Source Contact: Scott Blazak
Phone: (765) 935 - 7071

AIR PERMIT APPLICATION COVER SHEET

State Form 50639 (R4 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

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

FOR OFFICE USE ONLY

PERMIT NUMBER: 177-48023-00041 AI ID: 11760

DATE APPLICATION WAS RECEIVED:

Received by State of Indiana IDEM-OAQ
via email June 28, 2024 MJ-4

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: Hills Pet Nutrition **3. Plant ID:** 117 – 00041

4. Billing Address: 2325 Union Pike

City: Richmond **State:** IN **ZIP Code:** 47374 –

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

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

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

☒ Transition (between permit levels) *From:* SSOA/PBR *To:* TVOP

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

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

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

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

Continued on Next Page

PART B: Pre-Application Meeting

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

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

☐ No ☒ Yes: *Date:* 12/19/2023

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:* 10/1/2024

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.*

Mark Hodge
Name *(typed)*

Director of Manufacturing
Title

M Hodge
Signature

June 27, 2024
Date

OAQ AIR PERMIT APPLICATION – FORMS CHECKLIST

State Form 51607 (R5 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

- The purpose of this checklist is to help the applicant and IDEM, OAQ ensure that the air permit application packet is administratively complete. This checklist is a required form.
- Check the appropriate box indicating whether each application form is applicable for the current permit application. The source must submit only those forms pertinent to the current permit application.
- Place this checklist between the cover sheet and all subsequent forms and attachments that encompass your air permit application packet.

Part A: General Source Data

Applicable?	Form ID	Title of Form	State Form Number	When should this form be included in my application packet?
☒ Y ☐ N	COVER	Application Cover Sheet	50639	Include for every application, modification, and renewal, including source specific operating agreements (SSOA).
☒ Y ☐ N	CHECKLIST	Forms Checklist	51607	Include for every application, modification, and renewal, including SSOA.
☒ Y ☐ N	GSD-01	Basic Source Level Information	50640	Include for every application, modification, and renewal, including SSOA.
☒ Y ☐ N	GSD-02	Plant Layout Diagram	51605	Include for every new source application, and modification.
☒ Y ☐ N	GSD-03	Process Flow Diagram	51599	Include one for every process covered by the application.
☒ Y ☐ N	GSD-04	Stack / Vent Information	51606	Include for every new source application, and modification.
☒ Y ☐ N	GSD-05	Emissions Unit Information	51610	Include for every process covered by the application.
☒ Y ☐ N	GSD-06	Particulate Emissions Summary	51612	Include if the process has particulate emissions (PM).
☒ Y ☐ N	GSD-07	Criteria Pollutant Emissions Summary	51602	Include if the process has criteria pollutant emissions.
☒ Y ☐ N	GSD-08	HAP Emissions Summary	51604	Include if the process has hazardous air pollutant emissions (HAP).
☐ Y ☒ N	GSD-09	Summary of Additional Information	51611	Include if the additional information is included.
☐ Y ☒ N	GSD-10	Insignificant Activities	51596	Include if there are unpermitted insignificant activities.
☐ Y ☒ N	GSD-11	Alternative Operating Scenario	51601	Include if an AOS is requested.
☐ Y ☒ N	GSD-12	Affidavit of Nonapplicability	51600	Include if the standard notification requirements do not apply.
☒ Y ☐ N	GSD-13	Affidavit of Applicability	51603	Include if the standard notification requirements apply.
☒ Y ☐ N	GSD-14	Owners and Occupants Notified	51609	Include if the standard notification requirements apply.
☒ Y ☐ N	GSD-15	Government Officials Notified	51608	Include if the standard notification requirements apply.
☐ Y ☒ N	RENEWAL	Renewal Checklist	51755	Include with every operating permit renewal packet.

Continued on Next Page

Part B: Process Information				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	AEF-01	Alternate Emission Factor Request	51860	Submit if you are requesting to use an emission factor other than AP-42.
☐ Y ☐ N	PI-01	Miscellaneous Processes	52534	Include one form for each process for which there is not a specific PI form.
☒ Y ☐ N	PI-02A	Combustion Unit Summary	52535	Include one form to summarize all combustion units *(unless SSOA).*
☒ Y ☐ N	PI-02B	*Combustion:* Boilers, Process Heaters, & Furnaces	52536	Include one form for each boiler, process heater, or furnace *(unless SSOA).*
☐ Y ☒ N	PI-02C	*Combustion:* Turbines & Internal Combustion Engines	52537	Include one form for each turbine or internal combustion engine *(unless SSOA).*
☐ Y ☒ N	PI-02D	*Combustion:* Incinerators & Combustors	52538	Include one form for each incinerator or combustor *(unless SSOA).*
☐ Y ☒ N	PI-02E	*Combustion:* Kilns	52539	Include one form for each kiln *(unless SSOA).*
☒ Y ☐ N	PI-02F	*Combustion:* Fuel Use	52540	Include one form for each combustion unit *(unless SSOA).*
☒ Y ☐ N	PI-02G	*Combustion:* Emission Factors	52541	Include one form for each combustion unit *(unless SSOA).*
☒ Y ☐ N	PI-02H	*Combustion:* Federal Rule Applicability	52542	Include one form for each combustion unit *(unless SSOA).*
☒ Y ☐ N	PI-03	Storage and Handling of Bulk Material	52543	Include if the process involves the storage and handling of bulk materials.
☐ Y ☒ N	PI-04	Asphalt Plants	52544	Include for each asphalt plant process (*unless general permit*).
☐ Y ☒ N	PI-05	Brick / Clay Products	52545	Include for each brick and/or clay products process.
☐ Y ☒ N	PI-06	Electroplating Operations	52546	Include for each electroplating process.
☐ Y ☒ N	PI-07	Welding Operations	52547	Include for each welding process.
☐ Y ☒ N	PI-08	Concrete Batchers	52548	Include for each concrete batcher *(unless SSOA).*
☐ Y ☒ N	PI-09	Degreasing	52549	Include for each degreasing process *(unless SSOA).*
☐ Y ☒ N	PI-10	Dry Cleaners	52550	Include for each dry cleaning process
☐ Y ☒ N	PI-11	Foundry Operations	52551	Include for each foundry process
☒ Y ☐ N	PI-12	Grain Elevators	52552	Include for each grain elevator *(unless SSOA).*
☐ Y ☒ N	PI-13	Lime Manufacturing	52553	Include for each lime manufacturing process.
☐ Y ☐ N	PI-14	Liquid Organic Compound Storage	52554 (doc)	Include if the process involves the storage of liquid organic compounds.
☐ Y ☐ N	PI-14ALT	Alternate version of Liquid Organic Compound Storage	52555 (xls)	Include if the process involves the storage of liquid organic compounds and there are several storage vessels.
☐ Y ☒ N	PI-15	Portland Cement Manufacturing	52556	Include for each Portland cement manufacturing process.
☐ Y ☒ N	PI-16	Reinforced Plastics & Composites	52557	Include for each reinforced plastics and composites process.

Continued on Next Page

Part B: Process Information				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	PI-17	Blasting Operations	52558	Include for each blasting process *(unless SSOA).*
☐ Y ☒ N	PI-18	Mineral Processing	52559	Include if the process involves mineral processing *(unless SSOA)*.
☐ Y ☒ N	PI-19	Surface Coating & Printing Operations	52560	Include for each surface coating or printing process *(unless SSOA).*
☐ Y ☒ N	PI-20	Woodworking / Plastic Machining	52561	Include for each woodworking or plastic machining process *(unless SSOA).*
☐ Y ☒ N	PI-21	Site Remediation	52570	Include for each soil remediation process.
☐ Y ☒ N	PI-22	Ethanol Plants ***(Under Development)***	None	Include for each ethanol plant.

Part C: Control Equipment				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☒ Y ☐ N	CE-01	Control Equipment Summary	51904	Include if add-on control equipment will be used for the process.
☒ Y ☐ N	CE-02	Particulates – Baghouse / Fabric Filter	51953	Include for each baghouse or fabric filter.
☒ Y ☐ N	CE-03	Particulates – Cyclone	52620	Include for each cyclone.
☐ Y ☒ N	CE-04	Particulates – Electrostatic Precipitator	52621	Include for each electrostatic precipitator.
☐ Y ☒ N	CE-05	Particulates – Wet Collector / Scrubber / Absorber	52622	Include for each wet collector, scrubber, or absorber.
☐ Y ☒ N	CE-06	Organics – Flare / Oxidizer / Incinerator	52623	Include for each flare, oxidizer, or incinerator.
☐ Y ☒ N	CE-07	Organics – Adsorbers	52624	Include for each adsorber.
☐ Y ☒ N	CE-08	Organics – Condenser	52625	Include for each condenser.
☐ Y ☒ N	CE-09	Reduction Technology	52626	Include for each control device using reduction technology (e.g., SCR, SNCR).
☐ Y ☒ N	CE-10	Miscellaneous Control Equipment	52436	Include one form for equipment for which there is not a specific CE form.

Continued on Next Page

Part D: Compliance Determination for Part 70 Sources				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☒ Y ☐ N	CD-01	Emissions Unit Compliance Status	51861	Include for every Title V application, including modifications.
☒ Y ☐ N	CD-02	Compliance Plan by Applicable Requirement	51862	Include for every Title V application, including modifications.
☒ Y ☐ N	CD-03	Compliance Plan by Emissions Unit	51863	Include for every Title V application, including modifications.
☒ Y ☐ N	CD-04	Compliance Schedule and Certification	51864	Include for every Title V application, including modifications and renewal.
☒ Y ☐ N	FED-03	Compliance Assurance Monitoring	53377	Include for every Title V application, including modifications.

Part E: Best Available Control Technology				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	BACT-01	Analysis of Best Available Control Technology	None	Include for every BACT application.
☐ Y ☒ N	BACT-01a	Background Search: Existing BACT Determinations	None	Include for every BACT application.
☐ Y ☒ N	BACT-01b	Cost/Economic Impact Analysis	None	Include for every BACT application.
☐ Y ☒ N	BACT-02	Summary of Best Available Control Technology	None	Include for every BACT application.
☐ Y ☒ N	PSD / EO-01	PSD / Emission Offset Checklist	None	Include for every PSD application and every NSR application that requires emission offsets.

Part F: Emission Credit Registry				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	EC-01	Generation of Emission Credits	51783	Include if the modification results in emission reductions.
☐ Y ☒ N	EC-02	Transfer of Emission Credits	51784	Submit whenever registered emission credits are transferred.
☐ Y ☒ N	EC-03	Use of Emission Credits	51785	Include if the modification requires the use of emission credits for offsets.
☐ Y ☒ N	EC-04	Emission Credit Request	51906	Submit if you are looking for emission credits for offsets.

Continued on Next Page

Part G: Plantwide Applicability Limits				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	PAL-01	Actuals Plantwide Applicability Limit	52451	Include if the modification results in emission reductions.
☐ Y ☒ N	PAL-02	Revised Plantwide Applicability Limit	52452	Submit whenever registered emission credits are transferred.
☐ Y ☒ N	PAL-03	Plantwide Applicability Limit Renewal	52453	Include if the modification requires the use of emission credits for offsets.
☐ Y ☒ N	PAL-04	Request for Termination of Plantwide Applicability Limit	52454	Submit if you are looking for emission credits for offsets.

Part H: Air Toxics				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	FED-01	Summary of Federal Requirements – NSPS & NESHAP	53512	Include for each 40 CFR Part 60 NSPS, 40 CFR Part 61 NESHAP, and 40 CFR Part 63 NESHAP applicable to the process.
☐ Y ☒ N	FED-02	MACT Pre-Construction Review	51905	Include if constructing or modifying a process subject to a Part 63 NESHAP.
☐ Y ☒ N	No Form ID	MACT Initial Notification	None	This form is available on the U.S. EPA website. Completed notifications should be submitted to the IDEM Compliance Branch.

Part I: Special Permits				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	INTERIM	Interim Approval	None	Submit if you are applying for interim operating approval.
☐ Y ☒ N	ASPHALT	Asphalt General Permit	None	Submit if you are applying for or modifying an asphalt plant general permit.
☐ Y ☒ N	NOXBTP	NO_X Budget Permit	None	Submit if you are a power plant or if you have opted in to the NO_X budget trading program.
☐ Y ☒ N	ACIDRAIN	Phase 2 Acid Rain Permit	None	Submit if you are applying for, modifying, or renewing a Phase 2 Acid Rain permit.

Continued on Next Page

Part J: Source Specific Operating Agreements (SSOA)				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	OA-01	Summary of Application and Existing Agreements	53438	Submit if you are applying for or modifying a Source Specific Operating Agreement.
☐ Y ☒ N	OA-02	Industrial / Commercial Surface Coating Operations -OR- Graphic Arts Operations (326 IAC 2-9-2.5)	53439	Submit if you are applying for or modifying a SSOA for industrial or commercial surface coating operations not subject to 326 IAC 8-2; or graphic arts operations not subject to 326 IAC 8-5-5.
☐ Y ☒ N	OA-03	Surface Coating or Graphic Arts Operations (326 IAC 2-9-3)	53440	Submit if you are applying for or modifying a SSOA for surface coating or graphic arts operations.
☐ Y ☒ N	OA-04	Woodworking Operations (326 IAC 2-9-4)	53441	Submit if you are applying for or modifying a SSOA for woodworking operations.
☐ Y ☒ N	OA-05	Abrasive Cleaning Operations (326 IAC 2-9-5)	53442	Submit if you are applying for or modifying a SSOA for abrasive cleaning operations.
☐ Y ☒ N	OA-06	Grain Elevators (326 IAC 2-9-6)	53443	Submit if you are applying for or modifying a SSOA for grain elevators.
☐ Y ☒ N	OA-07	Sand And Gravel Plants (326 IAC 2-9-7)	53444	Submit if you are applying for or modifying a SSOA for sand and gravel plants.
☐ Y ☒ N	OA-08	Crushed Stone Processing Plants (326 IAC 2-9-8)	53445	Submit if you are applying for or modifying a SSOA for crushed stone processing plants.
☐ Y ☒ N	OA-09	Ready-Mix Concrete Batch Plants (326 IAC 2-9-9)	53446	Submit if you are applying for or modifying a SSOA for ready-mix concrete batch plants.
☐ Y ☒ N	OA-10	Coal Mines And Coal Preparation Plants (326 IAC 2-9-10)	53447	Submit if you are applying for or modifying a SSOA for coal mines and coal preparation plants.
☐ Y ☒ N	OA-11	Automobile Refinishing Operations (326 IAC 2-9-11)	53448	Submit if you are applying for or modifying a SSOA for automobile refinishing operations.
☐ Y ☒ N	OA-12	Degreasing Operations (326 IAC 2-9-12)	53449	Submit if you are applying for or modifying a SSOA for degreasing operations.
☐ Y ☒ N	OA-13	External Combustion Sources (326 IAC 2-9-13)	53450	Submit if you are applying for or modifying a SSOA for external combustion sources.
☐ Y ☒ N	OA-14	Internal Combustion Sources (326 IAC 2-9-14)	53451	Submit if you are applying for or modifying a SSOA for internal combustion sources.

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

State Form 50640 (R5 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

Received by State of Indiana IDEM-OAQ
via email June 28, 2024 MJ-4

NOTES:

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

177 -48023-00041

PART A: Source / Company Location Information

1. **Source / Company Name**: Hills Pet Nutrition
2. **Plant ID**: 177 – 00041
3. **Location Address**: 2325 Union Pike
   - **City**: Richmond
   - **State**: IN
   - **ZIP Code**: 47374 – 9701
4. **County Name**: Wayne
5. **Township Name**: Wayne
6. **Geographic Coordinates**:
   - **Latitude**: 39.860092720787144
   - **Longitude**: -84.90416611993476
7. **Universal Transferal Mercadum Coordinates** *(if known)*:
   - **Zone**: 16N
   - **Horizontal**: 679270
   - **Vertical**: 4414331
8. **Adjacent States**: Is the source located within 50 miles of an adjacent state?
   ☐ No ☐ Yes – *Indicate Adjacent State(s):* ☐ Illinois (IL) ☐ Michigan (MI) ☒ Ohio (OH) ☒ Kentucky (KY)
9. **Attainment Area Designation**: Is the source located within a non-attainment area for any of the criteria air pollutants?
   ☒ No ☐ Yes – *Indicate Nonattainment Pollutant(s):* ☐ CO ☐ Pb ☐ NO_x ☐ O_3 ☐ PM ☐ PM_{10} ☐ $PM_{2.5}$ ☐ SO_2
10. **Portable / Stationary**: Is this a portable or stationary source? ☐ Portable ☒ Stationary

PART B: Source Summary

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

Continued on Next Page

PART C: Source Contact Information

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

18. Name of Source Contact Person: Scott Blazak

19. Title *(optional)*: EHS Manager

20. Mailing Address: 2325 Union Pike

City: Richmond	**State**: IN	**ZIP Code**: 47374 – 9701

21. Electronic Mail Address *(optional)*: scott_blazak@hillspet.com

22. Telephone Number: (765) 935 – 7071	**23. Facsimile Number** *(optional)*: ( ) –

PART D: Authorized Individual/Responsible Official Information

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

24. Name of Authorized Individual or Responsible Official: Mark Hodge

25. Title: Manufacturing Director

26. Mailing Address: 2325 Union Pike

City: Richmond	**State**: IN	**ZIP Code**: 47374 – 9701

27. Telephone Number: (864) 545 – 0781	**28. Facsimile Number** *(optional)*: ( ) –

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

☒ No ☐ Yes – ***Change Responsible Official to:***

PART E: Owner Information

30. Company Name of Owner: Colgate-Palmolive

31. Name of Owner Contact Person: Mark Hodge

32. Mailing Address: 2325 Union Pike

City: Richmond	**State**: IN	**ZIP Code**: 47374 – 9701

33. Telephone Number: (864) 554 – 0781	**34. Facsimile Number** *(optional)*: ( ) –

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

☒ No – *Proceed to Part F below.*	☐ Yes – *Enter "SAME AS OWNER" on line 35 and proceed to Part G below.*

