ¹ PM10 PM2.5 | 0.025 0.0093 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.88 | 0.47 | 0.08 |
| Aspirators 1-3 | 95,000 lb/hr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 7.48 | 4.17 | 0.71 |
| Tractors 1-3 | 84,000 lb/hr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 11.22 | 6.25 | 1.07 |
| Treating and Packing Storage Bins SCC 3-02-005-40 | 150,000 tons/yr total* | PM ¹ PM10 PM2.5 | 0.025 0.0093 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.88 | 0.47 | 0.08 |
| Bagging Machine (EU12) | 150,000 tons/yr Limit* | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 4.68 | 2.55 | 0.44 |
| Seed Pak Filler | 84,000 lb/hr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 11.22 | 6.25 | 1.07 |
| Refuge Scales 1 & 2 | 132,461 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 4.04 | 2.25 | 0.38 |
| Debagger EU104 | 95,000 lb/hr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 7.48 | 4.17 | 0.71 |
| Small Lot Bagging (EU102-104) | 150,000 tons/yr Limit* | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 4.58 | 2.55 | 0.44 |
| Debagger EU105 | 95,000 lb/hr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 7.48 | 4.17 | 0.71 |
| Internal Handling | 150,000 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 4.58 | 2.55 | 0.44 |
| Dust Collector Loadouts | 17,520 tons/yr | PM PM10 PM2.5 | 0.068 0.029 0.0049 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 0.75 | 0.25 | 0.04 |
| Husk Chopper (existing) Only 25% of grain received goes through the chopper | 50,000 lb/hr | PM ¹ PM10 PM2.5 | 0.061 0.034 0.0088 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) AP-42 Table 9.9.1-1 (303) | 1.53 | 0.85 | 0.15 |
| Sheller Central Vacuum System 10" Hg | 400 scfm | PM PM10 PM2.5 | 0.03 0.03 0.03 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | 0.45 | 0.45 | 0.45 |
| Tower Central Vacuum System 11" Hg | 440 scfm | PM PM10 PM2.5 | 0.03 0.03 0.03 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | 0.50 | 0.50 | 0.50 |
| Total Emissions | | | | | | 263.12 | 132.14 | 80.93 |

Notes:

- *The maximum bottleneck throughput is based on the capacity of the conditioning tower (56,000 lbs/hour * 100/200 lbs = 28 tons/hour)
- 1. Assumes grain receiving is done by hopper truck.
- 2. Emission factors for the Cleaners, Sorters, and Gravety Tables is listed in AP-42 with a cyclone for controls; therefore an 80% capture rate was assumed to back out an uncontrolled emission factor.
- 3. Assumes all bins are controlled by a bin vent.
- 4. Gravety Tables uncontrolled emissions factors from FESOP No. 073-23632-00035 (as provided by the applicant). This emission factor is also used for the Shellers.

**Appendix A: Emissions Calculations
Processing - Limited/Controlled**

Company Name: **Monsanto Company**
Source Address: **15849 S US Hwy 231, Remington, IN 47877**

Facility Throughput (Wet Ear Corn) = **200,000 tons/year*** 3,809,524 bushels (wet ear corn)
Facility Throughput Limit (dry shelled corn) = **150,000 tons/year*** 5,357,143 bushels (dry shelled corn)

Limited/Controlled Potential to Emit

| Emission Unit | Limited Capacity | Pollutant | Emission Factor of Limit | Units | Source of EF (date published) | Control Device | Control Eff | PM (TPY) | PM10 (TPY) | PM2.5 (TPY) |
|--|--------------------------------------|---------------------|----------------------------|-------------------------------|--|---|----------------------------|---------------|--------------|--------------|
| Corn Receiving 1, 2, 3, & 4 SCC 3-02-005-02 | 200,000 tons/yr total* | PM1 PM2.5 | 0.025 0.0078 | lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 3.80 | 0.78 | 0.13 |
| Handling 1, 2, 3 & 4 SCC 3-02-005-30 | 200,000 tons/yr total* | PM1 PM2.5 | 0.061 0.034 | lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 8.10 | 3.40 | 0.66 |
| Dryers 1, 2, 3, 4, 5 & 6 (Grain Drying) Rack Dryer - Self Cleaning Screens SCC 3-02-005-27 | 200,000 tons/yr total* | PM PM10 PM2.5 | 0.47 0.12 0.020 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 47.00 | 12.00 | 2.00 |
| Sheller 1 Baghouse CE15a Flow Rate (cfm) 14,880 hrs limit** | 140,000 tons/yr 2,500 hrs limit** | PM PM10 PM2.5 | 0.006 0.006 0.006 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | Baghouse CE15a (Sheller 1) | N/A N/A N/A | 0.96 | 0.96 | 0.93 |
| Sheller 2 Baghouse CE15b Flow Rate (cfm) 14,880 hrs limit** | 140,000 tons/yr 2,500 hrs limit** | PM PM10 PM2.5 | 0.006 0.006 0.006 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | Baghouse CE15b (Sheller 2) Regulated Dust Collector | N/A N/A N/A | 0.96 | 0.93 | 0.93 |
| Sheller 3 Baghouse CE15c Flow Rate (cfm) 14,880 hrs limit** | 140,000 tons/yr 2,500 hrs limit** | PM PM10 PM2.5 | 0.006 0.006 0.006 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | Baghouse CE15c (Sheller 3) Regulated Dust Collector | N/A N/A N/A | 0.96 | 0.96 | 0.93 |
| Sheller Aspirators 1 & 2 (28 tons/hour total) | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Baghouse CE16 Regulated Dust Collector | 99.00% 99.00% 99.00% | 0.05 | 0.03 | 0.00 |
| Sheller Aspirators 3 & 4 (28 tons/hour total) | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Baghouse CE16 Regulated Dust Collector | 99.00% 99.00% 99.00% | 0.05 | 0.03 | 0.00 |
| 248 Bulk Storage Bins SCC 3-02-005-40 | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.058 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-35 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| Shelled Corn Loadout (Regulated) | 150,000 tons/yr 1 limit* | PM PM10 PM2.5 | 0.098 0.020 0.0049 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-34 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 6.45 | 2.18 | 0.37 |
| 4 Shelled Corn Loadout Bins 2,500 bushels capacity each SCC 3-02-005-40 | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.025 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-35 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| 4 Cob Loadout Bins (31,810, 31,820, 31,870, 31,880) SCC 3-02-005-40 | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.025 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-35 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| Dust Bin (31,910) | 150,000 tons/yr 1 limit* | PM PM10 PM2.5 | 0.025 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-34 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| Shelled Corn Receiving SCC 3-02-005-02 | 150,000 tons/yr 1 limit* | PM PM10 PM2.5 | 0.025 0.0078 0.0013 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-35 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 2.63 | 0.69 | 0.10 |
| Cleaners, Sorters, Sizers, Line 1 SCC 3-02-005-57 | 61,320 tons/yr 1 limit* | PM PM10 PM2.5 | 0.062 0.062 0.092 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 1 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.90 | 1.90 | 1.50 |
| 61,320 tons/year throughput limit for Line 1 | 61,320 tons/yr 1 limit* | PM PM10 PM2.5 | 0.062 0.062 0.092 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 2 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.90 | 1.90 | 1.50 |
| Cleaners, Sorters, Sizers, Line 2 SCC 3-02-005-57 | 61,320 tons/yr 1 limit* | PM PM10 PM2.5 | 0.062 0.062 0.092 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 2 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.90 | 1.90 | 1.50 |
| 61,320 tons/year throughput limit for Line 2 | 61,320 tons/yr 1 limit* | PM PM10 PM2.5 | 0.062 0.062 0.092 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | White Dust Collector 2 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.90 | 1.90 | 1.50 |
| Gravity Tables, Lines 1 & 2 SCC 3-02-005-57 | 122,840 tons/yr 1 limit* | PM PM10 PM2.5 | 0.375 0.22875 0.0011 | lb/ton lb/ton lb/ton | Engineering Estimate Engineering Estimate Engineering Estimate | Dust Collectors 1 through 8 (Line 1) Dust Collectors 9 through 16 (Line 2) | 0.00% 0.00% 0.00% | 23.00 | 14.03 | 14.03 |
| 61,320 tons/year each line | 100,000 tons/yr total* | PM PM10 PM2.5 | 0.025 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | White Dust Collectors 1 & 2 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| Storage Bins, Lines 1 & 2 SCC 3-02-005-40 | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.058 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | White Dust Collectors 1 & 2 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| Aspirators 1-3 | 56,000 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 7.48 | 4.17 | 0.71 |
| Treaters 1-3 | 84,600 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 11.22 | 6.25 | 1.07 |
| Feeding and Packing Storage Bins SCC 3-02-005-40 | 150,000 tons/yr total* | PM PM10 PM2.5 | 0.025 0.0063 0.0011 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 1.88 | 0.47 | 0.08 |
| Bagging Machine (EUM2) | 150,000 tons/yr 1 limit* | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 4.58 | 2.50 | 0.436 |
| Seed Pack Filler | 84,000 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Baghouse CE34 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 11.22 | 6.25 | 1.07 |
| Reuse Scales 1 & 2 | 132,451 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector (Reuse Scale 1) Baghouse CE14 (Reuse Scale 2) | 0.00% 0.00% 0.00% | 4.04 | 2.25 | 0.384 |
| Debagger EU34 | 56,000 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Red Dust Collector Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 7.48 | 4.17 | 0.71 |
| Small Lot Bagging (EUI02-104) | 150,000 tons/yr 1 limit* | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Baghouse CE14 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 4.58 | 2.55 | 0.433 |
| Debagger EU103 | 56,000 tons/yr | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | Baghouse CE14 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 7.48 | 4.17 | 0.71 |
| Internal Handling | 150,000 tons/yr 1 limit* | PM PM10 PM2.5 | 0.061 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | CE-34 Unregulated Dust Collector Assume 0% Control Efficiency | 0.00% 0.00% 0.00% | 4.58 | 2.55 | 0.433 |
| Dust Collector Loadouts | 17,320 tons/yr | PM PM10 PM2.5 | 0.066 0.028 0.0049 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | none | 0.00% | 0.75 | 0.25 | 0.043 |
| Truck Chopper (existing) Only 25% of grain received goes through the chopper | 80,300 tons/yr | PM PM10 PM2.5 | 0.091 0.034 0.0058 | lb/ton lb/ton lb/ton | AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) AP-42 Table 9.9.1-1 (3/03) | none | 0.00% 0.00% 0.00% | 1.83 | 0.83 | 0.15 |
| Sheller Central Vacuum System 10" Hg | 400 scfm | PM PM10 PM2.5 | 0.03 0.03 0.03 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | none | 0.00% 0.00% 0.00% | 0.45 | 0.45 | 0.45 |
| Tower Central Vacuum System 11" Hg | 440 scfm | PM PM10 PM2.5 | 0.03 0.03 0.03 | gr/dscf gr/dscf gr/dscf | Engineering Estimate Engineering Estimate Engineering Estimate | none | 0.00% 0.00% 0.00% | 0.50 | 0.50 | 0.50 |
| Total Emissions | | | | | | | | 172.56 | 79.43 | 31.47 |