PART F: Operator Information

35. Company Name of Operator: Hills Pet Nutrition

36. Name of Operator Contact Person: Scott Blazak

37. Mailing Address: 2325 Union Pike

City: Richmond	**State**: IN	**ZIP Code**: 47374 – 9701

38. Telephone Number: (765) 973 – 2384	**39. Facsimile Number** *(optional)*: ( ) –

Continued on Next Page

PART G: Agent Information

40. Company Name of Agent: Fisher Arnold, Inc.

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

42. Name of Agent Contact Person: Brian Perdomo

43. Mailing Address: 256 Seaboard Lane, Ste A101

City: Franklin	**State**: TN	**ZIP Code**: 37067 –

44. Electronic Mail Address *(optional)*: bperdomo@fisherarnold.com

45. Telephone Number: (615) 353 – 1340	**46. Facsimile Number** *(optional)*: ( ) –

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

PART H: Local Library Information

48. Date application packet was filed with the local library: 01/20/2024

49. Name of Library: Morrisson-Reeves Library

50. Name of Librarian *(optional)*:

51. Mailing Address: 80 North 6th Street

City: Richmond	**State**: IN	**ZIP Code**: 47374 –

52. Internet Address *(optional)*: www.mrlinfo.org

53. Electronic Mail Address *(optional)*: library@mrlinfo.org

54. Telephone Number: (765) 966 – 8291	**55. Facsimile Number** *(optional)*: (765) 962 – 1318

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

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

56. Legal Name of Company	**57. Dates of Use**
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to

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

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

Continued on Next Page

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

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

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

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

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

62. Current Location:

Address:

City: **State**: **ZIP Code**: –

County Name:

63. New Location:

Address:

City: **State**: **ZIP Code**: –

County Name:

Continued on Next Page

PART L: Source Process Description

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

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Dog and Cat Food Manufacturing	Dog and Cat Food	2047	311111

PART M: Existing Approvals *(if applicable)*

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

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

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

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

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

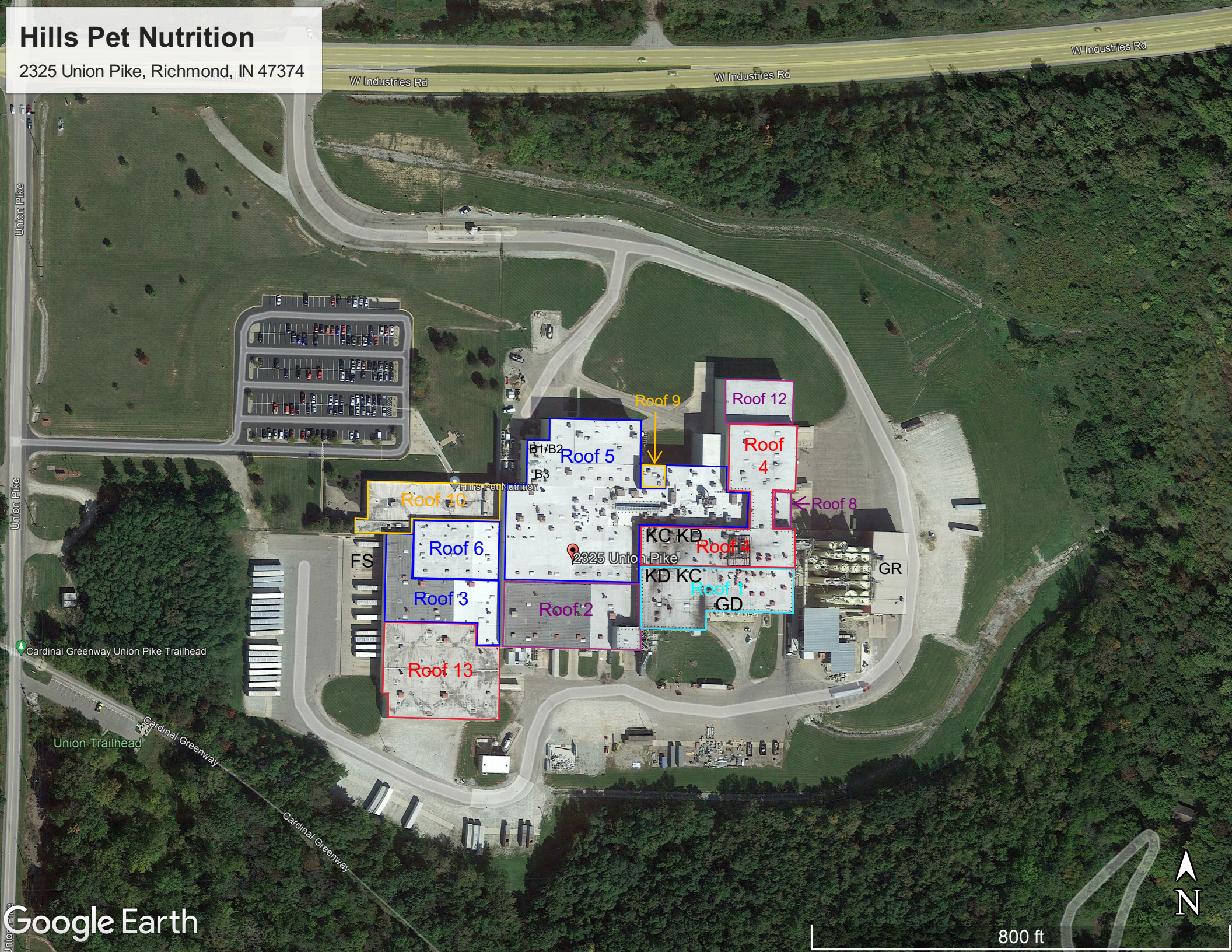
PART O: New or Modified Emissions Units *(if applicable)*

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

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

Hills Pet Nutrition

2325 Union Pike, Richmond, IN 47374



HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
UNLOADING PIT #1
SOFTSTOCK

Hill's
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D101

NOTICE

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HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:

TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN–LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
UNLOADING PIT #2
CORN, RICE, WHEAT, BARLEY, MILO & CELLULOSE

Hill's

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D–D102

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

TITLE:
RICHMOND PFD
WHOLE GRAIN
STORAGE

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D104

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 09-10-12
APPROVED:

TITLE:
RICHMOND PFD
SCIENCE DIET RELAUNCH
SYSTEM

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D105

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

LINE #1 BATCHING

Hill's ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D106

[redacted]

NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
LINE #2 BATCHING

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D107

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

TITLE:

RICHMOND PFD
LINE #3/4 BATCHING

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D108

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

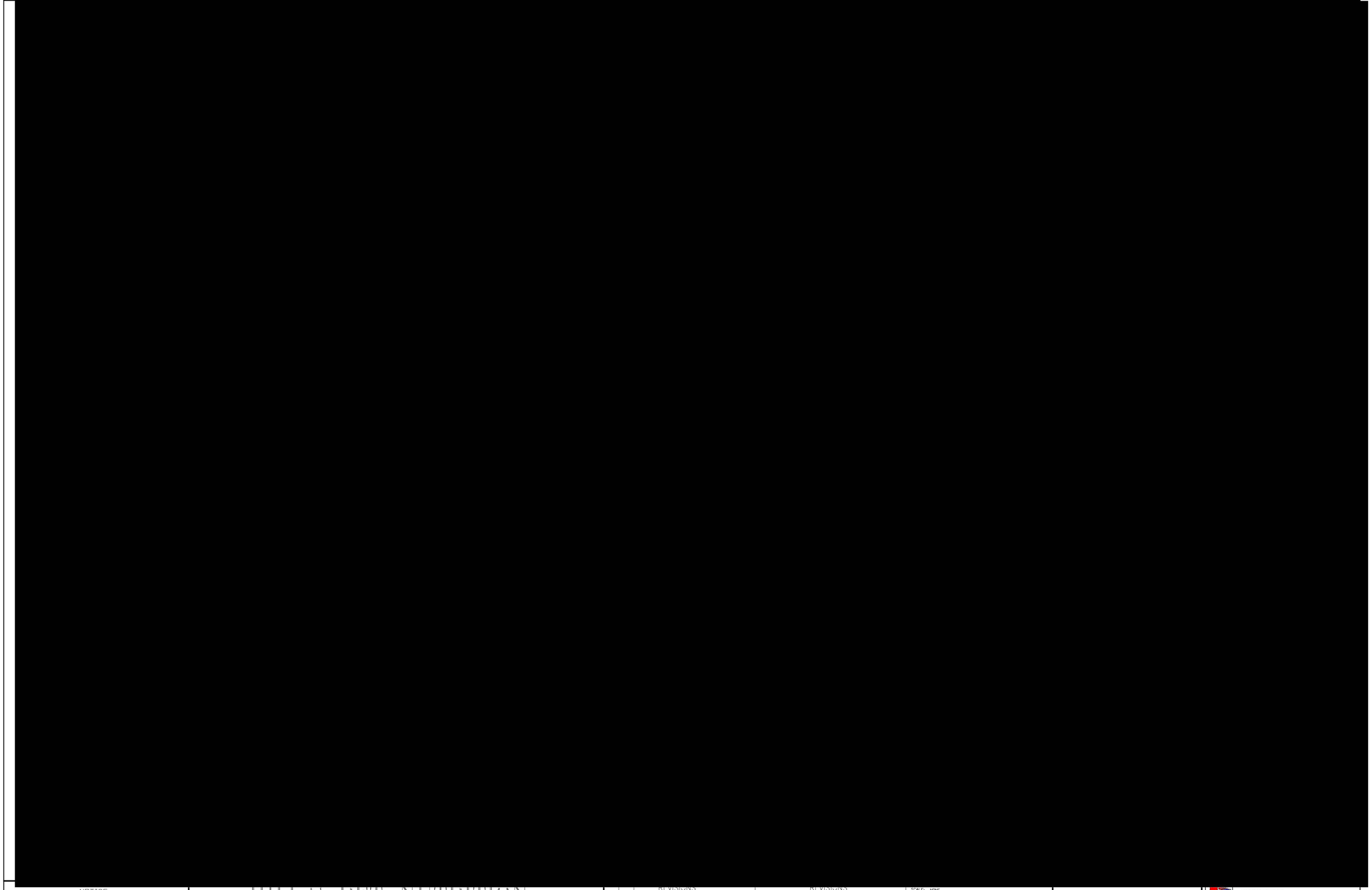
DEPT:
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND FTD
FINISH GRIND HAMMERMILLS

Hill's ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D109



NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.
	10-22	Added line 1 Gentle Roll and Filter receiver			

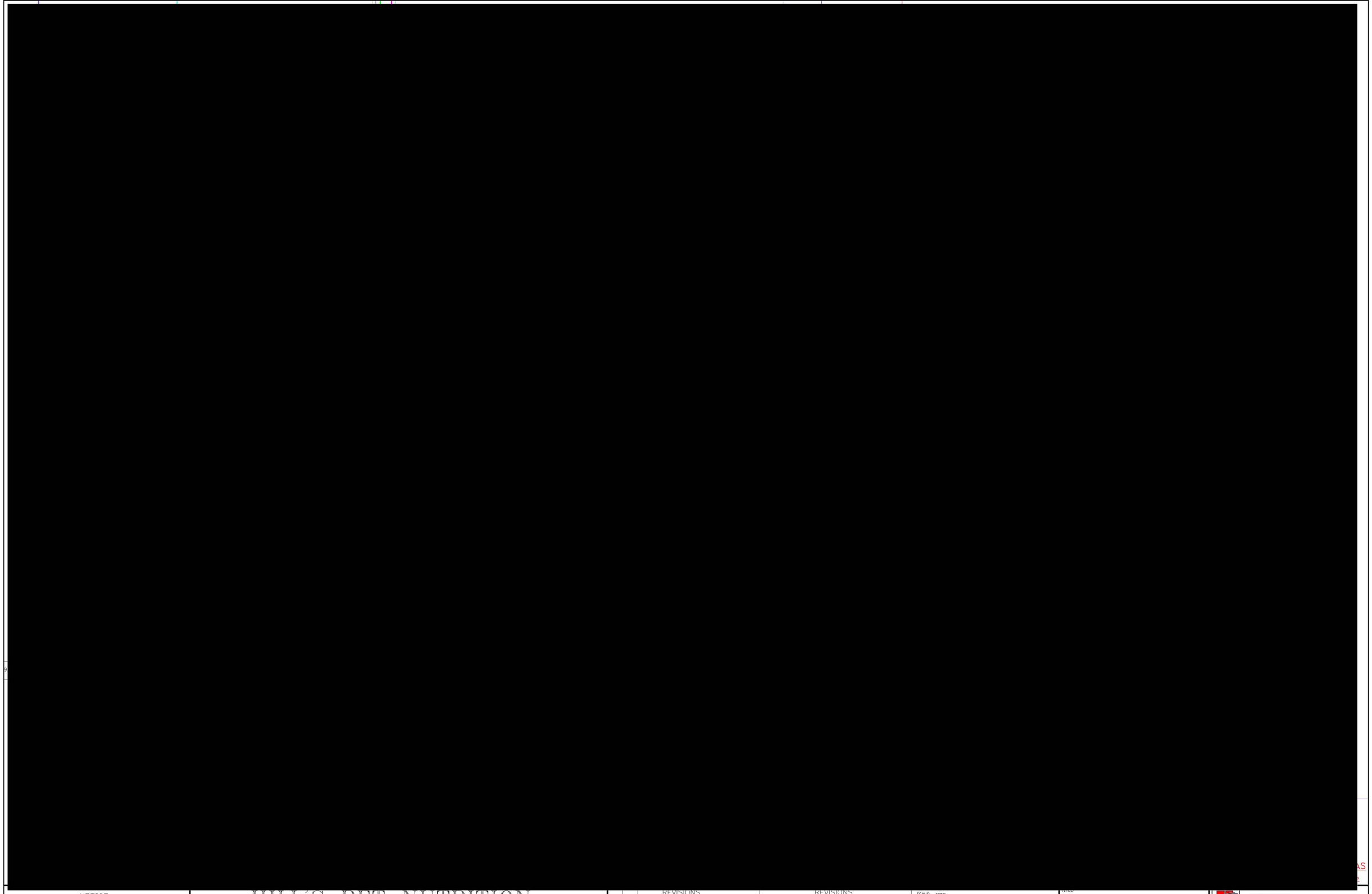
SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
LINE 1 PROCESSING

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D110



NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.
	10-22	Added Line 2 Gentle roll and Filter receiver			

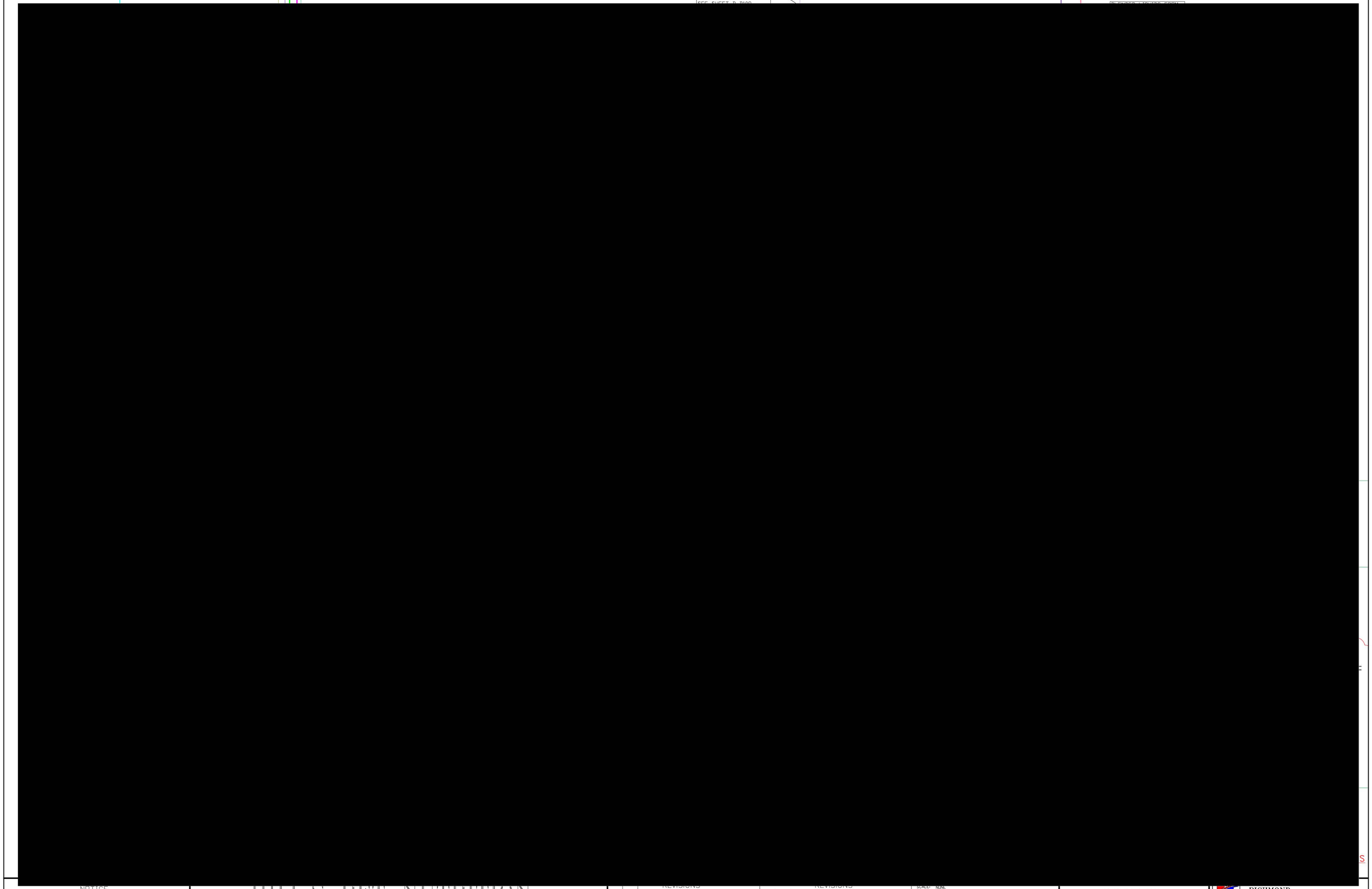
SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
LINE 2 PROCESSING

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D111



HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
LINE 3 PROCESSING

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D112

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

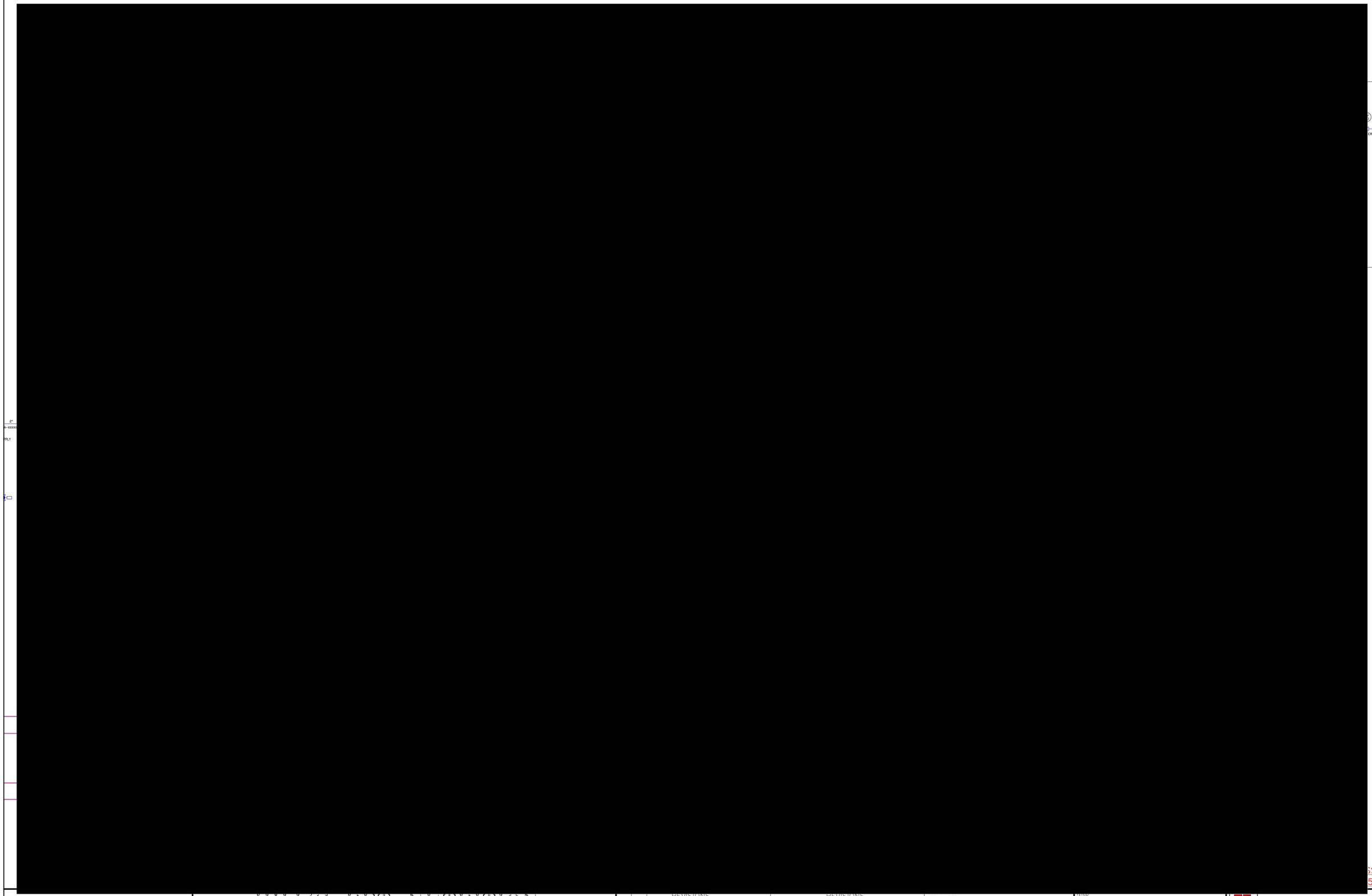
RICHMOND PFD
LINE 4 PROCESSING

Hill's

ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D113



HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS

NO.	DATE	REV.
1	02/01/10	REDRAWN AND REVISED
2	09/03/15	REVISED LOCATION CALL-OUT, REMOVED TOTE DUMPER

REVISIONS

NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED

RICHMOND PFD
MEAT SYSTEM

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ NUMBER | DRAWING NUMBER: D-D114 | REV.: 2

[redacted]

LAST UPDATE AS OF 08/13/13

NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

TITLE:
RICHMOND PFD
FINISHED PRODUCT STORAGE

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D115

[redacted]

SS.
3

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HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

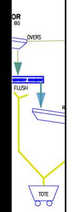
SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

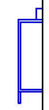
TITLE:
RICHMOND PFD
OFF-LINE FINISHED
PRODUCT STORAGE

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D116





RESS.
/13

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

REVISIONS

NO.	DATE	REV.

REVISIONS

NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD PACKAGING

Hill's

RICHMOND ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D117

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

TITLE:
RICHMOND PFD
CWG SYSTEM
W/ PHOSPHORIC ACID

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D118

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

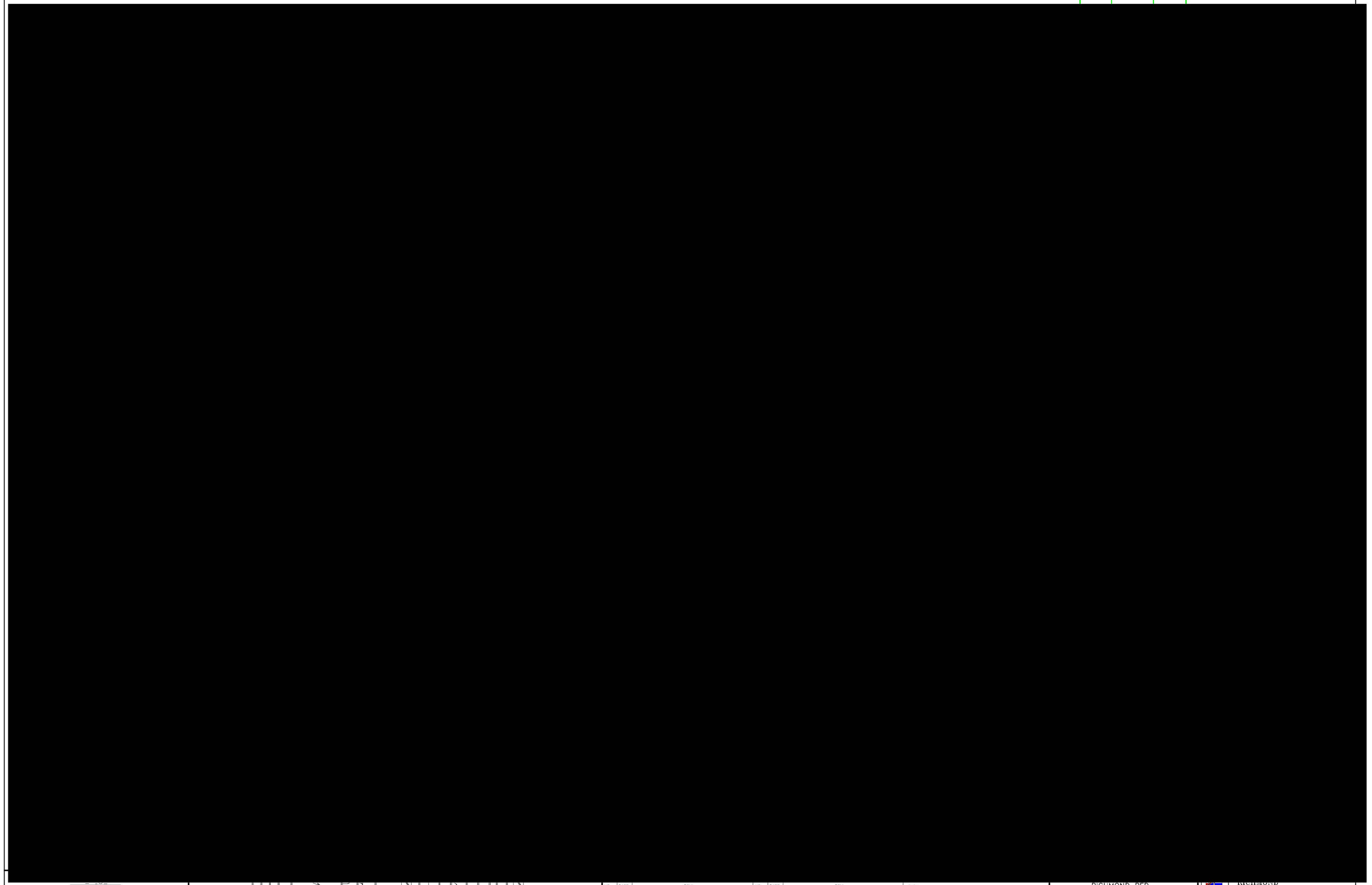
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
LIQUID CHOLINE CHLORIDE SYSTEM

Hill's RICHMOND ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER: D-D119



HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
SOY OIL SYSTEM

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D120

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
LDPE SYSTEM

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D121

NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

TITLE:

RICHMOND PFD
SPARE LIQUID SYSTEM

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D122

[redacted]

PANEL
D-D125

GRESS.
8/14

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HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 09/01/12
APPROVED:

TITLE:
RICHMOND PFD
HOT EGG FLAVOR
GENERATOR SYSTEM

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:
DRAWING NUMBER:
D-D123

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED:

RICHMOND PFD
FISH OIL SYSTEM

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D124

NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: DS
DATE: 12-31-04
APPROVED

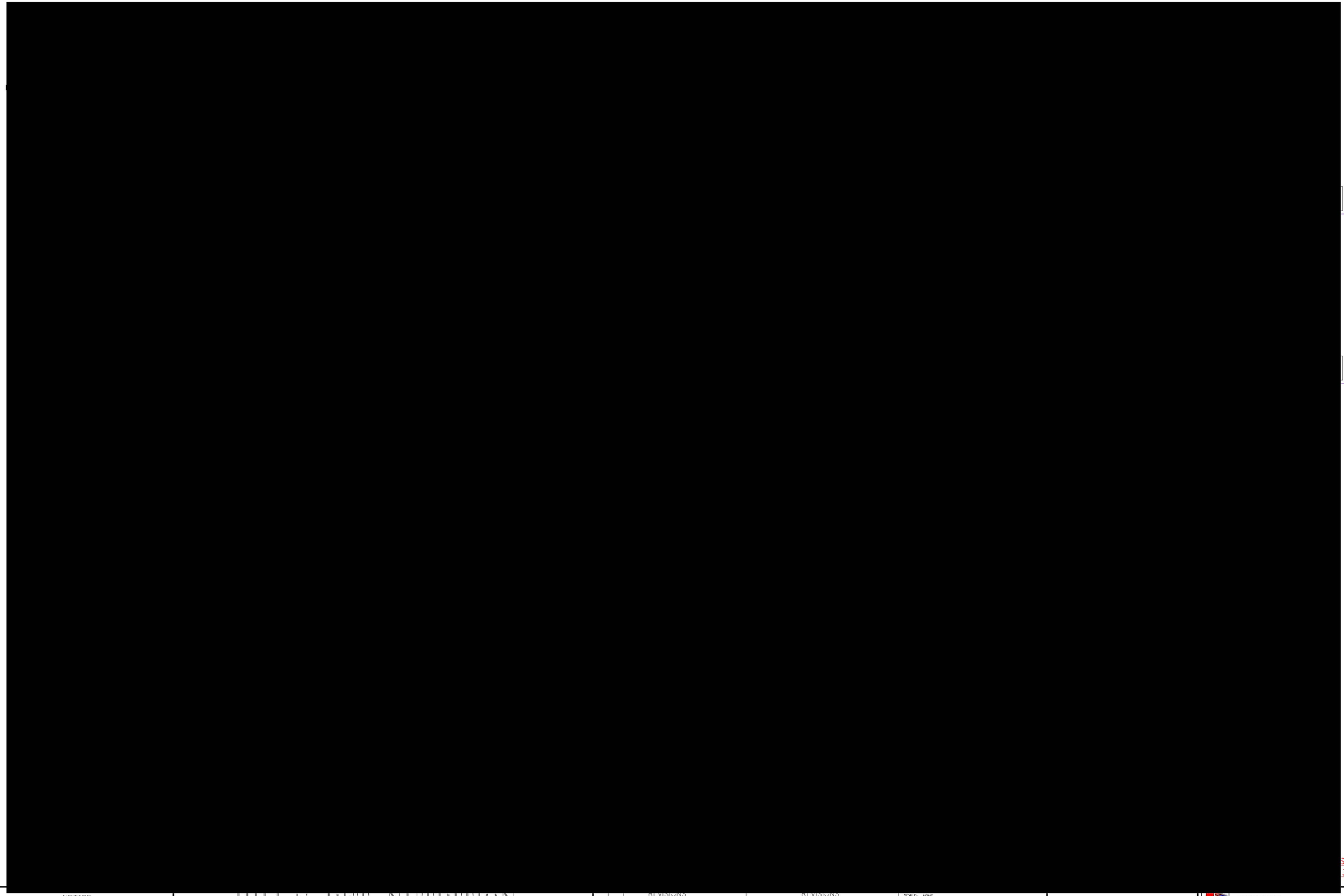
RICHMOND PFD
ENROBING PANEL SYSTEMS

Hill's

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER
D-D125



NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 01-30-08
APPROVED:

RICHMOND PFD
LIQUID COLOR SYSTEM

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D126

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 01-23-09
APPROVED:

RICHMOND PFD
MICRO INGEDIENT HANDLING SYSTEM
CAROUSELS A & B

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D127

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 01-23-09
APPROVED:

TITLE:
RICHMOND PFD
MICRO INGEDIENT HANDLING
SYSTEM
CAROUSELS C & D

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D128

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 01-23-09
APPROVED:

TITLE:
RICHMOND PFD
MICRO INGEDIENT HANDLING
SYSTEM
CAROUSELS E & F

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D129

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

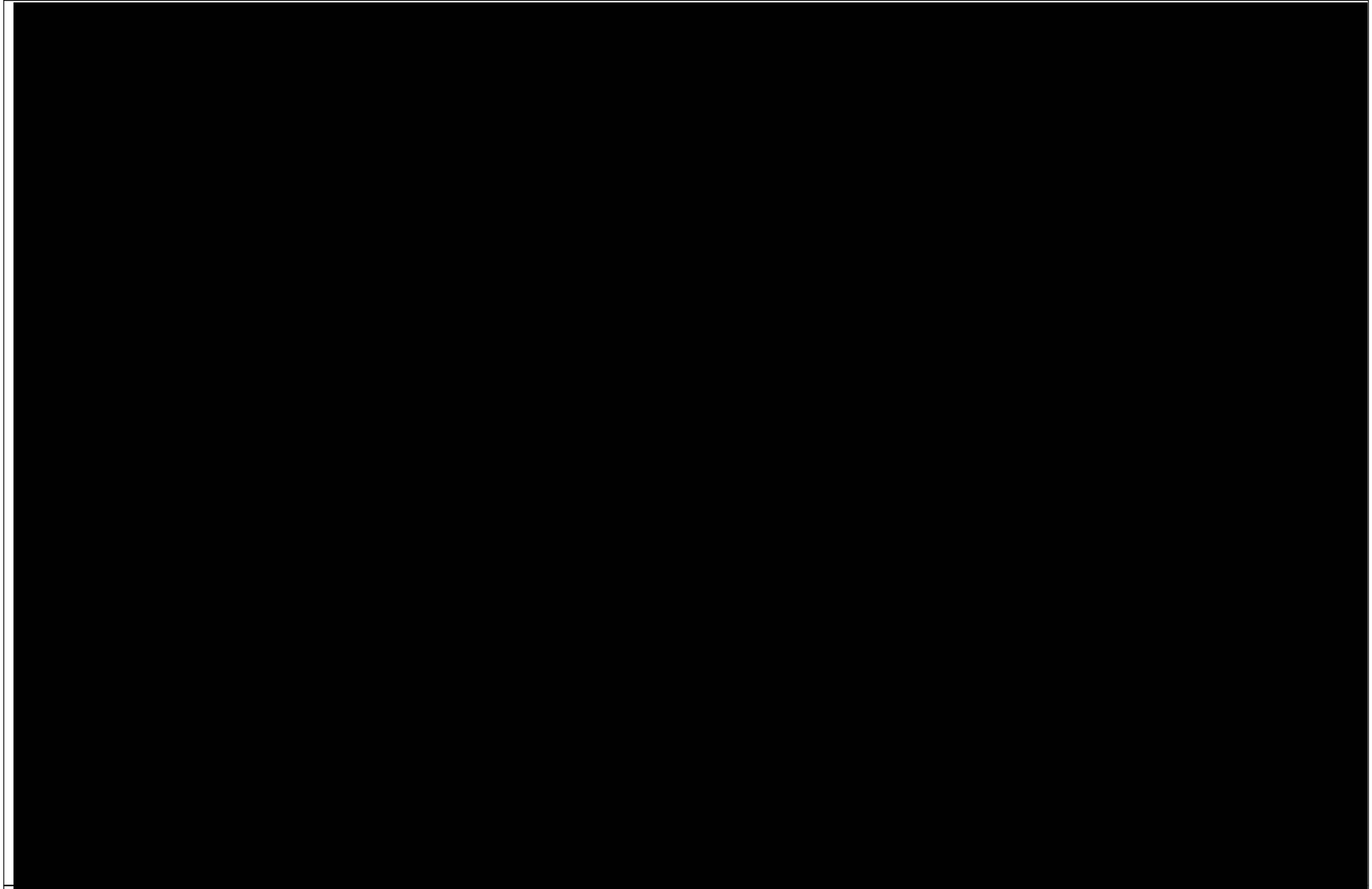
DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 01-23-09
APPROVED:

RICHMOND PFD
MICRO INGEDIENT HANDLING SYSTEM
CAROUSEL G & SURGE BINS

Hill's
RICHMOND ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D130



HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 01-23-09
APPROVED:

RICHMOND PFD
DRY TOPICALS

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D131

[redacted]

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 09-02-09
APPROVED:

RICHMOND PFD
VITAMIN E SYSTEM

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D132

[redacted]

NOTICE

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 02-17-11
APPROVED:

TITLE:
RICHMOND PFD
PACKAGING
SURGE BINS

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D133

FLEX
L1-FL

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

REVISIONS			REVISIONS		
NO.	DATE	REV.	NO.	DATE	REV.