Notes:

- * Facility throughput limit
- ** Shellers 1, 2 & 3 have an hourly limit of 2,500 hours per year each
- 1. Assume grain receiving is done by hopper truck.
- 2. Emission factors for the Cleaners, Sorters, and Gravity Tables is listed in AP-42 with a cyclone for controls; therefore an 80% capture rate was assumed to back out an uncontrolled emission factor.
- 3. Assume all bins are controlled by a bin vent.

**Appendix A: Emissions Calculations
Emissions From Seed Coating Operations
Treater 1, 2, 3 and CBT 100**

Company Name: **Monsanto Company**
Source Address: **15849 S US Hwy 231, Remington, IN 47977**

Conditioning Tower Limit = tons/year*

Unlimited

| Material | Density (lb/gal) | VOC Content (lb VOC/gallon of coating) | Gallons of Mat. (gal/ton of seed) | Maximum (tons seed/yr) | Potential VOC (tpy) | Glycol Ether Content (%) | HAP Emissions (tpy) |
|------------------|------------------|--|-----------------------------------|------------------------|---------------------|--------------------------|---------------------|
| Apron XL LS | 9.3 | 8.32 | 0.00656 | 150,000 | 3.109 | 1.00% | 0.03 |
| Poncho Medium** | 10.6 | 1.80 | 0.35313 | 0 | 0.000 | 0% | 0.0 |
| Poncho High | 10.6 | 1.80 | 1.96870 | 150,000 | 285.775 | 0% | 0.0 |
| Precise Medium** | 10.5 | 2.94 | 0.31250 | 0 | 0.000 | 0% | 0.0 |
| Precise High | 10.5 | 2.94 | 0.46870 | 150,000 | 103.348 | 0% | 0.0 |
| MaximXL | 9.2 | 0.55 | 0.02625 | 150,000 | 1.083 | 12.00% | 0.13 |
| Red Colorant** | 9.9 | 0.18 | 0.03906 | 0 | 0.000 | 0% | 0.0 |
| Green Colorant** | 11 | 0.20 | 0.04688 | 0 | 0.000 | 0% | 0.0 |
| Blue Colorant | 9.9 | 0.18 | 0.07813 | 150,000 | 1.055 | 0% | 0.0 |
| Seed Gloss | 10.1 | 0.00 | 0.00000 | 150,000 | 0.000 | 0% | 0.0 |
| Dynasty | 8.673 | 0.52 | 0.02206 | 150,000 | 0.861 | 0% | 0.0 |
| Trilex | 9.1 | 1.82 | 0.08791 | 150,000 | 12.000 | 0% | 0.0 |
| Total | | | | | 387.23 | | 0.16 |

*The maximum bottleneck throughput is based on the capacity of the conditioning tower (56,000 lbs/hour * ton/2000 lbs = 28 tons/hour)
**Throughputs for certain materials set at 0 since these would not represent the maximum potential emissions for these chemicals

Limited

| Unit ID | VOC Limit (tons/year) |
|---------------|-----------------------|
| Treater 1 | 25.0 |
| Treater 2 | 25.0 |
| Treater 3 | 25.0 |
| CBT 100 | 15.0 |
| Totals | 90.0 |

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Unlimited Potential to Emit
Dryers 1, 2, 3, 4, 5, 6

Company Name: Monsanto Company
 Source Address: 15849 S US Hwy 231, Remington, IN 47977

| Unit ID | Unlimited Heat Input Capacity MMBtu/hr | | HHV mMBtu | Unlimited Throughput MMCF/yr |
|---------|--|-----------------------------------|-----------|------------------------------|
| Dryer 1 | 60 | (4 burners @ 15 MMBtu/hr each) | | |
| Dryer 2 | 60 | (4 burners @ 15 MMBtu/hr each) | | |
| Dryer 3 | 160 | (18 burners @ 8.89 MMBtu/hr each) | | |
| Dryer 4 | 160 | (18 burners @ 8.89 MMBtu/hr each) | | |
| Dryer 5 | 252 | (28 burners @ 8.89 MMBtu/hr each) | | |
| Dryer 6 | 252 | (28 burners @ 8.89 MMBtu/hr each) | 1000 | 8269.4 |
| Total | | 944.0 | | |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|------|-------------|-------|--------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 | VOC | CO |
| | 1.9 | 7.6 | 7.6 | 0.6 | **see below | 5.5 | 84 |
| Potential Emission in tons/yr | 7.86 | 31.42 | 31.42 | 2.48 | 413.47 | 22.74 | 347.32 |

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

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|---------|-----------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 8.683E-03 | 4.962E-03 | 3.101E-01 | 7.442 | 1.408E-02 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|-----------|-----------|-----------|-----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 2.067E-03 | 4.549E-03 | 5.789E-03 | 1.571E-03 | 8.683E-03 |

Total HAP's = 7.80

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

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|-----|-----|
| | CO2 | CH4 | N2O |
| | 120,000 | 2.3 | 2.2 |
| Potential Emission in tons/yr | 496,186 | 9.5 | 9.1 |
| Summed Potential Emissions in tons/yr | 496,185 | | |
| CO2e Total in tons/yr | 499,186 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low NOx burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Limited Potential to Emit
Dryers 1, 2, 3, 4, 5, 6

Company Name: **Monsanto Company**
 Source Address: **15849 S US Hwy 231, Remington, IN 47977**

| |
|--|
| Limited Throughput MMCF/yr 1,126.90 |
|--|

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-----------------------------|-----------|-------|---------------|------|---------------------------|------|-------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 **see below | VOC | CO |
| Limited Emission in tons/yr | 1.07 | 4.28 | 4.28 | 0.34 | 56.35 | 3.10 | 47.33 |

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

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-008-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

| HAPs - Organics | | | | | |
|-------------------------------|-----------|-----------------|--------------|--------|-----------|
| Emission Factor in lb/MMCF | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Potential Emission in tons/yr | 1.183E-03 | 6.761E-04 | 4.226E-02 | 1.014 | 1.916E-03 |

| HAPs - Metals | | | | | |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| Emission Factor in lb/MMCF | Lead | Cadmium | Chromium | Manganese | Nickel |
| Potential Emission in tons/yr | 2.817E-04 | 6.198E-04 | 7.888E-04 | 2.141E-04 | 1.183E-03 |

Total HAP's = 1.06

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

| Greenhouse Gas | | | |
|---------------------------------------|--------|-----|-----|
| Emission Factor in lb/MMCF | CO2 | CH4 | N2O |
| Potential Emission in tons/yr | 67,614 | 1.3 | 1.2 |
| Summed Potential Emissions in tons/yr | 67,617 | | |
| CO2e Total in tons/yr | 68,025 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-008-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations
Natural Gas Combustion
Heater Data**