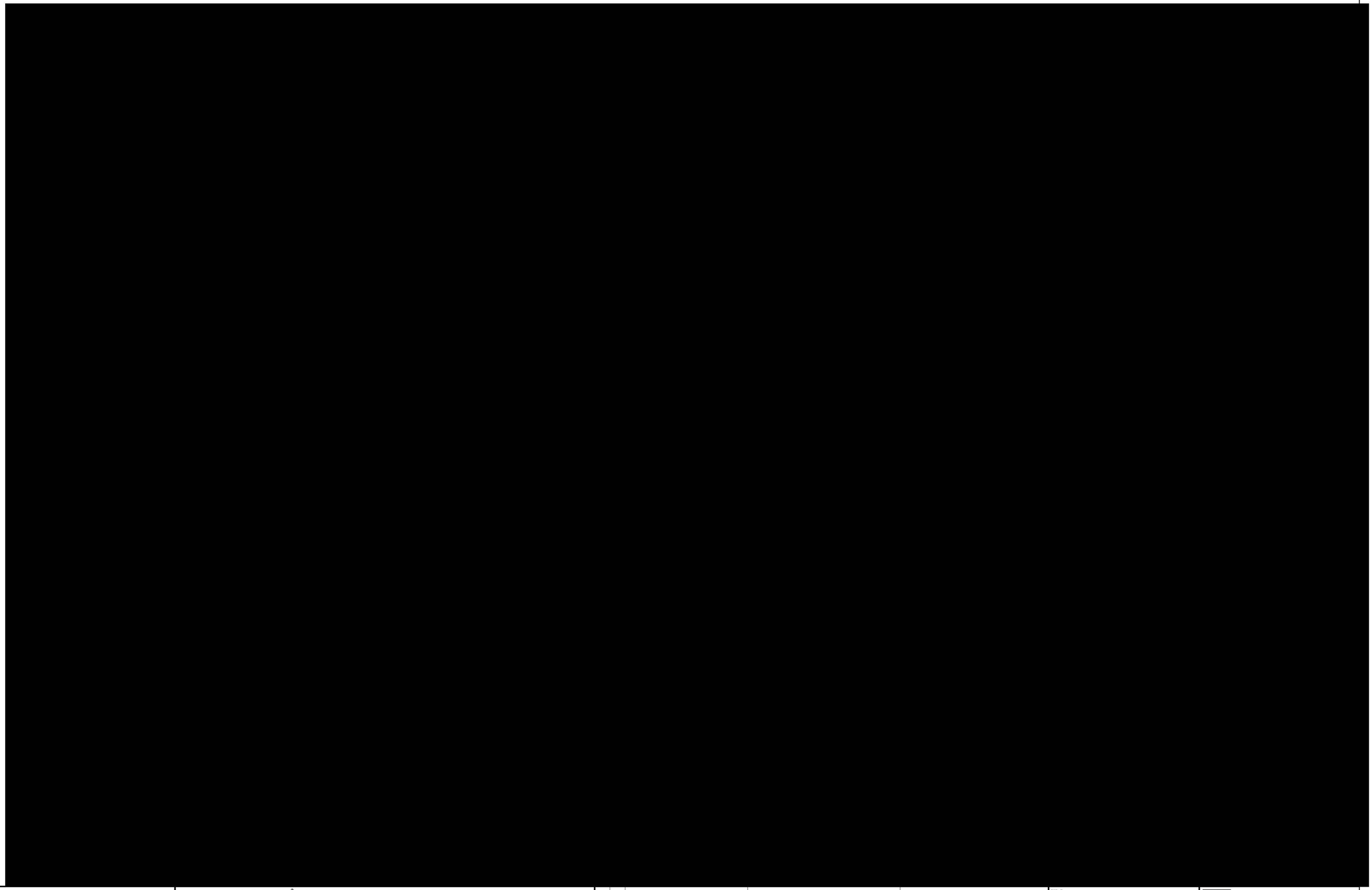
SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: WLB
DATE: 06-01-11
APPROVED:

RICHMOND PFD
LACTIC ACID SYSTEM

Hill's RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D134



HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS & HUSTOPECE, CZECH REPUBLIC.

		REVISIONS			REVISIONS
NO.	DATE	REV.	NO.	DATE	REV.

SCALE: NONE
DEPT.
PLANT: RICHMOND
DRAWN: WLM
DATE: 09/01/15
APPROVED:

TITLE:
RICHMOND PFD
CHICKEN FAT (CFT) SYSTEM

RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D135

HILL'S PET NUTRITION

MANUFACTURING PLANTS IN:
TOPEKA & EMPORIA, KS, BOWLING GREEN, KY, RICHMOND, IN, ETTEN-LUER, THE NETHERLANDS
& HUSTOPECE, CZECH REPUBLIC.

NO.	DATE	REV.	NO.	DATE	REV.

DEPT: ENGINEERING
PLANT: RICHMOND
DRAWN: SRT
DATE: 9-17-2021
APPROVED: RYON SEXTON

RICHMOND PFD
Coconut Oil System

Hill's
RICHMOND
ENGINEERING DEPARTMENT

CAPITAL PROJ. NUMBER:

DRAWING NUMBER:
D-D136

OAQ GENERAL SOURCE DATA APPLICATION
GSD-04: Stack / Vent Information

State Form 51606 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

- The purpose of this form is to provide basic information about each stack or vent that has the potential to emit air pollutants. If you do not provide enough information to adequately describe each process vent and/or stack, the application process may be stopped. This form is required for all air permit applications.
- Detailed instructions for this form are available online on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Stack / Vent Information

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

1. Stack / Vent ID	2. Type (V H W O)	3. Shape (C R O)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks / Vents (B P O)
V-L4-PS	V	C	0.33	72.50			
V-L3-PS	V	C	0.33	72.50			
V-L3, L4-S	V	C	0.67	71.50			
V-L1, L2-S	V	C	0.67	71.50			
V-L3-C	V	C	3.00	67.75			
V-L3-D	V	C	3.50	68.75			
V-L3-MAC	V	C	2.00	67.50			
V-L4-MAC	V	C	2.00	67.50			
Gas Exhaust Vent	V	C	0.33				
V-L1-PS	V	C	0.33	72.50			
V-L2-PS	V	C	0.33	72.50			
V-L1-MAC	V	C	1.00	76.50			
V-L2-MAC	V	C	1.00	76.50			
V-L1-C	V	C	4.32	68.67			
V-L1-D	V	C	4.32	68.67			

OAQ GENERAL SOURCE DATA APPLICATION
GSD-04: Stack / Vent Information

State Form 51606 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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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 provide basic information about each stack or vent that has the potential to emit air pollutants. If you do not provide enough information to adequately describe each process vent and/or stack, the application process may be stopped. This form is required for all air permit applications.
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Stack / Vent Information

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

1. Stack / Vent ID	2. Type (V H W O)	3. Shape (C R O)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks / Vents (B P O)
V-L2-C	V	C	4.03	68.67			
V-L2-D	V	C	4.03	67.92			
V-B1,B2	V	C	2.12	49.00			
V-B3	V	C	2.12	49.00			
V-EMICE-FP	V	C	0.42	8.00			
V-EMICE-FT	V	C	0.33	18.00			

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
GR			Grain Receiving			225000.00 tons/yr	Various
FS			Feed Shipping			225000.00 tons/yr	Various
HM			Hammermill			225000.00 tons/yr	Internal Venting
KC			Kibble Cooler			225000.00 tons/yr	V-L3-C, V-L1-C, V-L2-C
GC			Grain Cleaning (Screening)			225000.00 tons/yr	Various
SB			Storing Bin Venting			900000.00 tons/yr	Various
GD			Grain Drying			225000.00 tons/yr	V-L3-D, V-L1-D, V-L2-D
B1			Boiler 1			30.48 MMBtu /hr	V-B1,B2
B2			Boiler 2			30.48 MMBtu /hr	V-B1,B2
B3			Boiler 3			3.13 MMBtu /hr	V-B3
PD1			Product Dryer 1			11.40 MMBtu /hr	V-L1-D

PD2			Product Dryer 2			11.40 MMBtu /hr	V-L2-D
PD3			Product Dryer 3			14.00 MMBtu /hr	V-L3-D
PD4			Product Dryer 4			14.00 MMBtu /hr	V-L3-D
Various			See HVAC Unit Emissions Summary			52.11 MMBtu /hr	total from all HVAC Units

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

State Form 51612 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

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

Part A: Particulate Matter Emissions

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

Emissions Point		**Potential To Emit** (tons per year)						
1. ID	**2. Description**	**3. PM**	**4. PM-10**	**5. PM-2.5**	**6. TSP**	**7. Fugitive Dust**	**8. Fugitive PM**	**9. HAP PM**
GR	Grain Receiving	1.91	0.28	0.28	1.91	0.00	0.00	0.00
FS	Feed Shipping	0.37	0.09	0.09	0.37	0.00	0.00	0.00
HM	Hammermill	86.34	43.17	43.17	86.34	0.00	0.00	0.00
KC	Kibble Cooler	185.63	92.81	92.81	185.63	0.00	0.00	0.00
GC	Grain Cleaning (Screening)	42.19	10.69	1.80	42.19	0.00	0.00	0.00
SB	Storage Bin Venting	11.25	2.84	0.50	11.25	0.00	0.00	0.00
GD	Grain Drying	337.50	84.38	14.63	337.50	0.00	0.00	0.00
Various	HVAC Units - See Attachments for HVAC Unit Emissions Summary	1.70	1.70	1.70	1.70	0.00	0.00	0.00

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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
GR	☐ No Control ☐ Dust Suppression ☒ Other: Dust Collector	Filter Cartridge Dust Collector	☐ Yes ☒ No Date Submitted: _____
FS	☐ No Control ☐ Dust Suppression ☒ Other: Baghouses	Baghouses for bagging/loadout operation	☐ Yes ☒ No Date Submitted: _____
HM	☐ No Control ☐ Dust Suppression ☒ Other: Baghousese	Baghouses for hammermills	☐ Yes ☒ No Date Submitted: _____
KC	☐ No Control ☐ Dust Suppression ☒ Other: Cyclone	Medium Efficiency Cyclones	☐ Yes ☒ No Date Submitted: _____
GC	☐ No Control ☐ Dust Suppression ☒ Other: Dust Collector	Filter Cartridge Dust Collector	☐ Yes ☒ No Date Submitted: _____
SB	☐ No Control ☐ Dust Suppression ☒ Other: Fabric Filter	Fabric Bin Vent Filters	☐ Yes ☒ No Date Submitted: _____
GD	☐ No Control ☐ Dust Suppression ☒ Other: _____	Filter Cartridge Dust Collector	☐ Yes ☒ No Date Submitted: _____
	☐ No Control ☐ Dust Suppression ☐ Other: _____		☐ Yes ☐ No Date Submitted: _____

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

PART C: Fugitive Dust *(if applicable)*

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

14. Dust Control Plans: *Check all that apply.*			**15. Control Measures:**
☒ Conveying:	☐ Wet	☒ Dry	All outdoor conveyance areas are enclosed conveyors (e.g. screw conveyors or pneumatic conveyors). Indoor conveyors are all vented to through fabric filters or baghouses/cylcones depending upon dust loading).
☐ Stock Piles:	☐ Open	☐ Covered	
☐ Unpaved Roads: *Watered?*	☐ Yes	☐ No	
☐ Other *(specify)*:			
☐ Other *(specify)*:			
☐ Other *(specify)*:			

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

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

16. Average Silt Content of Unpaved Roads:	-0.00%

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

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

State Form 51602 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

- The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Part A: Unit Emissions Summary

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

1. Unit ID	2. Stack / Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
B1, B2	B1, B2	PM, PM10, PM2.5		0.26		1.99
B1, B2	B1, B2	NOx		3.40		13.10
B1, B2	B1, B2	SO2		0.02		0.16
B1, B2	B1, B2	CO		2.86		22.00
B1, B2	B1, B2	VOC		0.19		1.44
B3	B3	PM, PM10, PM2.5		0.01		0.10
B3	B3	NOx		0.17		0.67
B3	B3	SO2		0.00		0.01
B3	B3	CO		0.15		1.13
B3	B3	VOC		0.01		0.07
D3-DR-101, D3-DR-201	PD1, PD2	PM, PM10, PM2.5		0.10		1.01
D3-DR-101, D3-DR-201	PD1, PD2	NOx		1.27		8.39
D3-DR-101, D3-DR-201	PD1, PD2	SO2		0.01		0.05

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D3-DR-101, D3-DR-201	PD1, PD2	CO		1.07		1.71
D3-DR-101, D3-DR-201	PD1, PD2	VOC		0.07		0.45

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

State Form 51602 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
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Toll Free: 1-800-451-6027 x30178 (within Indiana)
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NOTES:

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

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

1. Unit ID	2. Stack / Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
D3-DR-300, D3-DR-400	PD3, PD4	PM, PM10, PM2.5		0.12		1.24
D3-DR-300, D3-DR-400	PD3, PD4	NOx		1.56		10.30
D3-DR-300, D3-DR-400	PD3, PD4	SO2		0.01		0.06
D3-DR-300, D3-DR-400	PD3, PD4	CO		1.31		2.06
D3-DR-300, D3-DR-400	PD3, PD4	VOC		0.09		0.55
Grain Receiving	Multiple	PM		0.02		1.91
Grain Receiving	Multiple	PM10		0.02		0.28
Grain Receiving	Multiple	PM2.5		0.02		0.28
Feed Shipping	Multiple	PM		0.01		0.37

Continued on Next Page

Feed Shipping	Multiple	PM10		0.01		0.09
Feed Shipping	Multiple	PM2.5		0.01		0.09
Hammermill	Multiple	PM		3.02		86.34
Hammermill	Multiple	PM10		3.02		43.17
Hammermill	Multiple	PM2.5		3.02		43.17
		CONTINUED BELOW				

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

State Form 51602 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
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NOTES:

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- Detailed instructions for this form are available on the Air Permit Application Forms website.
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Part A: Unit Emissions Summary

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

1. Unit ID	2. Stack / Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
Kibble Coolers	Multiple	PM		37.13		185.63
Kibble Coolers	Multiple	PM10		37.13		92.81
Kibble Coolers	Multiple	PM2.5		37.13		92.81
Grain Cleaning (internal vibrating)	Multiple	PM		0.75		42.19
Grain Cleaning (internal vibrating)	Multiple	PM10		0.75		10.69
Grain Cleaning (internal vibrating)	Multiple	PM2.5		0.13		1.80
Storage Bins (vent)	Multiple	PM		0.15		11.25
Storage Bins (vent)	Multiple	PM10		0.15		2.84
Storage Bins (vent)	Multiple	PM2.5		0.03		0.50

Continued on Next Page

Kibble Dryers	Multiple	PM		5.91		337.50
Kibble Dryers	Multiple	PM10		5.91		84.38
Kibble Dryers	Multiple	PM2.5		1.02		14.63
Various	HVAC Units	See Attached Calculations				
		HVAC Units Emissions Included in totals included in Part B				

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)		7.82		60.24
Lead (Pb)		0.00		0.00
Nitrogen Oxides (NO_X)		9.32		71.71
Particulate Matter (PM)		47.68		670.64
Particulate Matter less than 10μm (PM_{10})		47.68		239.70
Particulate Matter less than 2.5μm ($PM_{2.5}$)		42.06		158.73
Sulfur Dioxide (SO_2)		0.06		0.43
Volatile Organic Compounds (VOC)		0.51		3.94
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)*:				

OAQ GENERAL SOURCE DATA APPLICATION
GSD-08: Hazardous Air Pollutant Emissions Summary

State Form 51604 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

- The purpose of this form is to provide the actual and potential emissions of each hazardous air pollutant emitted from the source. This form is required for all air permit applications.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Part A: Unit Emissions Summary

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

1. Unit ID	2. Stack / Vent ID	3. Hazardous Air Pollutant	4. CAS Number	5. Actual Emissions		6. Potential To Emit	
				Standard Units	Tons Per Year	Standard Units	Tons Per Year
See Attached HAP Emission Summary		All HAPs emitted by facility are from NG combustion					

Continued on Next Page

HAP Emissions Summary

Pollutant	Emission Factor (lbs/cu ft) by pollutant	Potential Emissions (ton/yr) (b * d * e) / 2000	Actual Emissions (tons/yr) (c * e) / 2000	Potential		Actual	
Hazardous air pollutants	Source: EPA AP-42 Chapter 1.4			From Process	From HVAC	From Process	From HVAC
Benzene	0.0000000021	**0.0015**	**0.0002**	0.00	0.00	0.00	0.00
Formaldehyde	0.000000075	**0.0538**	**0.0070**	0.04	0.02	0.00	0.00
Hexane	0.0000018	**1.2908**	**0.1677**	0.89	0.40	0.12	0.05
Naphthalene	0.00000000061	**0.0004**	**0.0001**	0.00	0.00	0.00	0.00
Toluene	0.0000000034	**0.0024**	**0.0003**	0.00	0.00	0.00	0.00
Arsenic	0.00000000020	**0.0001**	**0.0000**	0.00	0.00	0.00	0.00
Beryllium	0.000000000012	**0.0000**	**0.0000**	0.00	0.00	0.00	0.00
Cadmium	0.0000000011	**0.0008**	**0.0001**	0.00	0.00	0.00	0.00
Chromium	0.0000000014	**0.0010**	**0.0001**	0.00	0.00	0.00	0.00
Cobalt	0.000000000084	**0.0001**	**0.0000**	0.00	0.00	0.00	0.00
Manganese	0.00000000038	**0.0003**	**0.0000**	0.00	0.00	0.00	0.00
Mercury	0.00000000026	**0.0002**	**0.0000**	0.00	0.00	0.00	0.00
Nickel	0.0000000021	**0.0015**	**0.0002**	0.00	0.00	0.00	0.00
Selenium	0.000000000024	**0.0000**	**0.0000**	0.00	0.00	0.00	0.00
		1.3530	**0.1757**	**0.93**	**0.42**	**0.12**	**0.05**