Company Name: Monsanto Company
Source Address: 15849 S US Hwy 231, Remington, IN 47977

| | Maximum Heat Input Capacity (Btu/hr) | Maximum Heat Output Capacity (Btu/hr) |
|---------------------------|--|---|
| Shop 1-Forced Air | 225,000 | 182,300 |
| Shop 2-Forced Air | 125,000 | 100,000 |
| Shop 3-Forced Air | 125,000 | 100,000 |
| Battery Area-Radiant | 125,000 | N/A |
| Small Lot Line 1-Radiant | 125,000 | N/A |
| Small Lot Line 2-Radiant | 125,000 | N/A |
| Palletizer 1-Radiant | 300,000 | N/A |
| Palletizer 2-Radiant | 250,000 | N/A |
| Bagger 1-Radiant | 40,000 | N/A |
| Bagger 2-Radiant | 60,000 | N/A |
| Bagger 3-Radiant | 80,000 | N/A |
| Seed Pak Filler 1-Radiant | 40,000 | N/A |
| Seed Pak Filler 2-Radiant | 60,000 | N/A |
| Seed Pak Filler 3-Radiant | 60,000 | N/A |
| Seed Pak Filler 4-Radiant | 60,000 | N/A |
| New Office HVAC 1 | 50,000 | N/A |
| New Office HVAC 2 | 50,000 | N/A |

1,900,000

1.90

Btu/hr

MMBtu/hr

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HEATERS

Company Name: Monsanto Company
 Source Address: 15849 S US Hwy 231, Remington, IN 47977

| | | |
|---------------------------------|-----------------------|---------------------------------|
| Heat Input Capacity MMBtu/hr | HHV mmBtu mmscf | Potential Throughput MMCF/yr |
| 1.9 | 1000 | 16.6 |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|------|---------------------------|------|------|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx 100 **see below | VOC | CO |
| Potential Emission in tons/yr | 0.02 | 0.06 | 0.06 | 0.00 | 0.88 | 0.05 | 0.70 |

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

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

| Emission Factor in lb/MMcf | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|--------|-----------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Potential Emission in tons/yr | 1.748E-05 | 9.986E-06 | 6.242E-04 | 0.015 | 2.829E-05 |

| Emission Factor in lb/MMcf | HAPs - Metals | | | | |
|-------------------------------|---------------|-----------|-----------|-----------|-----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| Potential Emission in tons/yr | 4.161E-06 | 9.154E-06 | 1.166E-05 | 3.162E-06 | 1.748E-05 |

Total HAP's 0.018

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

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|-----|-----|
| | CO2 | CH4 | N2O |
| Potential Emission in tons/yr | 999 | 0.0 | 0.0 |
| Summed Potential Emissions in tons/yr | 999 | | |
| CO2e Total in tons/yr | 1,005 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

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

| Interim Petition Checklist | |
|--|--|
| Instructions: (a) Please answer yes or no. (b) Enclosed this checklist with the completed interim petition package. | |
| Company Name: Monsanto Company | |
| Location: 15849 South U.S. Highway 231, Remington, Indiana | |
| Yes | 1. Is the written interim petition prepared? |
| Yes | 2. Is the written petition signed and dated? |
| Yes | 3. Is the public notice drafted? |
| Yes | 4. Is the filing and review fee enclosed? \$625 for TV, FESOP, and SSOA. \$500 for MSOP. |
| Yes | 5. Is the account number written on the check or money order? |
| Yes | 6. Is the Affidavit of Construction signed, dated, and notarized? |
| Yes | 7. Is the proposed modification/revision described in detail? |
| Yes | 8. Is the proposed modification/revision a modification or addition to an existing source? |
| Yes | 9. Is the proposed modification/revision located in an attainment area for all the criteria pollutants? |
| No | 10. Is the proposed modification/revision located in a nonattainment area? If yes, answer No. 11. |
| N/A | 11. Is the pollutant, which the nonattainment designation is based on, going to be emitted in this proposed modification/revision? |
| Yes | 12. Are potential emissions calculated? |
| Yes | 13. Is federal enforceability consent specifically indicated? |
| Yes | 14. Are specific conditions, limitations, and/or restrictions included that preclude applicability of PSD? |
| N/A | 15. Are specific conditions, limitations, and/or restrictions included that preclude applicability of NSPS? |
| N/A | 16. Are specific conditions, limitations, and/or restrictions included that preclude applicability of NESHAP? |
| Yes | 17. Are specific conditions, limitations, and/or restrictions included that assure compliance with all applicable state air pollution rules? |
| Yes | 18. Has a regular modification/revision permit application been submitted to OAQ? |
| No | 19. Has the proposed modification/revision commenced prior to the submission of the interim permit petition? |
| Yes | 20. The interim petition comment period has been decided to be: <u>14 calendar days</u> |
| Additional Comments: | |

Indiana Department of Environmental Management Office of Air Management

Interim Significant Permit Revision Evaluation Sheet

| | | | |
|--|---|-------------------------------------|------------------------------------|
| Company Name: | Monsanto Company | | |
| Location: | 15849 South U.S. Highway 231, Remington, IN 47977 | | Permit No: 073-32601i-00035 |
| Permit Reviewer: | Ghassan Shalabi | Date Receipt of Application: | 12/17/2012 |
| | | Date of review: | 12/27/2012 |
| Description of the interim construction: | | | |
| Public Notice Period | = | December 18, 2012 | to December 31, 2012 |
| Public Notice Date + 3 days = 17 days = January 3, 2013 | | | |

Interim Petition Applicability: 326 IAC 2-13-1

- (a) Existing Source with valid permit;
- (b) Exemptions:
 - (1) construction of a PSD source or PSD modification;
 - (2) construction or modification in nonattainment area that would emit those pollutants for which the nonattainment designation is based.
 - (3) any modification subject to 326 IAC 2-4.1.
- (c) Public notice comment period is 14 calendar days.

Instructions: Check (✓) appropriate answers and make a recommendation.

1. Did the applicant submit a written petition for an interim significant permit revision or significant source modification?

Yes Go to question 2.
 No Ignore verbal request.

2. Did the applicant pay the applicable interim permit fee? \$625 for TV, FESOP, and SSOA. \$500 for MSOP.

Yes Go to question 3.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(1).

Comments: _____

3. Did the applicant state acceptance of federal enforceability of an interim significant permit revision or significant source modification?

Yes Go to question 4.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(D).

4. Did the applicant or its authorized agent sign the application?

Yes Go to question 5.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(E).

5. Did the applicant submit a notarized affidavit stating that the applicant will proceed at its own risk (if the interim significant permit revision or significant source modification is issued), including, but not limited to:

- (a) Financial risk,
- (b) Risk that additional emission controls may be required,
- (c) Risk that the final significant permit revision or significant source modification may be denied.

Yes Go to question 6.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(F).

6. Did the applicant begin construction prior to submitting the interim significant permit revision or significant source modification application?

Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(6).
 No Go to question 7.

7. What is the type of the interim construction?

New Source Deny the application, pursuant to 326 IAC 2-13-1(a)
 Modification to an existing source Go to question 8.

8. Did the applicant present data in the interim significant permit revision or significant source modification that is sufficient to determine PSD, NSPS, NESHAP, and state rule compliance?

Yes Go to question 9.
 No Deny the application pursuant to:
326 IAC 2-13-1(c)(2)(B), for PSD;
326 IAC 2-13-1(c)(2)(C), for NSPS or NESHAP;
326 IAC 2-13-1(c)(2)(C), for state rules.

9. Is the proposed modification to be located in a nonattainment area?

Yes Go to question 10.
 No Go to question 11.

County: Jasper County

Comments: _____

10. Will the proposed modification emit the pollutant for which the area is nonattainment in quantities greater than the significant levels?

Yes Deny the application, pursuant to 326 IAC 2-13-1(a)(2).
 No Go to question 11.

11. Did the petition include a complete description of the process?

Yes Go to question 12.
 No Deny the petition, pursuant to 326 IAC 2-13-1(c)(2).

12. Did the interim significant permit revision or significant source modification petition contain conditions accepting either emission controls (baghouse, afterburners, scrubbers, etc.) or enforceable limits or other suitable restriction to avoid PSD applicability; as well as control parameters (incinerator operating temperature, baghouse pressure drop, etc.)? The specific limits must be explicitly spelled out (i.e.: The gas consumption of the boiler shall not exceed 29 million cubic feet per month.) A statement such as that the company agrees to conditions such that PSD rules are not applicable is not acceptable.

Yes Go to question 13.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).

13. Do the emission controls and/or throughput limits prevent PSD applicability?
 Yes Go to question 14.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).
14. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable New Source Performance Standards (NSPS) (40 CFR 60)?
 Yes Go to question 15.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
15. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAP)?
 Yes Go to question 16.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
16. Will the modification, after application of all emission controls and/or throughput limitations, comply with all applicable state rules?
 Yes Go to question 17.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
17. Does the applicant dispute applicability of any applicable state or federal rule?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
 No Go to question 18.
18. Is there good reason to believe that the applicant does not intend to construct in accordance with the interim significant permit revision or significant source modification petition?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(1).
 No Go to question 19.
19. Is there good reason to believe that information in the petition has been falsified?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(7).
 No Approve the interim significant permit revision or significant source modification petition.
20. Has the petition been adequately public noticed? A proof of publication copy is necessary.
 Yes Go to question 21.
 No Deny the application, pursuant to 326 IAC 2-13-1(e).
- Newspaper: Journal and Courier _____
Date of publication: 12/18/2012. _____
21. Were comments received within seventeen (17) days after the public notice of the interim significant permit revision or significant source modification?
(14 calendar days for comment period + 3 working days for mailing)
 Yes Evaluate the comments received, and make a recommendation.
 No Issue the final interim significant permit revision or significant source modification approval.