HAP Emissions Summary

Pollutant	Unit ID	B1	B2	B3	PD1	PD2	PD3	PD4	ACU-1	ACU-2	ACU-3	ACU-4	ACU-5	ACU-12	ACU-14	GMU-8	GMU-9	GMU-10	GMU-12	GMU-13	GMU-14	GMU-15	GMU-16	GMU-19	GMU-20	GMU-25	GMU-26	GMU-27	GMU-28	GMU-40	GMU-41	GMU-42	GMU-92
	Rating (MMBtu/hr)	30.48	30.48	3.13	11.4	11.4	14	14	0.525	0.525	0.81	0.35	0.35	0.25	0.2	1.9	1.9	6.045	1.519	1.519	1.519	1.519	1.519	4.178	4.178	0.98	2.2	1.2	2.1236	4.4	4.4	4.4	3.6
Hazardous air pollutants		Potential Emissions																															
Benzene		3.57E-05	3.57E-05	3.67E-06	1.34E-05	1.34E-05	1.64E-05	1.64E-05	6.15E-07	6.15E-07	9.49E-07	4.10E-07	4.10E-07	2.93E-07	2.34E-07	2.23E-06	2.23E-06	7.08E-06	1.78E-06	1.78E-06	1.78E-06	1.78E-06	1.78E-06	4.89E-06	4.89E-06	1.15E-06	2.58E-06	1.41E-06	2.49E-06	5.15E-06	5.15E-06	5.15E-06	4.22E-06
Formaldehyde		1.28E-03	1.28E-03	1.31E-04	4.77E-04	4.77E-04	5.86E-04	5.86E-04	2.20E-05	2.20E-05	3.39E-05	1.46E-05	1.46E-05	1.05E-05	8.37E-06	7.95E-05	7.95E-05	2.53E-04	6.35E-05	6.35E-05	6.35E-05	6.35E-05	6.35E-05	1.75E-04	1.75E-04	4.10E-05	9.20E-05	5.02E-05	8.88E-05	1.84E-04	1.84E-04	1.84E-04	1.51E-04
Hexane		3.06E-02	3.06E-02	3.14E-03	1.14E-02	1.14E-02	1.41E-02	1.41E-02	5.27E-04	5.27E-04	8.13E-04	3.51E-04	3.51E-04	2.51E-04	2.01E-04	1.91E-03	1.91E-03	6.07E-03	1.53E-03	1.53E-03	1.53E-03	1.53E-03	1.53E-03	4.19E-03	4.19E-03	9.84E-04	2.21E-03	1.20E-03	2.13E-03	4.42E-03	4.42E-03	4.42E-03	3.61E-03
Naphthalene		1.04E-05	1.04E-05	1.06E-06	3.88E-06	3.88E-06	4.76E-06	4.76E-06	1.79E-07	1.79E-07	2.76E-07	1.19E-07	1.19E-07	8.51E-08	6.80E-08	6.46E-07	6.46E-07	2.06E-06	5.17E-07	5.17E-07	5.17E-07	5.17E-07	5.17E-07	1.42E-06	1.42E-06	3.33E-07	7.49E-07	4.08E-07	7.23E-07	1.50E-06	1.50E-06	1.50E-06	1.22E-06
Toluene		5.78E-05	5.78E-05	5.94E-06	2.16E-05	2.16E-05	2.66E-05	2.66E-05	9.96E-07	9.96E-07	1.54E-06	6.64E-07	6.64E-07	4.74E-07	3.79E-07	3.60E-06	3.60E-06	1.15E-05	2.88E-06	2.88E-06	2.88E-06	2.88E-06	2.88E-06	7.92E-06	7.92E-06	1.86E-06	4.17E-06	2.28E-06	4.03E-06	8.34E-06	8.34E-06	8.34E-06	6.83E-06
Arsenic		3.40E-06	3.40E-06	3.49E-07	1.27E-06	1.27E-06	1.56E-06	1.56E-06	5.86E-08	5.86E-08	9.04E-08	3.90E-08	3.90E-08	2.79E-08	2.23E-08	2.12E-07	2.12E-07	6.74E-07	1.69E-07	1.69E-07	1.69E-07	1.69E-07	1.69E-07	4.66E-07	4.66E-07	1.09E-07	2.45E-07	1.34E-07	2.37E-07	4.91E-07	4.91E-07	4.91E-07	4.02E-07
Beryllium		2.04E-07	2.04E-07	2.10E-08	7.63E-08	7.63E-08	9.37E-08	9.37E-08	3.51E-09	3.51E-09	5.42E-09	2.34E-09	2.34E-09	1.67E-09	1.34E-09	1.27E-08	1.27E-08	4.05E-08	1.02E-08	1.02E-08	1.02E-08	1.02E-08	1.02E-08	2.80E-08	2.80E-08	6.56E-09	1.47E-08	8.03E-09	1.42E-08	2.95E-08	2.95E-08	2.95E-08	2.41E-08
Cadmium		1.87E-05	1.87E-05	1.92E-06	6.99E-06	6.99E-06	8.59E-06	8.59E-06	3.22E-07	3.22E-07	4.97E-07	2.15E-07	2.15E-07	1.53E-07	1.23E-07	1.17E-06	1.17E-06	3.71E-06	9.32E-07	9.32E-07	9.32E-07	9.32E-07	9.32E-07	2.56E-06	2.56E-06	6.01E-07	1.35E-06	7.36E-07	1.30E-06	2.70E-06	2.70E-06	2.70E-06	2.21E-06
Chromium		2.38E-05	2.38E-05	2.44E-06	8.90E-06	8.90E-06	1.09E-05	1.09E-05	4.10E-07	4.10E-07	6.33E-07	2.73E-07	2.73E-07	1.95E-07	1.56E-07	1.48E-06	1.48E-06	4.72E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	3.26E-06	3.26E-06	7.65E-07	1.72E-06	9.37E-07	1.66E-06	3.44E-06	3.44E-06	3.44E-06	2.81E-06
Cobalt		1.43E-06	1.43E-06	1.47E-07	5.34E-07	5.34E-07	6.56E-07	6.56E-07	2.46E-08	2.46E-08	3.80E-08	1.64E-08	1.64E-08	1.17E-08	9.37E-09	8.90E-08	8.90E-08	2.83E-07	7.12E-08	7.12E-08	7.12E-08	7.12E-08	7.12E-08	1.96E-07	1.96E-07	4.59E-08	1.03E-07	5.62E-08	9.95E-08	2.06E-07	2.06E-07	2.06E-07	1.69E-07
Manganese		6.46E-06	6.46E-06	6.63E-07	2.42E-06	2.42E-06	2.97E-06	2.97E-06	1.11E-07	1.11E-07	1.72E-07	7.42E-08	7.42E-08	5.30E-08	4.24E-08	4.03E-07	4.03E-07	1.28E-06	3.22E-07	3.22E-07	3.22E-07	3.22E-07	3.22E-07	8.86E-07	8.86E-07	2.08E-07	4.66E-07	2.54E-07	4.50E-07	9.33E-07	9.33E-07	9.33E-07	7.63E-07
Mercury		4.42E-06	4.42E-06	4.54E-07	1.65E-06	1.65E-06	2.03E-06	2.03E-06	7.61E-08	7.61E-08	1.17E-07	5.08E-08	5.08E-08	3.63E-08	2.90E-08	2.76E-07	2.76E-07	8.77E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07	6.06E-07	6.06E-07	1.42E-07	3.19E-07	1.74E-07	3.08E-07	6.38E-07	6.38E-07	6.38E-07	5.22E-07
Nickel		3.57E-05	3.57E-05	3.67E-06	1.34E-05	1.34E-05	1.64E-05	1.64E-05	6.15E-07	6.15E-07	9.49E-07	4.10E-07	4.10E-07	2.93E-07	2.34E-07	2.23E-06	2.23E-06	7.08E-06	1.78E-06	1.78E-06	1.78E-06	1.78E-06	1.78E-06	4.89E-06	4.89E-06	1.15E-06	2.58E-06	1.41E-06	2.49E-06	5.15E-06	5.15E-06	5.15E-06	4.22E-06
Selenium		4.08E-07	4.08E-07	4.19E-08	1.53E-07	1.53E-07	1.87E-07	1.87E-07	7.03E-09	7.03E-09	1.08E-08	4.69E-09	4.69E-09	3.35E-09	2.68E-09	2.54E-08	2.54E-08	8.09E-08	2.03E-08	2.03E-08	2.03E-08	2.03E-08	2.03E-08	5.59E-08	5.59E-08	1.31E-08	2.95E-08	1.61E-08	2.84E-08	5.89E-08	5.89E-08	5.89E-08	4.82E-08
		3.21E-02	3.21E-02	3.29E-03	1.20E-02	1.20E-02	1.47E-02	1.47E-02	5.52E-04	5.52E-04	8.52E-04	3.68E-04	3.68E-04	2.63E-04	2.10E-04	2.00E-03	2.00E-03	6.36E-03	1.60E-03	1.60E-03	1.60E-03	1.60E-03	1.60E-03	4.40E-03	4.40E-03	1.03E-03	2.32E-03	1.26E-03	2.23E-03	4.63E-03	4.63E-03	4.63E-03	3.79E-03

HAP Emissions Summary

Pollutant	Unit ID	B1	B2	B3	PD1	PD2	PD3	PD4	ACU-1	ACU-2	ACU-3	ACU-4	ACU-5	ACU-12	ACU-14	GMU-8	GMU-9	GMU-10	GMU-12	GMU-13	GMU-14	GMU-15	GMU-16	GMU-19	GMU-20	GMU-25	GMU-26	GMU-27	GMU-28	GMU-40	GMU-41	GMU-42	GMU-92
	Rating (MMBtu/hr)	30.48	30.48	3.13	11.4	11.4	14	14	0.525	0.525	0.81	0.35	0.35	0.25	0.2	1.9	1.9	6.045	1.519	1.519	1.519	1.519	1.519	4.178	4.178	0.98	2.2	1.2	2.1236	4.4	4.4	4.4	3.6
Hazardous air pollutants		Actual Emissions																															
Benzene		2.75E-04	2.75E-04	2.82E-05	1.03E-04	1.03E-04	1.26E-04	1.26E-04	4.73E-06	4.73E-06	7.30E-06	3.16E-06	3.16E-06	2.25E-06	1.80E-06	1.71E-05	1.71E-05	5.45E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	3.77E-05	3.77E-05	8.84E-06	1.98E-05	1.08E-05	1.91E-05	3.97E-05	3.97E-05	3.97E-05	3.25E-05
Formaldehyde		9.82E-03	9.82E-03	1.01E-03	3.67E-03	3.67E-03	4.51E-03	4.51E-03	1.69E-04	1.69E-04	2.61E-04	1.13E-04	1.13E-04	8.05E-05	6.44E-05	6.12E-04	6.12E-04	1.95E-03	4.89E-04	4.89E-04	4.89E-04	4.89E-04	4.89E-04	1.35E-03	1.35E-03	3.16E-04	7.09E-04	3.86E-04	6.84E-04	1.42E-03	1.42E-03	1.42E-03	1.16E-03
Hexane		2.36E-01	2.36E-01	2.42E-02	8.81E-02	8.81E-02	1.08E-01	1.08E-01	4.06E-03	4.06E-03	6.26E-03	2.71E-03	2.71E-03	1.93E-03	1.55E-03	1.47E-02	1.47E-02	4.67E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	3.23E-02	3.23E-02	7.57E-03	1.70E-02	9.28E-03	1.64E-02	3.40E-02	3.40E-02	3.40E-02	2.78E-02
Naphthalene		7.98E-05	7.98E-05	8.20E-06	2.99E-05	2.99E-05	3.67E-05	3.67E-05	1.38E-06	1.38E-06	2.12E-06	9.17E-07	9.17E-07	6.55E-07	5.24E-07	4.98E-06	4.98E-06	1.58E-05	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	1.09E-05	1.09E-05	2.57E-06	5.76E-06	3.14E-06	5.56E-06	1.15E-05	1.15E-05	1.15E-05	9.43E-06
Toluene		4.45E-04	4.45E-04	4.57E-05	1.66E-04	1.66E-04	2.04E-04	2.04E-04	7.67E-06	7.67E-06	1.18E-05	5.11E-06	5.11E-06	3.65E-06	2.92E-06	2.77E-05	2.77E-05	8.83E-05	2.22E-05	2.22E-05	2.22E-05	2.22E-05	2.22E-05	6.10E-05	6.10E-05	1.43E-05	3.21E-05	1.75E-05	3.10E-05	6.42E-05	6.42E-05	6.42E-05	5.26E-05
Arsenic		2.62E-05	2.62E-05	2.69E-06	9.79E-06	9.79E-06	1.20E-05	1.20E-05	4.51E-07	4.51E-07	6.96E-07	3.01E-07	3.01E-07	2.15E-07	1.72E-07	1.63E-06	1.63E-06	5.19E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	3.59E-06	3.59E-06	8.42E-07	1.89E-06	1.03E-06	1.82E-06	3.78E-06	3.78E-06	3.78E-06	3.09E-06
Beryllium		1.57E-06	1.57E-06	1.61E-07	5.87E-07	5.87E-07	7.21E-07	7.21E-07	2.71E-08	2.71E-08	4.17E-08	1.80E-08	1.80E-08	1.29E-08	1.03E-08	9.79E-08	9.79E-08	3.11E-07	7.83E-08	7.83E-08	7.83E-08	7.83E-08	7.83E-08	2.15E-07	2.15E-07	5.05E-08	1.13E-07	6.18E-08	1.09E-07	2.27E-07	2.27E-07	2.27E-07	1.86E-07
Cadmium		1.44E-04	1.44E-04	1.48E-05	5.38E-05	5.38E-05	6.61E-05	6.61E-05	2.48E-06	2.48E-06	3.83E-06	1.65E-06	1.65E-06	1.18E-06	9.45E-07	8.97E-06	8.97E-06	2.86E-05	7.18E-06	7.18E-06	7.18E-06	7.18E-06	7.18E-06	1.97E-05	1.97E-05	4.63E-06	1.04E-05	5.67E-06	1.00E-05	2.08E-05	2.08E-05	2.08E-05	1.70E-05
Chromium		1.83E-04	1.83E-04	1.88E-05	6.85E-05	6.85E-05	8.42E-05	8.42E-05	3.16E-06	3.16E-06	4.87E-06	2.10E-06	2.10E-06	1.50E-06	1.20E-06	1.14E-05	1.14E-05	3.63E-05	9.13E-06	9.13E-06	9.13E-06	9.13E-06	9.13E-06	2.51E-05	2.51E-05	5.89E-06	1.32E-05	7.21E-06	1.28E-05	2.65E-05	2.65E-05	2.65E-05	2.16E-05
Cobalt		1.10E-05	1.10E-05	1.13E-06	4.11E-06	4.11E-06	5.05E-06	5.05E-06	1.89E-07	1.89E-07	2.92E-07	1.26E-07	1.26E-07	9.02E-08	7.21E-08	6.85E-07	6.85E-07	2.18E-06	5.48E-07	5.48E-07	5.48E-07	5.48E-07	5.48E-07	1.51E-06	1.51E-06	3.53E-07	7.94E-07	4.33E-07	7.66E-07	1.59E-06	1.59E-06	1.59E-06	1.30E-06
Manganese		4.97E-05	4.97E-05	5.11E-06	1.86E-05	1.86E-05	2.28E-05	2.28E-05	8.57E-07	8.57E-07	1.32E-06	5.71E-07	5.71E-07	4.08E-07	3.26E-07	3.10E-06	3.10E-06	9.86E-06	2.48E-06	2.48E-06	2.48E-06	2.48E-06	2.48E-06	6.82E-06	6.82E-06	1.60E-06	3.59E-06	1.96E-06	3.47E-06	7.18E-06	7.18E-06	7.18E-06	5.87E-06
Mercury		3.40E-05	3.40E-05	3.49E-06	1.27E-05	1.27E-05	1.56E-05	1.56E-05	5.86E-07	5.86E-07	9.04E-07	3.91E-07	3.91E-07	2.79E-07	2.23E-07	2.12E-06	2.12E-06	6.75E-06	1.70E-06	1.70E-06	1.70E-06	1.70E-06	1.70E-06	4.66E-06	4.66E-06	1.09E-06	2.46E-06	1.34E-06	2.37E-06	4.91E-06	4.91E-06	4.91E-06	4.02E-06
Nickel		2.75E-04	2.75E-04	2.82E-05	1.03E-04	1.03E-04	1.26E-04	1.26E-04	4.73E-06	4.73E-06	7.30E-06	3.16E-06	3.16E-06	2.25E-06	1.80E-06	1.71E-05	1.71E-05	5.45E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	3.77E-05	3.77E-05	8.84E-06	1.98E-05	1.08E-05	1.91E-05	3.97E-05	3.97E-05	3.97E-05	3.25E-05
Selenium		3.14E-06	3.14E-06	3.23E-07	1.17E-06	1.17E-06	1.44E-06	1.44E-06	5.41E-08	5.41E-08	8.35E-08	3.61E-08	3.61E-08	2.58E-08	2.06E-08	1.96E-07	1.96E-07	6.23E-07	1.57E-07	1.57E-07	1.57E-07	1.57E-07	1.57E-07	4.31E-07	4.31E-07	1.01E-07	2.27E-07	1.24E-07	2.19E-07	4.53E-07	4.53E-07	4.53E-07	3.71E-07
		2.47E-01	2.47E-01	2.54E-02	9.24E-02	9.24E-02	1.13E-01	1.13E-01	4.25E-03	4.25E-03	6.56E-03	2.84E-03	2.84E-03	2.03E-03	1.62E-03	1.54E-02	1.54E-02	4.90E-02	1.23E-02	1.23E-02	1.23E-02	1.23E-02	1.23E-02	3.38E-02	3.38E-02	7.94E-03	1.78E-02	9.72E-03	1.72E-02	3.56E-02	3.56E-02	3.56E-02	2.92E-02

Part B: Pollutant Emissions Summary

Part B provides the total actual and potential emissions of each hazardous air 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.

7. Hazardous Air Pollutant	8. CAS Number	9. Actual Emissions		10. Potential To Emit	
		Standard Units	Tons Per Year	Standard Units	Tons Per Year

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

Part C summarizes the sources of fugitive HAP emissions at the source and estimates HAP 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.