Comments: _____

Recommendation: Approve Petition _____

Date the applicant was informed of the decision: _____

Method of informing the applicant: _____

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

PETITION FOR INTERIM SIGNIFICANT PERMIT REVISION, SIGNIFICANT SOURCE MODIFICATION,
MINOR PERMIT REVISION, OR MINOR SOURCE MODIFICATION

Source Name: Monsanto Company
 Source Address: 15849 South Highway US 231, Remington, Indiana 47977
 Mailing Address: P.O. Box 35, Remington, Indiana 47977
 SIC/NAICS Code: 0723 NAICS 115114

Description of the Operation or Equipment:

Monsanto operates a seed facility in Remington, Indiana. Monsanto is proposing to make the following modifications at this facility:

1. Two huskers will be modified to have an additional husking bed. Husker 1 and Husker 2, which each consist of 7 husking beds constructed in 1976, modified in 1995, 2007, 2008 and 2013 exhausting to general ventilation, capacity: 2,000 bushels (112,000 pounds) of ear corn per hour for each line and each husker.
2. Two (2) natural gas-fired bin dryers will be modified. Two (2) natural gas-fired bin dryers identified as Dry 5 and Dry 6, approved for construction in 2008 and 2009 and approved for modification in 2013, exhausting to Stack Dry 5 and Stack Dry 6, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour (Drying rate and heat input need recalculated for 28 bins), each equipped with twenty eight (28) storage bins, identified as Dry 5 and Dry 6 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
3. One corn sheller will be added to the facility exhausting to a new baghouse. One (1) corn sheller, identified as Sheller #3, approved for construction in 2013, exhausting to a baghouse for particulate control, identified as CE15c, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
4. Two new sheller aspirators will be added to the facility (Sheller Aspirator 3 & 4), they will vent to a new baghouse along with the existing aspirators. The new description will be the following: Four (4) aspirators, identified as Sheller Aspirator 1, Sheller Aspirator 2, Sheller Aspirator 3 and Sheller Aspirator 4 approved for construction in 2009 and 2013, exhausting to a baghouse for particulate control, identified as CE16 capacity 2,500 bushels (140,000 pounds) of corn per hour, each.
5. The storage bins will be renumbered. There are 12 bins that will be removed from the facility and 80 new bins will be added. The new description of the bins will be the following:

Two Hundred and forty eight (248) bulk storage bins identified as 451.01-451.31, 452.01-452.31, 453.01-453.31, 454.01-454.31, 455.01-455.31, 456.01-456.31, 457.01-457.31 and 458.01-458.31 constructed in 1999, 2007, 2008, 2009, and 2013 exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).

(a) Storage bins 451.01-451.31, 454.01-454.31, 455.01-455.31, and 458.01-458.31 have a capacity of 7,500 bushels (420,000 pounds) each.

(b) Storage bins 452.01-452.31, 453.01-453.31, 456.01-456.31, and 457.01-457.31 have a capacity of 5,000 bushels (280,000 pounds) each.
6. The shelled corn loadout constructed in 1976 will be demolished and a new shelled corn loadout operation will be added. One (1) shelled corn loadout operation identified as Shelled Corn Loadout approved for

construction in 2013 with a maximum capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34r (House Dust System).

7. The 6 loadout bins will be replaced with 4 shelled corn loadout bins. Four (4) shelled corn loadout bins identified as 31.830, 31.840, 31.850 and 31.860 approved for construction in 2013 with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust System). Each bin has a capacity of 2,580 bushels (144,480 Lbs).
8. Four new cob bins will be installed. Four (4) cob bins identified as 31.810, 31.820, 31.870, and 31.880 approved for construction in 2013. Each has a capacity of 2,832 cubic feet (48,144 pounds) and is utilized for cob loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
9. One new dust bin will be installed. One (1) dust bin identified as 31.900 approved for construction in 2013 with a capacity of 3,000 cubic feet (60,000 pounds) and utilized for dust loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
10. One shelled corn receiving operation will be installed. One (1) shelled corn receiving operation identified as Shelled Corn Receiving approved for construction in 2013 with a capacity of 5,000 bushels per hour (280,000 pounds) exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
11. One debagger will be added to the facility on the small lot system. The description of the small lot bagging system will be changed to the following: One (1) small lot bagging operation, constructed in 2005, approved for modification in 2013 consisting of a debagger identified EU106, the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit 2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: 1000 bushels (56,000 pounds) per hour, total.
12. The following insignificant activities will be added to the permit:
 - (a) One Central Vacuum system identified as Tower Central Vac for general clean up.
 - (b) One Central Vacuum system identified as Sheller Central Vac for general clean up.
 - (c) One husk chopper identified as Husk Chopper, with a capacity of 500 bushels per hour (28,000 pounds per hour).
 - (d) Internal handling.
13. Calculations indicate that baghouses identified as Red Dust Collector, CE34, CE35, CE14, White Dust Collector 1 & 2, and Gravity Table Dust Collectors 1-16 do not have to be operated in order for the associated emission units to comply with 326 IAC 6-3-2.

Potential To Emit:

The following table presents a summary of the potential emissions from new and existing equipment associated with Monsanto's operations (with restrictions contained in this permit):

| Process/emission unit | Potential To Emit (tons/year) | | | | | | | |
|---|-------------------------------|------------------|-------------------|-----------------|------|-------|-----------------|---------------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | CO | NO _x | HAPs |
| Corn Receiving #1, #2, #3, and #4 | 3.50 | 0.78 | 0.13 | - | - | - | - | - |
| Huskers #1, #2, #3, and #4 | 6.10 | 3.40 | 0.58 | - | - | - | - | - |
| Dry #1, #2, #3, #4, #5 & #6 (grain drying) | 47.00 | 12.00 | 2.00 | - | - | - | - | - |
| Natural gas emissions of Dry #1, #2, #3, #4, #5, & #6 | 1.07 | 4.28 | 4.28 | 0.34 | 3.10 | 47.33 | 56.35 | 1.01 hexane 1.06 total |
| Sheller #1 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller #2 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller #3 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller Aspirator 1 & 2 | 0.05 | 0.03 | 0.00 | - | - | - | - | - |
| Sheller Aspirator 3 & 4 | 0.05 | 0.03 | 0.00 | - | - | - | - | - |
| Bulk storage bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Shelled Corn Loadout | 6.45 | 2.18 | 0.37 | - | - | - | - | - |
| (4) Shelled Corn Loadout Bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| (4) Cob Loadout Bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Dust Bin 31.900 | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Shelled Corn Receiving | 2.63 | 0.59 | 0.10 | - | - | - | - | - |
| Cleaners, Sorters, Sizers Line 1 | 1.90 | 1.90 | 1.90 | - | - | - | - | - |
| Cleaners, Sorters, Sizers Line 2 | 1.90 | 1.90 | 1.90 | - | - | - | - | - |
| Sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2 | 23.00 | 14.03 | 14.03 | - | - | - | - | - |
| Storage Bins, Line 1 & 2 | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| One (1) bagging machine EU12 | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Treating & packaging storage bins | 1.88 | 0.47 | 0.083 | - | - | - | - | - |

| Process/emission unit | Potential To Emit (tons/year) | | | | | | | |
|--|-------------------------------|------------------|-------------------|-----------------|--------------|--------------|-----------------|-------------------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | CO | NO _x | HAPs |
| Seed Pak Filler | 11.22 | 6.25 | 1.07 | - | - | - | - | - |
| Refuge Scales 1 & 2 | 4.04 | 2.25 | 0.384 | - | - | - | - | - |
| One (1) small lot bagging operation, consisting of EU102 through EU104 | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Debagger EU106 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| One (1) debagger, identified as EU34 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| Three (3) Aspirators, identified as Aspirators 1 through 3 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| Three (3) treaters, identified as Treaters 1, 2 & 3 | 11.22 | 6.25 | 1.07 | - | 90.00 | - | - | 0.21 glycol ethers 0.26 total |
| Dust Collector Loadouts | 0.75 | 0.25 | 0.043 | - | - | - | - | - |
| Insignificant Activities | | | | | | | | |
| Internal Handling | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Husk Chopper | 1.53 | 0.85 | 0.15 | - | - | - | - | - |
| Sheller Central Vac | 0.45 | 0.45 | 0.45 | - | - | - | - | - |
| Tower Central Vac | 0.50 | 0.50 | 0.50 | - | - | - | - | - |
| Tanks | 0.00 | 0.00 | 0.00 | - | - | - | - | - |
| Bulk Seed Receiving | 10.73 | 2.39 | 0.40 | - | - | - | - | - |
| Heaters | 0.01 | 0.06 | 0.06 | - | - | - | - | - |
| Total Emissions | 184.44 | 86.23 | 36.22 | 0.34 | 93.10 | 47.33 | 56.35 | 1.01 hexane 1.32 total |

Greenhouse Gas Emissions

| | | | |
|---|--------------|------------------------------|---------------|
| Natural gas emissions of Dry #1, #2, #3, #4, #5, & #6 | Total | CO₂e (tpy) | 68,025 |
|---|--------------|------------------------------|---------------|

PSD Requirements:

(1) Particulate Matter (PM) [326 IAC 2-2]

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

The PM emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, six (6) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, 5, and 6 (grain drying), three (3) Shellers identified as Sheller 1, 2, & 3, the four (4) sheller aspirators identified as Sheller Aspirators 1, 2, 3 & 4, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102-104 shall be limited to less than the throughput and emission limits specified in the following table:

| Emission Units (Control Device) | Limited Corn Throughput (tons/yr*) | PM Emission Limit (lbs PM/ton corn) |
|--|------------------------------------|-------------------------------------|
| Corn Receiving 1, 2, 3, and 4 | 200,000, total | 0.035 |
| Huskers 1, 2, 3, and 4 | 200,000, total | 0.061 |
| Dryers 1, 2, 3, 4, 5, and 6 | 200,000, total | 0.47 |
| Sheller 1, 2, & 3 (CE-15a, b & c) | 2,500 hours/year | 0.375 |
| Sheller Aspirators 1, 2, 3 & 4 (CE-16) | 150,000, each | 0.061 |
| Bagging Machine EU12 (Red Dust Collector) | 150,000 | 0.061 |
| Small Lot Bagging EU102 through EU104 (CE14) | 150,000, total | 0.061 |

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

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

Compliance with this limitation shall render the requirements of 326 IAC 2-2, PSD, not applicable.

(2) Particulate Matter (PM₁₀) [326 IAC 2-8-4]

In order to render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

The PM₁₀ emissions from the four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, six (6) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, 5, and 6 (grain drying), three (3) Shellers identified as Sheller 1, 2, & 3, the four (4) sheller aspirators identified as Sheller Aspirators 1, 2, 3 & 4, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102-104 shall be limited to less than the throughput and emission limits specified in the following table:

| Emission Units (Control Device) | Limited Corn Throughput (tons/yr*) | PM ₁₀ Emission Limit (lbs PM ₁₀ /ton corn) |
|--|------------------------------------|--|
| Corn Receiving 1, 2, 3, and 4 | 200,000, total | 0.0078 |
| Huskers 1, 2, 3, and 4 | 200,000, total | 0.034 |
| Dryers 1, 2, 3, 4, 5, and 6 | 200,000, total | 0.12 |
| Sheller 1, 2, & 3 (CE-15a, b & c) | 2,500 hours/year | 0.22875 |
| Sheller Aspirators 1, 2, 3 & 4 (Baghouse CE16) | 150,000, total | 0.034 |
| Bagging Machine EU12 (Red Dust Collector) | 150,000 | 0.034 |
| Small Lot Bagging EU102 through EU104 (CE14) | 150,000, total | 0.034 |

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of

each month.

Compliance with these limits, combined with the potential to emit PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 to less than 100 tons per 12 consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

(3) Natural Gas Limit [326 IAC 2-8-4][326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) The total amount of natural gas burned in dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall be less than 1,126.9 million cubic feet (MMCF) per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) NOx emissions from dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall not exceed 100 pounds per million cubic foot (lb/MMCF);
- (c) CO emissions from dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall not exceed 84 pounds per million cubic foot (lb/MMCF);
- (d) carbon dioxide (CO₂) emissions from natural gas combustion shall not exceed 120,000 pounds per million cubic foot (lb/MMCF);
- (e) methane (CH₄) emissions from natural gas combustion shall not exceed 2.3 pounds per million cubic foot (lb/MMCF);
- (f) nitrous oxide (N₂O) emissions from natural gas combustion shall not exceed 2.2 pounds per million cubic foot (lb/MMCF);
- (g) the Global Warming Potential (GWP) for carbon dioxide (CO₂) shall not exceed 1.0;
- (h) the Global Warming Potential (GWP) for methane (CH₄) shall not exceed 21; and
- (i) the Global Warming Potential (GWP) for nitrous oxide (N₂O) shall not exceed 310.

How can we change this?

Compliance with these limits, combined with the NOx, CO, and carbon dioxide equivalent emissions (CO₂e) from all other emission units at the source, shall limit the source-wide total NOx and CO emissions to less than 100 tons per twelve (12) consecutive month period, each, the source-wide total greenhouse gas (GHG) emissions to less than 100,000 tons of carbon dioxide equivalent emissions (CO₂e) per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

NSPS Requirements:

There is no applicable NSPS rule applicable to this operation or equipment.

NESHAP Requirements:

There is no applicable NESHAP rule applicable to this operation or equipment.

State Rules & Requirements:

(4) Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

| Emission Unit (baghouse) | Process weight rate (tons per hour) | Allowable particulate emission rate (pounds per hour) |
|--|--|---|
| Corn Receiving 1, 2, 3 & 4 (none) | 56.0 each | 45.64 each |
| Huskers 1, 2, 3, & 4 part of Corn Receiving 1, 2, 3, & 4 (none) | 56.0 each | 45.64 each |
| Natural gas-fired bin dryers, identified as Dry 1, Dry 2, Dry 3, Dry 4, Dry 5 & Dry 6 (Stack Dry 1, 2, 3, 4, 5, & 6) | 14.0 each, Dry 1, 2, 3 & 4 22.0 each, Dry 5 & 6 | 24.03 each Dry 1-4 32.31 each Dry 5 & 6 |
| Three (3) Corn Shellers, identified as Sheller 1, Sheller 2 & Sheller 3 (Baghouses CE 15a, b, & c) | 70.0 each | 70.63 each |
| Sheller Aspirators 3 & 4 | 140.0 total | 54.72 total |
| Shelled Corn Loadout | 70.0 | 70.63 |
| Four (4) Shelled Corn Loadout Bins | 70.0 | 70.63 |
| Four (4) Cob Bins | 24.0 each | 34.55 each |
| Dust Bin 31.900 | 30.0 | 40.04 |
| Shelled Corn Receiving | 140.0 | 54.72 |
| Internal Handling | 28.0 | 39.35 |
| Debagger EU106 | 28.0 | 38.23 |
| 248 Bulk Storage Bins | 28.0 each | 38.23 each |

(5) Opacity [326 IAC 5-1]

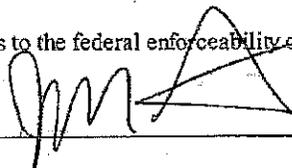
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

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

Federal Enforceability:

The company consents to the federal enforceability of this interim petition.

Signature: _____



Printed Name: _____

John Sturges

Title or Position: _____

Site Manager

Phone No.: _____

(219) 261-2122

Date: _____

12/14/12

NOTICE OF 14-DAY
PERIOD
FOR PUBLIC COMMENT
Proposed Approval of
Interim Significant Per-
mit Revision to Feder-
ally Enforceable State

ally Enforceable State
Operating Permit
for Monsanto
Company
in Jasper County
Notice is hereby given
that the above compa-
ny located at 15849
South Highway US 231,
Remington, Indiana,
has made application
to the Indiana Depart-
ment of Environmental
Management (IDEM),
Office of Air Quality
(OAQ) for an interim
permit to modify two
natural gas-fired grain
dryers (Dry 5 & 6), con-
struct a new Sheller,
two new sheller
aspirators, four shelled
corn loadout bins, a
new shelled corn
loadout operation, four
cob bins, a new dust
bin, a new shelled corn
receiving area, a
debagger, and two
central vacuum sys-
tems and make modifi-
cations to two husker
lines. Emissions from
existing operations are
currently limited
through a Federally En-
forceable State Oper-
ating Permit (FESOP).
Monsanto proposes to
maintain emissions be-
low Title V thresholds
by limiting grain
throughput, natural
gas combustion and
hours of operation for
Shellers 1, 2 & 3.
Based on limited grain
throughput, the con-
trolled particulate mat-
ter (PM) and particu-
late matter less than
10 microns in diameter
(PM10) emissions from
modification will be
modified from current
allowed emission rates
to 200,000 tons per
year of wet ear corn
for the corn receiving,
husking and dryers
and 150,000 tons per
year of dry shelled
corn for all other
equipment and 2,500
hours per year for
Shellers 1, 2 & 3. The
two dryer modifica-
tions will be rolled into
the existing dryers'
grain and natural gas
throughput limits.
Limited criteria emis-
sions from drying will
remain unchanged.
The new limited partic-
ulate emissions from
the facility will be
185.9 tpy of particulate
matter, 87.1 tpy of par-
ticulate matter less
than 10 microns in di-
ameter and 36.4 tpy of
particulate matter less
than 2.5 microns in
diameter.
The company has sub-
mitted an application
for a significant FESOP
modification. The OAQ
shall review the appli-
cation in accordance
with Indiana Permit
Review Rules. Opera-
tion of the source can-
not commence until a
valid operating permit
is issued. The con-
struction of the pro-
posed project is entire-
ly at the applicant's
own risk.