11. Fugitive Emissions Source	12. Hazardous Air Pollutant	13. Emission Factor (lb/hr)	14. Number Leaking	15. 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)*:					

OAQ GENERAL SOURCE DATA APPLICATION
GSD-13: Affidavit of Applicability

State Form 51603 (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 GSD-13 is to certify that the requirement to notify adjacent landowners and occupants is 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 Applicability

Complete this form to certify that the requirement to notify adjacent landowners and occupants pursuant to Indiana Code (IC) 13-15-8 is applicable to the source of air pollutant emissions. This form must be notarized by a public notary.

Mark Hodge , being first duly sworn upon oath, deposes and says:

1. I live in WAYNE 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 Director of Manufacturing for Hills Pet Nutrition (permit applicant's or facility's name).
3. By virtue of my position with Hills Pet Nutrition (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 applies to Hills Pet Nutrition permit applicant's or facility's name) for purposes of the accompanying permit application.
5. As required by Indiana Code § 13-15-8, the permit applicant will send written notice to adjacent landowners not more than ten (10) days after submission of the accompanying application for a Title V Operating Permit (briefly describe type of permit application) filed on behalf of Hills Pet Nutrition (permit applicant's or facility's name).
6. **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.

Mark Hodge
Name *(typed)*

Director of Manufacturing
Title

M Hodge
Signature

27 June, 2024
Date

STATE OF INDIANA

COUNTY OF WAYNE

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 Mark Hodge, and being first duly sworn by me upon oath, says that the fact stated in the foregoing instrument are true. Signed and sealed this 27 of June, 2027

Printed: Jessica Lane

My Commission Expires: May 22, 2027

Residence of IN

County Wayne

JESSICA LANE
Notary Public - Seal
Wayne County - State of Indiana
Commission Number NP0720420
My Commission Expires May 22, 2027

OAQ GENERAL SOURCE DATA APPLICATION
GSD-14: Owners and Occupants Notified

State Form 51609 (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 GSD-14 is to identify adjacent landowners and occupants 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.

Owners And Occupants Notified

Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.

1. Owner / Occupant Name: THE CITY OF RICHMOND - BOARD OF PARKS AND REC		**2. Date Notified**: 6/15/2024
3. Address: 50 N 5TH ST		
City: RICHMOND	**State**: IN	**ZIP Code**: 47374 –
4. Electronic Mail: parks@richmondindiana.gov	**5. Telephone Number**: (765) 983 - 7275	
6. Method of Notification: ☐ **Telephone** ☒ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Owner / Occupant Name: CARDINAL GREENWAY INC		**Date Notified**: 6/15/2024
Address: 700 E WYSOR ST		
City: MUNCIE	**State**: IN	**ZIP Code**: 47305 –
Electronic Mail: INFO@CARDINALGREENWAYS.ORG	**Telephone Number**: (765) 287 - 0399	
Method of Notification: ☐ **Telephone** ☒ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Owner / Occupant Name: RICHMOND, INDIANA REDEVELOPMENT AUTHORITY		**Date Notified**: 06/15/2024
Address: 50 N 5TH ST		
City: RICHMOND	**State**: IN	**ZIP Code**: 47374 –
Electronic Mail:	**Telephone Number**: (765) 983 - 7200	
Method of Notification: ☒ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Owner / Occupant Name:		**Date Notified**:
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Owner / Occupant Name:		**Date Notified**:
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		

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: Christine Stinson		**2. Date Notified**: 6/15/2024
3. Title: Wayne County Health Department Contact Person		
4. Address: 401 East Main		
City: Richmond	**State**: IN	**ZIP Code**: 47374 –
5. Electronic Mail: health@co.wayne.in.us	**6. Telephone Number**: (765) 973 - 9245	
7. Method of Notification: ☐ **Telephone** ☒ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Name: Karen Chasteen		**Date Notified**: 6/15/2024
Title: Clerk		
Address: 50 N 5th St.		
City: Richmond	**State**: IN	**ZIP Code**: 47374 –
Electronic Mail: kchasteen@richmondindiana.gov	**Telephone Number**: (765) 983 - 7232	
Method of Notification: ☐ **Telephone** ☒ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Name:		**Date Notified**:
Title:		
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Name:		**Date Notified**:
Title:		
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		

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 *(actual or anticipated)*	5. Heat Input Rate of each unit *(MMBtu/hr)*	6. Emergency / Back-Up Unit?
Boiler	2	B1, B2	1/1/1995	30.48	☐ Yes ☒ No
Boiler	1	B3	1/1/1995	3.13	☐ Yes ☒ No
Dryer	2	D3-DR-101, D3-DR-201	1/1/1995	11.40	☐ Yes ☒ No
Dryer	2	D3-DR-300, D3-DR-400	1/1/1995	14.00	☐ Yes ☒ No
Fire Pump Engine	1	EM ICE - FP			☒ Yes ☐ No
Space Heater	2	ACU-1, ACU-2	1/1/2015	0.53	☐ Yes ☒ No
Space Heater	1	ACU-3	1/1/2014	0.81	☐ Yes ☒ No
Space Heater	2	ACU-4, ACU-5	1/1/2016	0.35	☐ Yes ☒ No
Space Heater	1	ACU-12	1/1/2018	0.25	☐ Yes ☒ No
Space Heater	1	ACU-14	1/1/2018	0.20	☐ Yes ☒ No

Space Heater	2	GMU-8, GMU-9	1/1/2005	1.90	☐ Yes ☒ No
Space Heater	1	GMU-10	1/1/2005	6.05	☐ Yes ☐ No

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 *(actual or anticipated)*	5. Heat Input Rate of each unit *(MMBtu/hr)*	6. Emergency / Back-Up Unit?
Space Heater	5	GMU-12, GMU-13, GMU-14, GMU-15, GMU-16	1/1/2000	1.52	☐ Yes ☒ No
Space Heater	2	GMU-19, GMU-20	1/1/2000	4.18	☐ Yes ☒ No
Space Heater	1	GMU-25	1/1/2000	0.98	☐ Yes ☒ No
Space Heater	1	GMU-26	1/1/2008	2.20	☐ Yes ☒ No
Space Heater	1	GMU-27	1/1/2008	1.20	☐ Yes ☒ No
Space Heater	1	GMU-28	1/1/2012	2.12	☐ Yes ☒ No
Space Heater	3	GMU-40, GMU-41, GMU-42	1/1/2010	4.40	☐ Yes ☒ No
Space Heater	1	GMU-92	1/1/2016	3.60	☐ Yes ☒ No
					☐ Yes ☐ No
					☐ Yes ☐ No

					☐ Yes ☐ No
					☐ Yes ☐ No

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: B1, B2

2. Type of Combustion Unit

☒ Boiler:	☒ Industrial Boiler	☐ Commercial Boiler
	☐ Institutional Boiler	☐ Horseshoe Boiler
☐ Process Heater:	☐ Dutch Oven	☐ Drying Oven
	☐ Fuel Cell	☐ Space Heater
☐ Furnace:	☐ Crucible	☐ Crucible Pot
	☐ Cupola	☐ Electric Arc
	☐ Electric Induction	☐ Open Hearth
	☐ Open Hearth, Oxygen Lanced	☐ Pot
	☐ Reverberatory	☐ Sweat

3. Combustion Process

☒ Cyclone Burner	☐ Fluidized Bed – *Circulating*	☐ Fluidized Bed – *Bubbling*
☐ Overfeed Stoker / Traveling Grate	☐ Pulverized – *Dry Bottom*	☐ Pulverized – *Wet Bottom*
☐ Spreader Stoker	☐ Underfeed Stoker	☐ Other *(specify)*: _____

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.*

Continued on Next Page

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.*

Process boilers operated 6 days per week. 30.48 MMBtu/hr heat input capacity for each of the two (2) boilers. These two (2) boilers and all equipment in this application is already installed and was operating under a combination of PBR and SSOA until that was noticed by an inspector as an non-permissible permitting situation.

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:

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-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: B3

2. Type of Combustion Unit

☒ Boiler:	☒ Industrial Boiler	☐ Commercial Boiler
	☐ Institutional Boiler	☐ Horseshoe Boiler
☐ Process Heater:	☐ Dutch Oven	☐ Drying Oven
	☐ Fuel Cell	☐ Space Heater
☐ Furnace:	☐ Crucible	☐ Crucible Pot
	☐ Cupola	☐ Electric Arc
	☐ Electric Induction	☐ Open Hearth
	☐ Open Hearth, Oxygen Lanced	☐ Pot
	☐ Reverberatory	☐ Sweat

3. Combustion Process

☒ Cyclone Burner	☐ Fluidized Bed – *Circulating*	☐ Fluidized Bed – *Bubbling*
☐ Overfeed Stoker / Traveling Grate	☐ Pulverized – *Dry Bottom*	☐ Pulverized – *Wet Bottom*
☐ Spreader Stoker	☐ Underfeed Stoker	☐ Other *(specify)*: _____

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.*

Continued on Next Page

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.*

Process boilers operated 6 days per week. 30.48 MMBtu/hr heat input capacity for each of the two (2) boilers. These two (2) boilers and all equipment in this application is already installed and was operating under a combination of PBR and SSOA until that was noticed by an inspector as an non-permissible permitting situation.

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:

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-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: PD1, PD2

2. Type of Combustion Unit

☐ Boiler:	☐ Industrial Boiler	☐ Commercial Boiler
	☐ Institutional Boiler	☐ Horseshoe Boiler
☒ Process Heater:	☐ Dutch Oven	☒ Drying Oven
	☐ Fuel Cell	☐ Space Heater
☐ Furnace:	☐ Crucible	☐ Crucible Pot
	☐ Cupola	☐ Electric Arc
	☐ Electric Induction	☐ Open Hearth
	☐ Open Hearth, Oxygen Lanced	☐ Pot
	☐ Reverberatory	☐ Sweat

3. Combustion Process

☐ Cyclone Burner	☐ Fluidized Bed – *Circulating*	☐ Fluidized Bed – *Bubbling*
☐ Overfeed Stoker / Traveling Grate	☐ Pulverized – *Dry Bottom*	☐ Pulverized – *Wet Bottom*
☐ Spreader Stoker	☐ Underfeed Stoker	☐ Other *(specify)*: _____

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.*

Continued on Next Page

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.*

Process Dryers for Line 1 and 2. 11.4 MMBtu/hr each. NG fired. PM mobilized in product is controlled by cyclone. Exhaust emissions. These dryers are already installed, as are all of the equipment pieces within this permit application.

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?

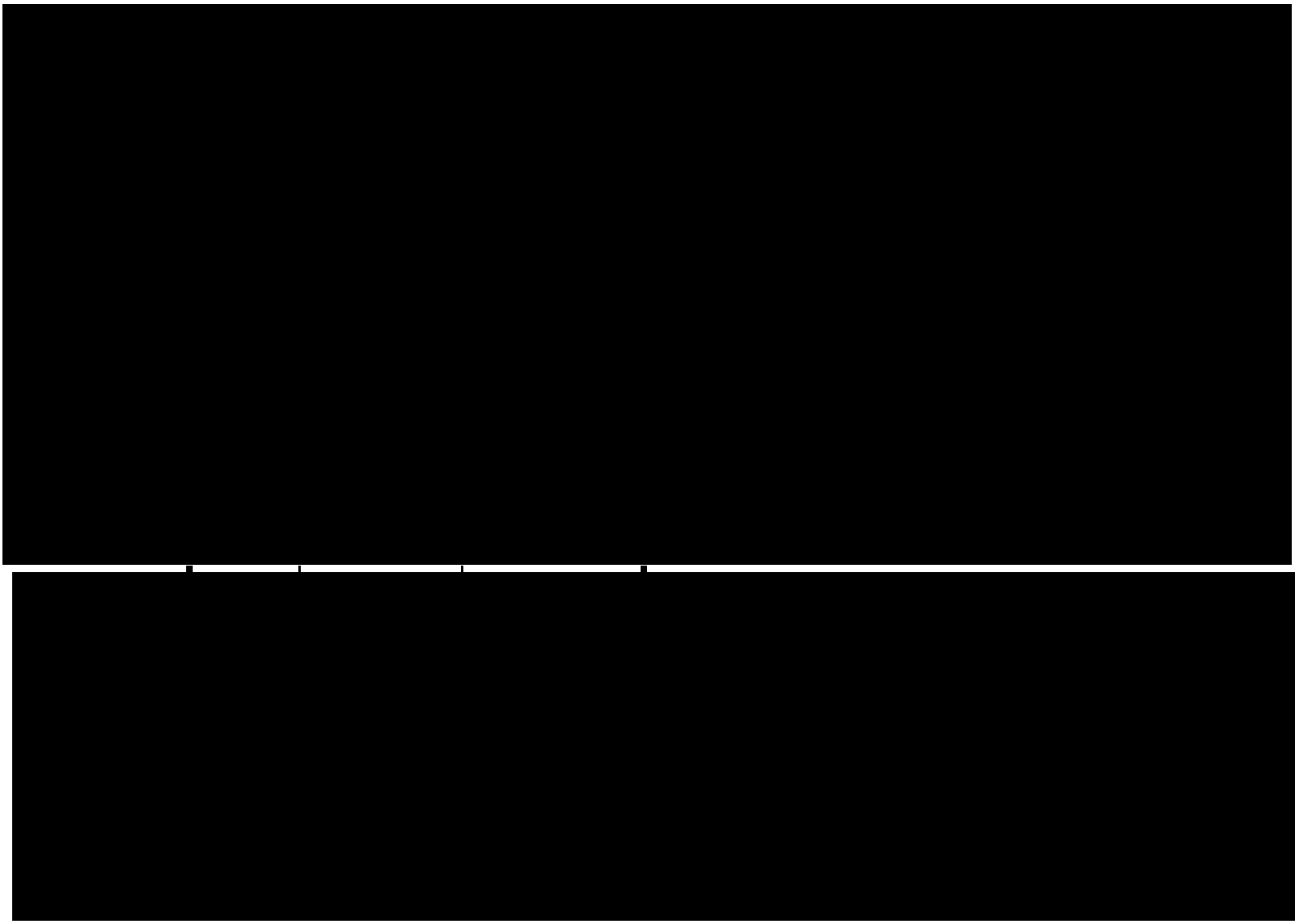
☐ No – Proceed to Part D.

☒ Yes → ☒ Information attached. ☐ Information is contained in operating permit:

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-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: PD3, PD4

2. Type of Combustion Unit

☐ Boiler:	☐ Industrial Boiler	☐ Commercial Boiler
	☐ Institutional Boiler	☐ Horseshoe Boiler
☒ Process Heater:	☐ Dutch Oven	☒ Drying Oven
	☐ Fuel Cell	☐ Space Heater
☐ Furnace:	☐ Crucible	☐ Crucible Pot
	☐ Cupola	☐ Electric Arc
	☐ Electric Induction	☐ Open Hearth
	☐ Open Hearth, Oxygen Lanced	☐ Pot
	☐ Reverberatory	☐ Sweat

3. Combustion Process

☐ Cyclone Burner	☐ Fluidized Bed – *Circulating*	☐ Fluidized Bed – *Bubbling*
☐ Overfeed Stoker / Traveling Grate	☐ Pulverized – *Dry Bottom*	☐ Pulverized – *Wet Bottom*
☐ Spreader Stoker	☐ Underfeed Stoker	☐ Other *(specify)*: _____

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.*

Continued on Next Page

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.*

Process Dryers for Line 3 and 4. 14.0 MMBtu/hr each. NG fired. PM mobilized in product is controlled by cyclone. Exhaust emissions are not controlled beyond use of Low NOx burners.

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:

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: B1, B2

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:
☒ Natural Gas	100.00%	☒ Primary ☐ Secondary	Sulfur: 0.00%	1020.00 *(Btu/ft³)*
☐ Liquefied Petroleum Gas ☐ *Commercial- Propane* ☐ *Engine Fuel Propane (HD-5)* ☐ *Commercial- Butane*		☐ Primary ☐ Secondary	Sulfur: Butane: Propane:	*(Btu/ft³)*
☐ Process Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Landfill Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Other *(specify)*:		☐ Primary ☐ Secondary	:	*(Btu/ft³)*

* Indicate the source of the process or landfill gas:

Continued on Next Page

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:
☐ Residual Fuel Oil ☐ *No. 5 – Heavy* ☐ *No. 5 – Light* ☐ *No. 6 (Bunker C)*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Distillate Fuel Oil ☐ *No. 1* ☐ *No. 2 (Diesel)* ☐ *No. 4*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Waste Oil		☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	*(Btu/gal)*	
☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	*(Btu/gal)*	
☐ Other *(specify)*:		☐ Primary ☐ Secondary	: :	*(Btu/gal)*	

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

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Continued on Next Page

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?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ *Anthracite* ☐ *Culm*		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Other Coal *(specify)*:		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/gal)*	☐ Dry ☐ Moist

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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:
☐ Wood or Wood Waste ☐ *Wood Only* ☐ *Wood Residue Only* ☐ *Wood and Wood Residue*		☐ Primary ☐ Secondary	Moisture:	*(Btu/ton)*	
☐ Tires or Tire Derived Fuel ☐ *Whole Tires* ☐ *Tire Derived Fuel*		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	*(Btu/lb)*	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	*(Btu/lb)*	
☐ Solid Waste *		☐ Primary ☐ Secondary	: :	*(Btu/lb)*	
☐ Other *(specify)*:		☐ Primary ☐ 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.

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: B3

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:
☒ Natural Gas	100.00%	☒ Primary ☐ Secondary	Sulfur: 0.00%	1020.00 *(Btu/ft³)*
☐ Liquefied Petroleum Gas ☐ *Commercial- Propane* ☐ *Engine Fuel Propane (HD-5)* ☐ *Commercial- Butane*		☐ Primary ☐ Secondary	Sulfur: Butane: Propane:	*(Btu/ft³)*
☐ Process Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Landfill Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Other *(specify)*:		☐ Primary ☐ Secondary	:	*(Btu/ft³)*

* Indicate the source of the process or landfill gas:

Continued on Next Page

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:
☐ Residual Fuel Oil ☐ *No. 5 – Heavy* ☐ *No. 5 – Light* ☐ *No. 6 (Bunker C)*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Distillate Fuel Oil ☐ *No. 1* ☐ *No. 2 (Diesel)* ☐ *No. 4*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Waste Oil		☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	*(Btu/gal)*	
☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	*(Btu/gal)*	
☐ Other *(specify)*:		☐ Primary ☐ Secondary	: :	*(Btu/gal)*	

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

This space was intentionally left blank.