Monsanto

ERM

Ad Nur

258734

**At
ad**

**of
at here**

PROOF OF PUBLICATION

SS:

Charge for Publication \$ 301.00

On this **Wednesday, December 19, 2012** before me the undersigned personally came **Lorna Moore**, who swears that she is clerk of the Lafayette Journal and Courier, a newspaper of general circulation, printed and published in the city of Lafayette, in said County; and that the advertisement in the above entitled cause, whereof a true copy appears in the margin hereof, was duly and legally published in the Daily issue of said newspaper by insertions, to-wit. The first insertion being on **:December 18, 2012**

The second on:

The third on:

The fourth on:

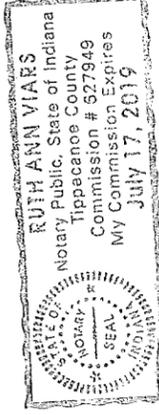
Lorna Moore

Subscribed and sworn to before me on this day of :

Wednesday, December 19, 2012

Ruth Ann Viars

Notary Public



Persons not wishing to comment at this time, but wishing to receive notice of future proceedings conducted related to this action, must submit a written request to the Office of Air Quality (OAQ), at the above address. All interested parties of record will receive a notice of the decision on this matter and will then have 15 days after receipt of the Notice of Decision to file a petition for administrative review. Procedures for filing such a petition will be enclosed with the Notice. Questions should be directed to OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 or (317) 233-0178.
NO. 1258734
12/18/2012



OAQ GENERAL SOURCE DATA APPLICATION
GSD-01: Basic Source Level Information
 State Form 50640 (R4 / 9-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
 100 N. Senate Avenue, 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/permits/air/index.html

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 online at www.in.gov/idem/permits/air/apps/instructions/gsd01instructions.html.
- 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: Source / Company Location Information

| | | | |
|--|---------------------------|------------------------------------|--|
| 1. Source / Company Name: Monsanto Company | | 2. Plant ID: 073 – 00035 | |
| 3. Location Address: 15849 South U.S. Highway 231 | | | |
| City: Remington | State: IN | ZIP Code: 47977 – | |
| 4. County Name: Jasper | | 5. Township Name: Carpenter | |
| 6. Geographic Coordinates: | | | |
| Latitude: 40.78318 | | Longitude: -87.15408 | |
| 7. Universal Transferal Mercadum Coordinates (if known): | | | |
| Zone: 16 | Horizontal: 487000 | Vertical: 4514700 | |
| 8. Adjacent States: Is the source located within 50 miles of an adjacent state? | | | |
| <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY) | | | |
| 9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? | | | |
| <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO _x <input type="checkbox"/> O ₃ <input type="checkbox"/> PM <input type="checkbox"/> PM ₁₀ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> SO ₂ | | | |
| 10. Portable / Stationary: Is this a portable or stationary source? | | | |
| | | <input type="checkbox"/> Portable | <input checked="" type="checkbox"/> Stationary |

PART B: Source Summary

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

PART C: Source Contact Information

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

18. Name of Source Contact Person: John Sturges

19. Title (optional): Site Manager

20. Mailing Address: PO Box 35, 15849 South U.S. Highway 231

City: Remington

State: IN

ZIP Code: 47977 –

21. Electronic Mail Address (optional): john.sturges@monsanto.com

22. Telephone Number: (219) 261 – 2122

23. Facsimile Number (optional): (219) 261 – 3681

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: John Sturges

25. Title: Site Manager

26. Mailing Address: PO Box 35, 15849 South U.S. Highway 231

City: Remington

State: IN

ZIP Code: 47977 –

27. Telephone Number: (219) 261 – 2122

28. Facsimile Number (optional): (219) 261 – 3681

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: Monsanto Company

31. Name of Owner Contact Person: Teri Merical

32. Mailing Address: 800 North Lindbergh Blvd, Mail Code OC5D

City: St. Louis

State: MO

ZIP Code: 63167 –

33. Telephone Number: (314) 694 – 3673

34. Facsimile Number (optional): () –

35. 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

36. Company Name of Operator: SAME AS OWNER

37. Name of Operator Contact Person:

38. Mailing Address:

City:

State:

ZIP Code: –

39. Telephone Number: () –

40. Facsimile Number (optional): () –

PART G: Agent Information

| | | |
|--|--|--------------------------|
| 41. Company Name of Agent: ERM, Inc. | | |
| 42. Type of Agent: <input checked="" type="checkbox"/> Environmental Consultant <input type="checkbox"/> Attorney <input type="checkbox"/> Other (specify): | | |
| 43. Name of Agent Contact Person: David Jordan | | |
| 44. Mailing Address: 11350 N. Meridian, Suite 320 | | |
| City: Carmel | State: IN | ZIP Code: 46032 – |
| 45. Electronic Mail Address (optional): dave.jordan@erm.com | | |
| 46. Telephone Number: (317) 706 – 2000 | 47. Facsimile Number (optional): (317) 706 – 2010 | |
| 48. 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? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | | |

PART H: Local Library Information

| | | |
|---|--|--------------------------|
| 49. Date application packet was filed with the local library: | | |
| 50. Name of Library: Remington-Carpenter Township Public Library | | |
| 51. Name of Librarian (optional): | | |
| 52. Mailing Address: 105 Ohio Street, P.O. Box 65 | | |
| City: Remington | State: IN | ZIP Code: 47977 – |
| 53. Internet Address (optional): | | |
| 54. Electronic Mail Address (optional): rctpldir@rctpl.lib.in.us | | |
| 55. Telephone Number: (219) 261 – 2543 | 56. Facsimile Number (optional): (219) 261 – 3800 | |

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.

| 57. Legal Name of Company | 58. Dates of Use |
|---------------------------|------------------|
| Not Applicable | to |
| | to |

59. 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:**

PART L: Source Process Description

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

| 65. Process Description | 66. Products | 67. SIC Code | 68. NAICS Code |
|-------------------------|--------------------|--------------|----------------|
| Corn Seed Plant | Cleaned corn seeds | 0723 | 115114 |
| | | | |
| | | | |
| | | | |

PART M: Existing Approvals (if applicable)

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

| 69. Permit ID | 70. Emissions Unit IDs | 71. Expiration Date |
|---------------|------------------------|---------------------|
| 30542 | FESOP Renewal | 11/20/2022 |
| | | |
| | | |
| | | |

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.

| 72. Emissions Unit ID | 73. Type of Emissions Unit | 74. Actual Dates | | |
|-----------------------|----------------------------|--------------------|------------------------|-----------------|
| | | Began Construction | Completed Construction | Began Operation |
| | None | | | |
| | | | | |
| | | | | |
| | | | | |

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.

| 75. Emissions Unit ID | 76. NEW | 77. MOD | 78. Type of Emissions Unit | 79. Estimated Dates | | |
|-----------------------|---------|---------|--|---------------------|-----------------------|-----------------|
| | | | | Begin Construction | Complete Construction | Begin Operation |
| Dry 5 | | X | Corn Husk Dryer expansion | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Dry 6 | | X | Corn Husk Dryer expansion | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Shelling 3 | X | | Sheller/Cleaner | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Storage Bins | X | | Renumbered all the storage bins. 12 Bins removed, 80 new bins. | 1/9/2013 | 8/1/2013 | 8/1/2013 |

| | | | | | | |
|------------------------------|---|--|------------------------|----------|----------|----------|
| Sheller Aspirators 3&4 | X | | Sheller aspirators 3&4 | 1/9/2013 | 8/1/2013 | 8/1/2013 |
|------------------------------|---|--|------------------------|----------|----------|----------|

GSD-01 (Continued)

Part O: New or Modified Emission Units

| 75. Emission Unit ID | 76. New | 77. Modified | 78. Type of Emission Unit | 79. Estimated Dates | | |
|--|---------|--------------|--|---------------------|-----------------------|-----------------|
| | | | | Begin Construction | Complete Construction | Begin Operation |
| EU106 Debagger | X | | New Small Lot Debagger | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Dust Bin 31.900 | X | | New Dust Bin | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| (4) Shelled Corn Loadout Bins 31.830 31.840 31.850 31.860 | X | | Four new loadout bins | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Shelled Corn Loadout | X | | Shelled Corn Loadout – throughput change | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Shelled Corn Receiving | X | | Shelled Corn Receiving | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| (4) Cob Bins 31.810 31.820 31.870 31.880 | X | | (4) Cob Bins | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Huskers #1 & #2 | | X | One additional husker bed at line #1 and #2 will be added. Throughput will remain unchanged. | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Insignificant Activities | | | | | | |
| Internal Handling | | X | Internal Handling | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Husk Chopper | | | Husk Chopper | Not Applicable | Not Applicable | 1976 |
| Sheller Central Vac | X | | Sheller Central Vac for housekeeping purposes and pick-up points | 1/9/2013 | 8/1/2013 | 8/1/2013 |
| Tower Central Vac | X | | Tower Central Vac for housekeeping purposes and pick-up points | 1/9/2013 | 8/1/2013 | 8/1/2013 |

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

PETITION FOR INTERIM SIGNIFICANT PERMIT REVISION, SIGNIFICANT SOURCE MODIFICATION,
MINOR PERMIT REVISION, OR MINOR SOURCE MODIFICATION

Source Name: Monsanto Company
Source Address: 15849 South Highway US 231, Remington, Indiana 47977
Mailing Address: P.O. Box 35, Remington, Indiana 47977
SIC/NAICS Code: 0723 NAICS 115114

Description of the Operation or Equipment:

Monsanto operates a seed facility in Remington, Indiana. Monsanto is proposing to make the following modifications at this facility:

1. Two huskers will be modified to have an additional husking bed. Husker 1 and Husker 2, which each consist of 7 husking beds constructed in 1976, modified in 1995, 2007, 2008 and 2013 exhausting to general ventilation, capacity: 2,000 bushels (112,000 pounds) of ear corn per hour for each line and each husker.
2. Two (2) natural gas-fired bin dryers will be modified. Two (2) natural gas-fired bin dryers identified as Dry 5 and Dry 6, approved for construction in 2008 and 2009 and approved for modification in 2013, exhausting to Stack Dry 5 and Stack Dry 6, with a drying rate of 500 bushels (28,000 pounds) per hour and a heat input capacity of 160 million British thermal units per hour (Drying rate and heat input need recalculated for 28 bins), each equipped with twenty eight (28) storage bins, identified as Dry 5 and Dry 6 Bins, used for drying with a capacity of 2,000 bushels (112,000 pounds), each.
3. One corn sheller will be added to the facility exhausting to a new baghouse. One (1) corn sheller, identified as Sheller #3, approved for construction in 2013, exhausting to a baghouse for particulate control, identified as CE15c, capacity: 2,500 bushels (140,000 pounds) of corn per hour.
4. Two new sheller aspirators will be added to the facility (Sheller Aspirator 3 & 4), they will vent to a new baghouse along with the existing aspirators. The new description will be the following: Four (4) aspirators, identified as Sheller Aspirator 1, Sheller Aspirator 2, Sheller Aspirator 3 and Sheller Aspirator 4 approved for construction in 2009 and 2013, exhausting to a baghouse for particulate control, identified as CE16 capacity 2,500 bushels (140,000 pounds) of corn per hour, each.
5. The storage bins will be renumbered. There are 12 bins that will be removed from the facility and 80 new bins will be added. The new description of the bins will be the following:

Two Hundred and forty eight (248) bulk storage bins identified as 451.01-451.31, 452.01-452.31, 453.01-453.31, 454.01-454.31, 455.01-455.31, 456.01-456.31, 457.01-457.31 and 458.01-458.31 constructed in 1999, 2007, 2008, 2009, and 2013 exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
(a) Storage bins 451.01-451.31, 454.01-454.31, 455.01-455.31, and 458.01-458.31 have a capacity of 7,500 bushels (420,000 pounds) each.
(b) Storage bins 452.01-452.31, 453.01-453.31, 456.01-456.31, and 457.01-457.31 have a capacity of 5,000 bushels (280,000 pounds) each.
6. The shelled corn loadout constructed in 1976 will be demolished and a new shelled corn loadout operation will be added. One (1) shelled corn loadout operation identified as Shelled Corn Loadout approved for

construction in 2013 with a maximum capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34r (House Dust System).

7. The 6 loadout bins will be replaced with 4 shelled corn loadout bins. Four (4) shelled corn loadout bins identified as 31.830, 31.840, 31.850 and 31.860 approved for construction in 2013 with a capacity of 2,500 bushels per hour (140,000 pounds) exhausting to a baghouse for particulate control, identified as CE-34R (House Dust System). Each bin has a capacity of 2,580 bushels (144,480 Lbs).
8. Four new cob bins will be installed. Four (4) cob bins identified as 31.810, 31.820, 31.870, and 31.880 approved for construction in 2013. Each has a capacity of 2,832 cubic feet (48,144 pounds) and is utilized for cob loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
9. One new dust bin will be installed. One (1) dust bin identified as 31.900 approved for construction in 2013 with a capacity of 3,000 cubic feet (60,000 pounds) and utilized for dust loadout exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
10. One shelled corn receiving operation will be installed. One (1) shelled corn receiving operation identified as Shelled Corn Receiving approved for construction in 2013 with a capacity of 5,000 bushels per hour (280,000 pounds) exhausting to a baghouse for particulate control, identified as CE-35 (Harvest Dust System).
11. One debagger will be added to the facility on the small lot system. The description of the small lot bagging system will be changed to the following: One (1) small lot bagging operation, constructed in 2005, approved for modification in 2013 consisting of a debagger identified EU106, the CBT-100 treater, identified as EU102, an aspirator, identified as EU103, and bagging unit 2, identified as EU104, exhausting to a baghouse, identified as CE14, capacity: 1000 bushels (56,000 pounds) per hour, total.
12. The following insignificant activities will be added to the permit:
 - (a) One Central Vacuum system identified as Tower Central Vac for general clean up.
 - (b) One Central Vacuum system identified as Sheller Central Vac for general clean up.
 - (c) One husk chopper identified as Husk Chopper, with a capacity of 500 bushels per hour (28,000 pounds per hour).
 - (d) Internal handling.
13. Calculations indicate that baghouses identified as Red Dust Collector, CE34, CE35, CE14, White Dust Collector 1 & 2, and Gravity Table Dust Collectors 1-16 do not have to be operated in order for the associated emission units to comply with 326 IAC 6-3-2.

Potential To Emit:

The following table presents a summary of the potential emissions from new and existing equipment associated with Monsanto's operations (with restrictions contained in this permit):

| Process/emission unit | Potential To Emit (tons/year) | | | | | | | |
|---|-------------------------------|------------------|-------------------|-----------------|------|-------|-----------------|---------------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | CO | NO _x | HAPs |
| Corn Receiving #1, #2, #3, and #4 | 3.50 | 0.78 | 0.13 | - | - | - | - | - |
| Huskers #1, #2, #3, and #4 | 6.10 | 3.40 | 0.58 | - | - | - | - | - |
| Dry #1, #2, #3, #4, #5 & #6 (grain drying) | 47.00 | 12.00 | 2.00 | - | - | - | - | - |
| Natural gas emissions of Dry #1, #2, #3, #4, #5, & #6 | 1.07 | 4.28 | 4.28 | 0.34 | 3.10 | 47.33 | 56.35 | 1.01 hexane 1.06 total |
| Sheller #1 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller #2 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller #3 | 0.96 | 0.96 | 0.96 | - | - | - | - | - |
| Sheller Aspirator 1 & 2 | 0.05 | 0.03 | 0.00 | - | - | - | - | - |
| Sheller Aspirator 3 & 4 | 0.05 | 0.03 | 0.00 | - | - | - | - | - |
| Bulk storage bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Shelled Corn Loadout | 6.45 | 2.18 | 0.37 | - | - | - | - | - |
| (4) Shelled Corn Loadout Bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| (4) Cob Loadout Bins | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Dust Bin 31.900 | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| Shelled Corn Receiving | 2.63 | 0.59 | 0.10 | - | - | - | - | - |
| Cleaners, Sorters, Sizers Line 1 | 1.90 | 1.90 | 1.90 | - | - | - | - | - |
| Cleaners, Sorters, Sizers Line 2 | 1.90 | 1.90 | 1.90 | - | - | - | - | - |
| Sixteen (16) gravity tables, identified as Gravity Tables Lines 1 and 2 | 23.00 | 14.03 | 14.03 | - | - | - | - | - |
| Storage Bins, Line 1 & 2 | 1.88 | 0.47 | 0.08 | - | - | - | - | - |
| One (1) bagging machine EU12 | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Treating & packaging storage bins | 1.88 | 0.47 | 0.083 | - | - | - | - | - |

| Process/emission unit | Potential To Emit (tons/year) | | | | | | | |
|--|-------------------------------|------------------|-------------------|-----------------|--------------|--------------|-----------------|-------------------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | VOC | CO | NO _x | HAPs |
| Seed Pak Filler | 11.22 | 6.25 | 1.07 | - | - | - | - | - |
| Refuge Scales 1 & 2 | 4.04 | 2.25 | 0.384 | - | - | - | - | - |
| One (1) small lot bagging operation, consisting of EU102 through EU104 | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Debagger EU106 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| One (1) debagger, identified as EU34 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| Three (3) Aspirators, identified as Aspirators 1 through 3 | 7.48 | 4.17 | 0.71 | - | - | - | - | - |
| Three (3) treaters, identified as Treaters 1, 2 & 3 | 11.22 | 6.25 | 1.07 | - | 90.00 | - | - | 0.21 glycol ethers 0.26 total |
| Dust Collector Loadouts | 0.75 | 0.25 | 0.043 | - | - | - | - | - |
| Insignificant Activities | | | | | | | | |
| Internal Handling | 4.58 | 2.55 | 0.435 | - | - | - | - | - |
| Husk Chopper | 1.53 | 0.85 | 0.15 | - | - | - | - | - |
| Sheller Central Vac | 0.45 | 0.45 | 0.45 | - | - | - | - | - |
| Tower Central Vac | 0.50 | 0.50 | 0.50 | - | - | - | - | - |
| Tanks | 0.00 | 0.00 | 0.00 | - | - | - | - | - |
| Bulk Seed Receiving | 10.73 | 2.39 | 0.40 | - | - | - | - | - |
| Heaters | 0.01 | 0.06 | 0.06 | - | - | - | - | - |
| Total Emissions | 184.44 | 86.23 | 36.22 | 0.34 | 93.10 | 47.33 | 56.35 | 1.01 hexane 1.32 total |