Continued on Next Page

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?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ *Anthracite* ☐ *Culm*		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Other Coal *(specify)*:		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/gal)*	☐ Dry ☐ Moist

This space was intentionally left blank.

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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:
☐ Wood or Wood Waste ☐ *Wood Only* ☐ *Wood Residue Only* ☐ *Wood and Wood Residue*		☐ Primary ☐ Secondary	Moisture:	*(Btu/ton)*	
☐ Tires or Tire Derived Fuel ☐ *Whole Tires* ☐ *Tire Derived Fuel*		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	*(Btu/lb)*	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	*(Btu/lb)*	
☐ Solid Waste *		☐ Primary ☐ Secondary	: :	*(Btu/lb)*	
☐ Other *(specify)*:		☐ Primary ☐ 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.

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: PD1, PD2

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:
☒ Natural Gas	100.00%	☒ Primary ☐ Secondary	Sulfur: 0.00%	1000.00 *(Btu/ft³)*
☐ Liquefied Petroleum Gas ☐ *Commercial- Propane* ☐ *Engine Fuel Propane (HD-5)* ☐ *Commercial- Butane*		☐ Primary ☐ Secondary	Sulfur: Butane: Propane:	*(Btu/ft³)*
☐ Process Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Landfill Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Other *(specify)*:		☐ Primary ☐ Secondary	:	*(Btu/ft³)*

* Indicate the source of the process or landfill gas:

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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:
☐ Residual Fuel Oil ☐ *No. 5 – Heavy* ☐ *No. 5 – Light* ☐ *No. 6 (Bunker C)*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Distillate Fuel Oil ☐ *No. 1* ☐ *No. 2 (Diesel)* ☐ *No. 4*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Waste Oil		☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	*(Btu/gal)*	
☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	*(Btu/gal)*	
☐ Other *(specify)*:		☐ Primary ☐ Secondary	: :	*(Btu/gal)*	

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

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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?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ *Anthracite* ☐ *Culm*		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Other Coal *(specify)*:		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/gal)*	☐ Dry ☐ Moist

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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:
☐ Wood or Wood Waste ☐ *Wood Only* ☐ *Wood Residue Only* ☐ *Wood and Wood Residue*		☐ Primary ☐ Secondary	Moisture:	*(Btu/ton)*	
☐ Tires or Tire Derived Fuel ☐ *Whole Tires* ☐ *Tire Derived Fuel*		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	*(Btu/lb)*	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	*(Btu/lb)*	
☐ Solid Waste *		☐ Primary ☐ Secondary	: :	*(Btu/lb)*	
☐ Other *(specify)*:		☐ Primary ☐ 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.

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: PD3, PD4

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:
☒ Natural Gas	100.00%	☒ Primary ☐ Secondary	Sulfur: 0.00%	1000.00 *(Btu/ft³)*
☐ Liquefied Petroleum Gas ☐ *Commercial- Propane* ☐ *Engine Fuel Propane (HD-5)* ☐ *Commercial- Butane*		☐ Primary ☐ Secondary	Sulfur: Butane: Propane:	*(Btu/ft³)*
☐ Process Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Landfill Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Other *(specify)*:		☐ Primary ☐ Secondary	:	*(Btu/ft³)*

* Indicate the source of the process or landfill gas:

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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:
☐ Residual Fuel Oil ☐ *No. 5 – Heavy* ☐ *No. 5 – Light* ☐ *No. 6 (Bunker C)*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Distillate Fuel Oil ☐ *No. 1* ☐ *No. 2 (Diesel)* ☐ *No. 4*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Waste Oil		☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	*(Btu/gal)*	
☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	*(Btu/gal)*	
☐ Other *(specify)*:		☐ Primary ☐ Secondary	: :	*(Btu/gal)*	

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

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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?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ *Anthracite* ☐ *Culm*		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Other Coal *(specify)*:		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/gal)*	☐ Dry ☐ Moist

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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:
☐ Wood or Wood Waste ☐ *Wood Only* ☐ *Wood Residue Only* ☐ *Wood and Wood Residue*		☐ Primary ☐ Secondary	Moisture:	*(Btu/ton)*	
☐ Tires or Tire Derived Fuel ☐ *Whole Tires* ☐ *Tire Derived Fuel*		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	*(Btu/lb)*	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	*(Btu/lb)*	
☐ Solid Waste *		☐ Primary ☐ Secondary	: :	*(Btu/lb)*	
☐ Other *(specify)*:		☐ Primary ☐ 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.

OAQ PROCESS INFORMATION APPLICATION
PI-02G: Combustion – Emission Factors

State Form 52541 (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 the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02G 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.

Emission Factors

This table identifies all emission factors used to calculate air emissions from the combustion unit.

1. Unit ID: B1, B2

2. Air Pollutant:	**3. Emission Factor**		**4. Source of Emission Factor** *(if not using AP-42, include calculations)*		
	value	*units*			
Carbon Monoxide (CO)	84.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Lead (Pb)	0.50	lb/1,000 MMSCF	☒ AP-42	☐ Other	☐ N/A
Hazardous Air Pollutant (HAP) *(specify)*: TOTAL	1.88	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Nitrogen Oxides (NO_X)	50.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Mercury (Hg)	0.26	lb/1,000 MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter (PM)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 10μm (PM_{10})	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 2.5μm ($PM_{2.5}$)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Sulfur Dioxide (SO_2)	0.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Volatile Organic Compounds (VOC)	5.50	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Hexane (HAP)	1.80	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Formaldehyde (HAP)	0.08	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: See AP-42 for other trace HAPs			☐ AP-42	☐ Other	☐ N/A

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OAQ PROCESS INFORMATION APPLICATION
PI-02G: Combustion – Emission Factors

State Form 52541 (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 the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02G 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.

Emission Factors

This table identifies all emission factors used to calculate air emissions from the combustion unit.

1. Unit ID: B3

2. Air Pollutant:	**3. Emission Factor**		**4. Source of Emission Factor** *(if not using AP-42, include calculations)*		
	value	*units*			
Carbon Monoxide (CO)	84.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Lead (Pb)	0.50	lb/1,000 MMSCF	☒ AP-42	☐ Other	☐ N/A
Hazardous Air Pollutant (HAP) *(specify)*: TOTAL	1.88	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Nitrogen Oxides (NO_X)	50.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Mercury (Hg)	0.26	lb/1,000 MMSCF	☐ AP-42	☐ Other	☐ N/A
Particulate Matter (PM)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 10μm (PM_{10})	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 2.5μm ($PM_{2.5}$)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Sulfur Dioxide (SO_2)	0.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Volatile Organic Compounds (VOC)	5.50	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Hexane (HAP)	1.80	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Formaldehyde (HAP)	0.08	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: See AP-42 for other trace HAPs			☐ AP-42	☐ Other	☐ N/A

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OAQ PROCESS INFORMATION APPLICATION
PI-02G: Combustion – Emission Factors

State Form 52541 (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 the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02G 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.

Emission Factors

This table identifies all emission factors used to calculate air emissions from the combustion unit.

1. Unit ID: D3-DR-101, D3-DR-201

2. Air Pollutant:	**3. Emission Factor**		**4. Source of Emission Factor** *(if not using AP-42, include calculations)*		
	value	*units*			
Carbon Monoxide (CO)	84.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Lead (Pb)	0.50	lb/1,000 MMSCF	☒ AP-42	☐ Other	☐ N/A
Hazardous Air Pollutant (HAP) *(specify)*: TOTAL	1.88	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Nitrogen Oxides (NO_X)	50.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Mercury (Hg)	0.26	lb/1,000 MSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter (PM)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 10μm (PM_{10})	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 2.5μm ($PM_{2.5}$)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Sulfur Dioxide (SO_2)	0.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Volatile Organic Compounds (VOC)	5.50	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Hexane (HAP)	1.80	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Formaldehyde (HAP)	0.08	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: See AP-42 for other trace HAPs			☐ AP-42	☐ Other	☐ N/A

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OAQ PROCESS INFORMATION APPLICATION
PI-02G: Combustion – Emission Factors

State Form 52541 (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 the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02G 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.

Emission Factors

This table identifies all emission factors used to calculate air emissions from the combustion unit.

1. Unit ID: D3-DR-300, D3-DR-400

2. Air Pollutant:	**3. Emission Factor**		**4. Source of Emission Factor** *(if not using AP-42, include calculations)*		
	value	*units*			
Carbon Monoxide (CO)	84.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Lead (Pb)	0.50	lb/1,000 MMSCF	☒ AP-42	☐ Other	☐ N/A
Hazardous Air Pollutant (HAP) *(specify)*: TOTAL	1.88	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Nitrogen Oxides (NO_X)	50.00	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Mercury (Hg)	0.26	lb/1,000 MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter (PM)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 10μm (PM_{10})	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 2.5μm ($PM_{2.5}$)	7.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Sulfur Dioxide (SO_2)	0.60	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Volatile Organic Compounds (VOC)	5.50	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Hexane (HAP)	1.80	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: Formaldehyde (HAP)	0.08	lb/MMSCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: See AP-42 for other trace HAPs			☐ AP-42	☐ Other	☐ N/A

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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? *If yes, attach a completed FED-01 for each rule that applies.*	☐ Yes ☒ No	**2. Unit IDs**
☐ 40 CFR Part 60, Subpart Cb	Large Municipal Waste Combustors *(constructed before 9/20/1994)*	
☐ 40 CFR Part 60, Subpart Ce	Hospital/Medical/Infectious Waste Incinerators	
☐ 40 CFR Part 60, Subpart D	Fossil-Fuel-Fired Steam Generators *(constructed after 8/17/1971)*	
☐ 40 CFR Part 60, Subpart Da	Electric Utility Steam Generating Units *(constructed after 9/18/1978)*	
☐ 40 CFR Part 60, Subpart Db	Industrial-Commercial-Institutional Generating Units	
☐ 40 CFR Part 60, Subpart Dc	Small Industrial-Commercial-Institutional Generating Units	
☐ 40 CFR Part 60, Subpart E	Incinerators	
☐ 40 CFR Part 60, Subpart Ea	Municipal Waste Combustors *(constructed after 12/20/1989 and before 9/20/1994)*	
☐ 40 CFR Part 60, Subpart Eb	Large Municipal Waste Combustors *(constructed after 9/20/1994 or modified / reconstructed after 6/19/1996)*	
☐ 40 CFR Part 60, Subpart Ec	Hospital/Medical/Infectious Waste Incinerators *(constructed after 6/20/1996)*	
☐ 40 CFR Part 60, Subpart O	Sewage Treatment Plants *(sludge burners)*	
☐ 40 CFR Part 60, Subpart Y	Coal Preparation Plants	
☐ 40 CFR Part 60, Subpart GG	Stationary Gas Turbines	
☐ 40 CFR Part 60, Subpart AAA	New Residential Wood Heaters	
☐ 40 CFR Part 60, Subpart AAAA	Small Municipal Waste Combustion Units *(constructed after 8/30/1999 or modified / reconstructed after 6/6/2001)*	
☐ 40 CFR Part 60, Subpart BBBB	Small Municipal Waste Combustion Units *(constructed on or before 8/30/1999)*	
☐ 40 CFR Part 60, Subpart CCCC	Commercial and Industrial Solid Waste Incineration Units *(constructed after 11/30/1999 or modified / reconstructed after 6/1/2001)*	
☐ 40 CFR Part 60, Subpart DDDD	Commercial and Industrial Solid Waste Incineration Units *(constructed on or before 11/30/1999)*	
☐ 40 CFR Part 60, Subpart KKKK	Stationary Combustion Turbines	

Continued on Next Page

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? *If yes, attach a completed FED-01 for each rule that applies.* ☒ Yes ☐ No		**4. Unit IDs**
☐ 40 CFR Part 63, Subpart MM	Combustion Sources at Kraft, Soda, and Sulfite Pulp & Paper Mills	
☐ 40 CFR Part 63, Subpart EEE	Hazardous Waste Combustion	
☐ 40 CFR Part 63, Subpart YYYY	Stationary Combustion Turbines	
☒ 40 CFR Part 63, Subpart ZZZZ	Reciprocating Internal Combustion Engines (RICE)	EM ICE - FP
☐ 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.*

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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 & Handing 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 *(see instructions)*	5. Material Handled/ Stored	6. Maximum Materials Throughput Rate *(tons/year)*
Grain Elevators/Silos	GR			Various Grains	225,000 total

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.*

☐ Adsorber – *Attach CE-07.*

☐ Other *(specify)*: – *Attach CE-10.*

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

Grain Receiving units are loaded either pneumatically or via enclosed conveyors. Loading/batching operations are controlled by a dust collector.

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

Continued on next page

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 *(from table above)*	11. Method of Handling	12. Type of Storage	13. Storage Capacity *(tons)*	14. Pile Acreage	15. Silt Content *(% by weight)*	16. Moisture Content *(% by weight)*
See attached grain storage summary table.						

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 *(complete for all units listed in Part A of this form)*	18. Air Pollutant	19. Emission Factor		20. Source of Emission Factor *(if not using AP-42, include calculations)*	
		value	*units*		
GR	PM	10.00	lb/1000 ton	☒ AP-42	☐ Other
GR	PM-10	2.50	lb/1000 ton	☒ AP-42	☐ Other
GR	PM-2.5	2.50	lb/1000 ton	☒ AP-42	☐ Other
				☐ AP-42	☐ 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? *If yes, attach a completed FED-01 for each rule that applies.* ☐ Yes ☒ No

- ☐ 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? *If yes, attach a completed FED-01 for each rule that applies.* ☐ Yes ☒ No

- ☐ 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.

NSPS is not applicable as the grain elevators are not new sources.

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: *(actual or anticipated)*

2. Grain Variety: *(check all that apply)*	**3. Maximum Processing Rate:** *(bushels/year)*	**4. Is the Grain Cleaned prior to processing?**
☒ Corn	68,157,714 lb/year	☐ No ☒ Yes: *% cleaned*: 100.00%
☐ Soybeans		☐ No ☐ Yes: *% cleaned*:
☒ Wheat	47234131.00	☐ No ☒ Yes: *% cleaned*: 100
☐ Oats		☐ No ☐ Yes: *% cleaned*:
☒ Other: Rice	See Complete Grain Receiving Summary Table	☐ No ☐ Yes: *% cleaned*:

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

6. Loading Source: *(check all that apply and indicate the percentage)*
☒ Truck (100.00%) ☐ Rail ( ) ☐ Barge ( )
☐ 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: *(check all that apply)*	**8. Quantity:**	**9. Unit ID(s):**	**10. Number of Times Filled Annually:**	**11. Storage Capacity:** *(bushels)*
☒ Silo(s)				
☒ Bin(s)				
☐ Other *(specify)*:				
			Total Storage Capacity:	

Continued on Next Page

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: *(check all that apply)*	13. Quantity:	14. Unit ID(s):	15. Are the Conveyors Totally Enclosed?	16. Are the Transfer Points Totally Enclosed?
☐ Auger			☐ Yes ☐ No	☐ Yes ☐ No
☐ Belt Conveyor			☐ Yes ☐ No	☐ Yes ☐ No
☐ Bucket Conveyor			☐ Yes ☐ No	☐ Yes ☐ No
☐ Drag Conveyor			☐ Yes ☐ No	☐ Yes ☐ No
☒ Pneumatic			☒ Yes ☐ No	☒ Yes ☐ No
☐ Other *(specify)*:			☐ Yes ☐ No	☐ Yes ☐ 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: *(check all that apply)*	19. Quantity:	20. Unit ID(s):	21. Dryer Specific Parameters:	22. Fuel Used: *(If "other", attach completed PI-02F form.)*
☐ Column Dryer			Plate Perforation Diameter *(specify units)*:	☐ NA ☐ Natural Gas only ☐ Other
☒ Rack Dryer			Mesh Size *(specify units)*:	☐ NA ☒ Natural Gas only ☐ Other
☐ Other *(specify)*:			Drying Technique *(specify)*:	☐ NA ☐ Natural Gas only ☐ Other

PART E: Emission Factors

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

23. Process Unit: (& ID *if applicable*)	24. Air Pollutant:	25. Emission Factor: *value*	25. Emission Factor: *units*	26. Source of Emission Factor *(if not using AP-42, include calculations)*
GR	PM-10	2.50	lb/1000 ton	☒ AP-42 ☐ Other
GD	PM-10	750.00	lb/1000 ton	☒ AP-42 ☐ Other
GR	PM-2.5	2.50	lb/1000 ton	☒ AP-42 ☐ Other
GD	PM-2.5	130.00	lb/1000 ton	☒ AP-42 ☐ Other

Continued on Next Page

				☐ AP-42 ☐ Other

Continued on Next Page

PART F: Control Technology

Part F identifies the methods used to control emissions from this process.

27. Are hopper emissions controlled?

☐ Receiving Area only ☐ Grain Processing only
☒ All area are controlled ☐ No areas are controlled

28. 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.*
☐ Other *(specify)*: – *Attach CE-10.*

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

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

PART G: Federal Rule Applicability

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

31. Is a **New Source Performance Standard (NSPS)** applicable to this source? *Attach a completed FED-01 for each rule that applies.*		☐ Yes ☒ No	**32. Unit IDs**
☐ 40 CFR Part 60, Subpart DD	Grain Elevators		
☐ 40 CFR Part 60, Subpart OOO	Non-Metallic Mineral Processing Plants		
☐ 40 CFR Part 60, Subpart UUU	Calciners and Dryers in Mineral Industries		
33. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? *Attach a completed FED-01 for each rule that applies.*		☐ Yes ☒ No	**34. Unit IDs**
☐ 40 CFR Part 61, Subpart _____	*(specify)*		
☐ 40 CFR Part 63, Subpart _____	*(specify)*		

35. 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.

NSPS not applicable as the grain elevators are not new sources. They were previously operated under PBR.

OAQ CONTROL EQUIPMENT APPLICATION
CE-01: Control Equipment Summary

State Form 51904 (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 CE-01 is to summarize all of the equipment used to control emissions. 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 any one to inspect and photocopy.