Greenhouse Gas Emissions

| | | | |
|---|--------------|-------------------|---------------|
| Natural gas emissions of Dry #1, #2, #3, #4, #5, & #6 | Total | CO2e (tpy) | 68,025 |
|---|--------------|-------------------|---------------|

PSD Requirements:

(1) Particulate Matter (PM) [326 IAC 2-2]

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

The PM emissions from the four (4) corn receiving lines, identified as Corn Receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, six (6) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, 5, and 6 (grain drying), three (3) Shellers identified as Sheller 1, 2, & 3, the four (4) sheller aspirators identified as Sheller Aspirators 1, 2, 3 & 4, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102-104 shall be limited to less than the throughput and emission limits specified in the following table:

| Emission Units (Control Device) | Limited Corn Throughput (tons/yr*) | PM Emission Limit (lbs PM/ton corn) |
|--|------------------------------------|-------------------------------------|
| Corn Receiving 1, 2, 3, and 4 | 200,000, total | 0.035 |
| Huskers 1, 2, 3, and 4 | 200,000, total | 0.061 |
| Dryers 1, 2, 3, 4, 5, and 6 | 200,000, total | 0.47 |
| Sheller 1, 2, & 3 (CE-15a, b & c) | 2,500 hours/year | 0.375 |
| Sheller Aspirators 1, 2, 3 & 4 (CE-16) | 150,000, each | 0.061 |
| Bagging Machine EU12 (Red Dust Collector) | 150,000 | 0.061 |
| Small Lot Bagging EU102 through EU104 (CE14) | 150,000, total | 0.061 |

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of each month.

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

Compliance with this limitation shall render the requirements of 326 IAC 2-2, PSD, not applicable.

(2) Particulate Matter (PM₁₀) [326 IAC 2-8-4]

In order to render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

The PM₁₀ emissions from the four (4) corn receiving lines, identified as corn receiving 1, 2, 3, and 4, four (4) huskers, identified as Husker 1, 2, 3, and 4, six (6) natural gas-fired bin dryers, identified as Dry 1, 2, 3, 4, 5, and 6 (grain drying), three (3) Shellers identified as Sheller 1, 2, & 3, the four (4) sheller aspirators identified as Sheller Aspirators 1, 2, 3 & 4, the one (1) bagging machine, identified as EU12, and the one (1) small lot bagging operation, consisting of EU102-104 shall be limited to less than the throughput and emission limits specified in the following table:

| Emission Units (Control Device) | Limited Corn Throughput (tons/yr*) | PM ₁₀ Emission Limit (lbs PM ₁₀ /ton corn) |
|--|------------------------------------|--|
| Corn Receiving 1, 2, 3, and 4 | 200,000, total | 0.0078 |
| Huskers 1, 2, 3, and 4 | 200,000, total | 0.034 |
| Dryers 1, 2, 3, 4, 5, and 6 | 200,000, total | 0.12 |
| Sheller 1, 2, & 3 (CE-15a, b & c) | 2,500 hours/year | 0.22875 |
| Sheller Aspirators 1, 2, 3 & 4 (Baghouse CE16) | 150,000, total | 0.034 |
| Bagging Machine EU12 (Red Dust Collector) | 150,000 | 0.034 |
| Small Lot Bagging EU102 through EU104 (CE14) | 150,000, total | 0.034 |

*Note that "yr" represents twelve (12) consecutive month period, with compliance determined at the end of

each month.

Compliance with these limits, combined with the potential to emit PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 to less than 100 tons per 12 consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

(3) Natural Gas Limit [326 IAC 2-8-4][326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) The total amount of natural gas burned in dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall be less than 1,126.9 million cubic feet (MMCF) per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (b) NOx emissions from dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall not exceed 100 pounds per million cubic foot (lb/MMCF);
- (c) CO emissions from dryers Dry 1, Dry 2, Dry 3, Dry 4, Dry 5, and Dry 6 shall not exceed 84 pounds per million cubic foot (lb/MMCF);
- (d) carbon dioxide (CO₂) emissions from natural gas combustion shall not exceed 120,000 pounds per million cubic foot (lb/MMCF);
- (e) methane (CH₄) emissions from natural gas combustion shall not exceed 2.3 pounds per million cubic foot (lb/MMCF);
- (f) nitrous oxide (N₂O) emissions from natural gas combustion shall not exceed 2.2 pounds per million cubic foot (lb/MMCF);
- (g) the Global Warming Potential (GWP) for carbon dioxide (CO₂) shall not exceed 1.0;
- (h) the Global Warming Potential (GWP) for methane (CH₄) shall not exceed 21; and
- (i) the Global Warming Potential (GWP) for nitrous oxide (N₂O) shall not exceed 310.

Compliance with these limits, combined with the NOx, CO, and carbon dioxide equivalent emissions (CO₂e) from all other emission units at the source, shall limit the source-wide total NOx and CO emissions to less than 100 tons per twelve (12) consecutive month period, each, the source-wide total greenhouse gas (GHG) emissions to less than 100,000 tons of carbon dioxide equivalent emissions (CO₂e) per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

NSPS Requirements:

There is no applicable NSPS rule applicable to this operation or equipment.

NESHAP Requirements:

There is no applicable NESHAP rule applicable to this operation or equipment.

State Rules & Requirements:

(4) Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where} \quad E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

| Emission Unit (baghouse) | Process weight rate (tons per hour) | Allowable particulate emission rate (pounds per hour) |
|--|--|--|
| Corn Receiving 1, 2, 3 & 4 (none) | 56.0 each | 45.64 each |
| Huskers 1, 2, 3, & 4 part of Corn Receiving 1, 2, 3, & 4 (none) | 56.0 each | 45.64 each |
| Natural gas-fired bin dryers, identified as Dry 1, Dry 2, Dry 3, Dry 4, Dry 5 & Dry 6 (Stack Dry 1, 2, 3, 4, 5, & 6) | 14.0 each, Dry 1, 2, 3 & 4 22.0 each, Dry 5 & 6 | 24.03 each Dry 1-4 32.31 each Dry 5 & 6 |
| Three (3) Corn Shellers, identified as Sheller 1, Sheller 2 & Sheller 3 (Baghouses CE 15a, b, & c) | 70.0 each | 70.63 each |
| Sheller Aspirators 3 & 4 | 140.0 total | 54.72 total |
| Shelled Corn Loadout | 70.0 | 70.63 |
| Four (4) Shelled Corn Loadout Bins | 70.0 | 70.63 |
| Four (4) Cob Bins | 24.0 each | 34.55 each |
| Dust Bin 31.900 | 30.0 | 40.04 |
| Shelled Corn Receiving | 140.0 | 54.72 |
| Internal Handling | 28.0 | 39.35 |
| Debagger EU106 | 28.0 | 38.23 |
| 248 Bulk Storage Bins | 28.0 each | 38.23 each |

(5) Opacity [326 IAC 5-1]

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

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

Compliance Monitoring Requirements

(6) Visible Emission Notations

- (a) Visible emission notations of CE15c and CE16 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response steps. Section C – Response to Excursions and Exceedances contains the Permittee’s obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

(7) Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses, identified as CE15c and CE16, used in conjunction with Sheller #3 and Sheller Aspirators 1, 2, 3, and 4, at least once per day when Sheller #3 or Sheller Aspirators 1, 2, 3, or 4 are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take reasonable response. The normal range for these units is a pressure drop between 1.0 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Federal Enforceability:

The company consents to the federal enforceability of this interim petition.

Signature: _____

Printed Name: John Sturges

Title or Position: Site Manager

Phone No.: (219) 261-2122

Date: _____



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: John Sturges
Monsanto Company
15849 S U.S. Highway 231
PO Box 35
Remington, IN 47977

DATE: January 10, 2013

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

SUBJECT: Final Decision
Interim Significant Permit Revision Petition Approval
073-32601i-00035

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
David Jordan – Environmental Resources Management (ERM)
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

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|----------------------------|---|---|---|--|
| IDEM Staff | GHOTOPP 1/10/2013 Monsanto Company 073-32601i-00035 Final | | Type of Mail: CERTIFICATE OF MAILING ONLY | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING |
| Name and address of Sender |  | Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204 | | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handing Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|--|---------|-----------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1 | | John Sturges Monsanto Company PO Box 35, 15849 S US Hwy 231 Remington IN 47977 (Source CAATS) via confirmed delivery | | | | | | | | | | |
| 2 | | Jasper County Commissioners 115 W. Washington Street Rensselaer IN 47978 (Local Official) | | | | | | | | | | |
| 3 | | Jasper County Health Department 105 W. Kellner St Rensselaer IN 47978-2623 (Health Department) | | | | | | | | | | |
| 4 | | Mr. Kenny Haun P.O. Box 280 Rensselaer IN 47978 (Affected Party) | | | | | | | | | | |
| 5 | | David Jordan Environmental Resources Management (ERM) 11350 North Meridian, Suite 320 Carmel IN 46032 (Consultant) | | | | | | | | | | |
| 6 | | Remington Town Coucil P.O. Box 70 Remington IN 47977 (Local Official) | | | | | | | | | | |
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