Summary of Control Equipment

This table summarizes all of the equipment used to control air pollutant emissions. The identification numbers listed on this form should correspond to the emissions unit identified on the Plant Layout diagram and Process Flow diagram.

1. Control Equipment ID	2. Control Equipment Description	3. Pollutant Controlled	4. Emission Unit ID	5. Stack / Vent ID	6. Applicable Rule
32-CI-102,103	Cyclone for Dryers 1 & 2	PM/PM10/ PM2.5	32-DR-101, 32-DR-201	V-L1-D	
D3-CI-302,303,304	Cyclone for Dryers 3 & 4	PM/PM10/ PM2.5	D3-DR-300, D3-DR-400	V-L3-D	
32-CI-102, 103	Cyclone for Coolers 1 & 2	PM/PM10/ PM2.5	32-CO-101, 32-CO-201	V-L1-C	
D3-CI-305,306	Cyclone for Coolers 3 & 4	PM/PM10/ PM2.5	D3-CO-300, D3-CO-400	V-L3-C	
41-DC-101	Dust Collector for Grain Receiving	PM/PM10/ PM2.5	Various		
Various	Hammermill Baghouses	PM/PM10/ PM2.5	Various		
Various	Product Dryer Dust Collectors	PM/PM10/ PM2.5	Various		
Various	Grain Cleaning (Screening) Dust Collector	PM/PM10/ PM2.5	Various		
Various	Storage Bin (vents) fabric filters	PM/PM10/ PM2.5	Various		

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
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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:	D2-FR-000127, 41-DC-101, D1-FR-000001, D1-FR-000132, D1-FR-000133, D2-FR-000088 (Grain Receiving/Screening DCs); 41DC-102 (Batching/Milling DC); 42DC-101 (Surge Bin Vent)
2. Installation Date:	
3. Bags or Cartridges?	☒ Bags ☒ Cartridges
4. Filter Material:	Varies
5. Number of Bags/Cartridges per Compartment:	
6. Number of Compartments:	
7. Mode of Operation:	☐ Intermittent ☐ Periodic ☒ Continuous
8. Cleaning Method:	☐ Shaking ☐ Reverse Pulse ☐ Reverse Air ☐ Jet Pulse
9. Cleaning Cycle / Frequency *(specify units)*:	
10. Is a bag leak detector installed on this device?	☐ Yes ☐ No
11. Type / Description of Bag Leak Detector:	☐ Positive Pressure ☐ Negative Pressure
12. Air to Cloth Ratio *(Ex: 1.3 : 1.0)*:	:
13. Is **Lime Injection** used on this device?	☐ Yes ☐ No
14. Is **Carbon Injection** used on this device?	☐ Yes ☐ 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			
16. Gas Stream Temperature	°F			
17. Gas Stream Pressure	inches of water			to
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)*:				

Continued on Next Page

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
☐ **a.** Lead (Pb)					
☐ **b.** Hazardous Air Pollutant (HAP) *(specify)*:					
☒ **c.** Particulate Matter (PM)				100.00%	99.00%
☒ **d.** Particulate Matter less than 10μm (PM_{10})				100.00%	93.00%
☒ **e.** Particulate Matter less than 2.5μm ($PM_{2.5}$)				100.00%	93.00%
☐ **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:				
28. Monitoring Frequency:				
29. Item(s) Recorded:				
30. Record Keeping Frequency:				
31. Pollutant(s) Tested:				
32. Test Method(s):				
33. Testing Frequency:				

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.

The dust needs to be vented for safety reasons. If the control device fails, there could be unsafe atmospheric conditions from both a fire safety and worker respiratory conditions perspective.

OAQ CONTROL EQUIPMENT APPLICATION
CE-03: Particulate Control – Cyclone

State Form 52620 (R / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

NOTES:

- The purpose of CE-03 is to identify all the parameters that describe the cyclone. This is a required form.
- Complete this form once for each cyclone (or once for each set of identical cyclones).
- 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:	D3-CI-305, D3-CI-306, D3-CI-040405, D3-CI-040406 (Cooler Exhaust Cyclones)
2. Installation Date:	
3. Number of Tubes:	2 *For multiple tubes:* ☐ Parallel ☒ Series
4. Is an Alarm / Detector installed on this device? *If yes, describe the alarm or detector system.*	☐ Yes ☐ 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.

	A. Units	B. Inlet	C. Outlet	D. Differential
5. Gas Stream Flow Rate	ACFM			
6. Gas Stream Temperature	°F			
7. Gas Stream Pressure	inches of water			to
8. Moisture Content	%			
9. Average Particle Size Range	micrometers			to
10. Other *(specify)*:				

PART C: Pollutant Concentrations

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

		11. Units	12. Inlet	13. Outlet	14. Efficiency *(%)*: Capture	Control
☐	**a.** Hazardous Air Pollutant (HAP) *(specify)*:					
☒	**b.** Particulate Matter (PM)				100.00%	80.00%
☒	**c.** Particulate Matter less than 10μm (PM_{10})				100.00%	60.00%
☒	**d.** Particulate Matter less than 2.5μm ($PM_{2.5}$)				100.00%	60.00%
☐	**e.** Other Pollutant *(specify)*:					

Continued on Next Page

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.

15. Item(s) Monitored:				
16. Monitoring Frequency:				
17. Item(s) Recorded:				
18. Record Keeping Frequency:				
19. Pollutant(s) Tested:				
20. Test Method(s):				
21. Testing Frequency:				

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.

22. 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.

23. 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

24. Is this device integral to the process? ☐ No ☒ Yes
If "Yes", provide the reason(s) why the device is integral.

The dust needs to be vented for safety reasons. If the control device fails, there could be unsafe atmospheric conditions from both a fire safety and worker respiratory conditions perspective.

Attachment A

Feed Mill Potential Emissions

Air emissions for feed mills - Potential emissions

Important: If you are applying for a state or federal individual air permit, do not use this tab for your application. Individual permit applications must calculate potential emissions for each emission unit. Guidance is available at MPCA's air permit emission calculation page: https://www.pca.state.mn.us/business-with-us/grain-elevators-and-feed-mills-emission-calculations

Facility information for emission calculations

Facility name:	Hills	
Max. capacity:	225,000.0	tons/year

For grain processing facilities, max. capacity is the maximum amount of grain you could possibly process in a year assuming an unlimited supply is available.

Do you have a traditional facility with a headhouse? No

Do you have any milling equipment?		Yes		**Total capacity** (ton per hour)	**Total milling capacity**
If yes, what type(s)?	Hammermill	Yes	----->	25.7	26 ton per hour
	Flaker	No	----->		225,132 ton per year
	Cracker	No	----->		

Do you do pellet cooling? Yes
If yes, what is your pellet cooling capacity? 25.7 (ton per hour)

Do you clean the grain at some point? Yes
If yes, what is the total grain cleaning capacity? 25.7 ton per hour

Do you have 1 or more grain dryers?		Yes		**Total capacity** (ton per hour)	**Drying Capacity**
If yes, what type(s)?	Rack dryer	Yes	----->	25.7	26 ton per hour
	Rack dryer with self cleaning screen (<50 mesh)	No	----->		225,132 ton per year
	Column dryer	No	----->		

What you need to know about the calculations:

1) In the table below, potential emissions are calculated based on your entries above. You can account for actual quantities processed when you calculate actual emissions on the next tab.

2) The emissions from the headhouse and handling are calculated each time the grain is elevated. In potential emission calculations, as shown in the table below, it is assumed that the maximum capacity of grain is received, then elevated for storage, then elevated again for shipping. In addition, the grain is assumed to be elevated again after cleaning and after drying, if those activities take place at the facility. Emissions from storage bin vents occur when grain is put into storage bins or silos after it is received, after cleaning, and after drying. This is the method of calculation prescribed by EPA in AP-42, section 9.9.1.3.

3) Emissions control capture efficiency cannot be used to calculate your potential emissions. Therefore the control efficiency is set at zero, or no control. You can enter control efficiencies on the actual emissions tab.

Feed mill potential emissions

Source unless otherwise noted: EPA AP-42 Chapter 9.9.1

a		b	c	d	e	f	g	h	h	i
Activity		**Maximum Capacity** (tons/year) 225000.0	**PM Control Efficiency** (% control)	**PM Emission Factor** (lb/ton)	**PM Emissions** (tons/year) b*d/2000	**PM_{10} Control Efficiency** (% control)	**PM_{10} Emission Factor** (lb/ton)	**PM_{10} Emissions** (ton/year) b*g/2000	**$PM_{2.5}$ Emission Factor** (lb/ton)	**$PM_{2.5}$ Emissions** (ton/year) b*h/2000
Grain Receiving		225000.0	0.00%	0.017	1.91	0%	0.0025	0.28	0.0025	0.28
Feed Shipping		225000.0		0.0033	0.37		0.0008	0.09	0.0008	0.09
Milling	Hammermill[1]	225000.0		0.768	86.34		0.384	43.17	0.384	43.17
	Flaker[2]	0.0		0.75	0.00		0.375	0.00	0.375	0.00
	Cracker[2]	0.0		0.12	0.00		0.06	0.00	0.06	0.00
Pellet Cooler[3]		225000.0		1.65	185.63		0.825	92.81	0.825	92.81
Headhouse & Grain Handling[4]		0.0		0.061	0.00		0.034	0.00	0.0058	0.00
Grain Cleaning (internal vibrating[5])		225000.0		0.375	42.19		0.095	10.69	0.016	1.80
Storage Bin (vent)		900000.0		0.025	11.25		0.0063	2.84	0.0011	0.50
Grain Drying	Rack	225000.0		3	337.50		0.75	84.38	0.13	14.63
	Rack (<50mesh)	0.0		0.47	0.00		0.12	0.00	0.02	0.00
	Column	0.0		0.22	0.00		0.055	0.00	0.0094	0.00
Total tons emissions (excluding combustion from dryers)					**665.19**			**234.25**		**153.28**

[1] Emission factor for hammermill is an average of back-calculated values from AP-42 Table 9.9.1-2, which provides a cyclone-controlled emission factor and a baghouse-controlled emission factor. A cyclone was assumed to be 80% efficient, and a baghouse was assumed to be 99% efficient; from Minn. R. 7011.0070.

[2] Emission factor is an average of back-calculated values from AP-42 Table 9.9.1-1, which provides a cyclone-controlled emission factor. A cyclone was assumed to be 80% efficient; from Minn. R. 7011.0070.

[3] Emission factor is an average of back-calculated values from AP-42 Table 9.9.1-2, which provides a cyclone-controlled emission factor and a high-efficiency cyclone-controlled emission factor. A cyclone was assumed to be 80% efficient, a high-efficiency cyclone was assumed to be 90% efficient; from Minn. R. 7011.0070.

[4] Legs, conveyors, belts, distributor, scale, enclosed cleaners, etc.

[5] Internal Vibrating; Emission factor is an average of back-calculated values from AP-42 Table 9.9.1-1 (4/03), which provides a cyclone-controlled emission factor. A cyclone was assumed to be 80% efficient; from Minn. R. 7011.0070.

Attachment B

Feed Mill Actual Emissions

Air emissions for feed mills - Actual emissions

What you need to know about the calculations:

1) In the table below, enter in the blue cells the actual quantities of product received, loaded out, milled, cleaned, and dried during the past 12 months.

2) The emissions from the headhouse and handling are calculated each time the grain is elevated. In potential emission calculations, as shown in the table below, it is assumed that the maximum capacity of grain is received, then elevated for storage, then elevated again for shipping. In addition, the grain is assumed to be elevated again after cleaning and after drying, if those activities take place at the facility. Emissions from storage bin vents occur when grain is put into storage bins or silos after it is received, after cleaning, and after drying. This is the method of calculation specified by EPA in AP-42, section 9.9.1.3.

3) Enter the appropriate particulate matter (PM) control efficiencies for PM and PM10. Control efficiency is the percent of pollutant captured by the control equipment, such as a cyclone or filters. You may assume 0% control. Otherwise, the percent control for the different types of control equipment is listed in Minn. R. 7011.0070 and is based on whether emissions are captured through a total enclosure, a certified hood, or an uncertified hood. See the requirements for certified hoods (Minn. R. 7011.0072) and for requirements for maintenance, monitoring, and recordkeeping for control equipment (Minn. R. 7011.0075 and 0080).[1, 2, 3, 4]

Feed mill actual emissions — Source unless otherwise noted: EPA AP-42 Chapter 9.9.1

a **Activity**		b **Maximum Capacity** (tons/year)	c **PM Control Efficiency**[1] (% control)	d **PM Emission Factor** (lb/ton)	e **PM Emissions** (tons/year) b*d*(1-c)/2000	f **PM_{10} Control Efficiency**[1] (% control)	g **PM_{10} Emission Factor** (lb/ton)	h **PM_{10} Emissions** (ton/year) b*g*(1-f)/2000	h **$PM_{2.5}$ Emission Factor** (lb/ton)	i **$PM_{2.5}$ Emissions** (ton/year) b*h*(1-f)/2000	Controlled By
Grain Receiving		225000.0	99%	0.017	0.02	93%	0.0025	0.02	0.0025	0.02	Dust Collector
Grain Loadout		225000.0	99%	0.0033	0.01	93%	0.0008	0.01	0.0008	0.01	Baghouses
Milling	Hammermill[5]	225000.0	99%	0.768	3.02	93%	0.384	3.02	0.384	3.02	Baghouses
	Flaker[6]	0.0	0%	0.75	0.00	0%	0.375	0.00	0.375	0.00	
	Cracker[6]	0.0	0%	0.12	0.00	0%	0.06	0.00	0.06	0.00	
Pellet Cooler[7]		225000.0	80%	1.65	37.13	60%	0.825	37.13	0.825	37.13	Cyclones
Headhouse & Grain Handling[8]		0.0	0%	0.061	0.00	0%	0.034	0.00	0.0058	0.00	
Grain Cleaning (internal vibrating[9])		225000.0	99%	0.375	0.75	93%	0.095	0.75	0.016	0.13	Dust Collector
Storage Bin (vent)		675000.0	99%	0.025	0.15	93%	0.0063	0.15	0.0011	0.03	Fabric Filters
Grain Drying	Rack	225000.0	99%	3	5.91	93%	0.75	5.91	0.13	1.02	Dust Collector
	Rack (<50mesh)	0.0	99%	0.47	0.00	93%	0.12	0.00	0.02	0.00	
	Column	0.0	0%	0.22	0.00	0%	0.055	0.00	0.0094	0.00	
Total Emissions (excluding combustion from dryers, if applicable)					**46.98**			**46.98**		**41.35**	

Below information can be found on the Minnesota Revisors website:

[1] Control efficiencies are listed in Minn. R. 7011.0070. https://www.revisor.mn.gov/rules/?id=7011.0070

[2] Certified hood requirements are listed in Minn. R. 7011.0072 https://www.revisor.mn.gov/rules?id=7011.0072

[3] Requirements for control equipment are listed in Minn. R. 7011.0075 https://www.revisor.mn.gov/rules?id=7011.0075

[4] Monitoring and recordkeeping for controls is in Minn. R. 7011.0080 https://www.revisor.mn.gov/rules?id=7011.0080

[5] Emission factor for hammermill is an average of back-calculated values from AP-42 Table 9.9.1-2, which provides a cyclone-controlled emission factor and a baghouse-controlled emission factor. A cyclone was assumed to be 80% efficient, and a baghouse was assumed to be 99% efficient; from Minn. R. 7011.0070.

[6] Emission factor is an average of back-calculated values from AP-42 Table 9.9.1-1, which provides a cyclone-controlled emission factor. A cyclone was assumed to be 80% efficient; from Minn. R. 7011.0070.

[7] Emission factor is an average of back-calculated values from AP-42 Table 9.9.1-2, which provides a cyclone-controlled emission factor and a high-efficiency cyclone-controlled emission factor. A cyclone was assumed to be 80% efficient, a high-efficiency cyclone was assumed to be 90% efficient; from Minn. R. 7011.0070.

[8] Legs, conveyors, belts, distributor, scale, enclosed cleaners, etc.

[9] Internal Vibrating; Emission factor is an average of back-calculated values from AP-42 Table 9.9.1-1 (4/03), which provides a cyclone-controlled emission factor. A cyclone was assumed to be 80% efficient; from Minn. R. 7011.0070.

Attachment C

Natural Gas (NG) Combustion Emissions Summary

Air emissions from natural gas grain dryers

Natural gas combustion (less than 100 million Btu per hour)
If you have a boiler with a rating of more than 100 million Btu per hour, different emission factors must be used (see EPA AP-42 Chapter 1.4).

What is the total maximum rated heat input for your natural gas units?	166999600	Btu per hour	(Check your units!)
In the previous 12 months, how many cubic feet of gas were actually used?	186300000	cu ft/year	

Natural gas potential and actual emissions

Pollutant	a GWP[1]	b Dryer hourly natural gas usage[2] (cu ft/hr) (Btu/hr) / (1020 Btu/cu ft)	c Actual natural gas burned (cu ft/yr)	d Hours in a Year (hr/yr) 24 hrs/day * 365 days/yr	e Emission Factor (lbs/cu ft)	Potential Emissions (ton/yr) (b * d * e) / 2000	Actual Emissions (tons/yr) (c * e) / 2000	Potential From Process	Potential From HVAC	Actual From Process	Actual From HVAC
		163725.10	186300000.00	8760	by pollutant						
Criteria air pollutants							Source: EPA AP-42 Chapter 1.4				
PM					0.0000076	**5.45**	**0.71**	3.75	1.70	0.49	0.22
PM10					0.0000076	**5.45**	**0.71**	3.75	1.70	0.49	0.22
PM2.5					0.0000076	**5.45**	**0.71**	3.75	1.70	0.49	0.22
SOx					0.0000006	**0.43**	**0.06**	0.30	0.13	0.04	0.02
NOx					0.0001	**71.71**	**9.32**	49.34	22.38	6.41	2.91
VOC					0.0000055	**3.94**	**0.51**	2.71	1.23	0.35	0.16
CO					0.000084	**60.24**	**7.82**	41.44	18.80	5.38	2.44
Lead					0.0000000005	**0.00**	**0.00**	0.00	0.00	0.00	0.00
Greenhouse gas emissions							Source: 40 CFR 98, Subp. C, Table C-1 and C-2				
CO_2[2]	1				0.120	**86067.38**	**11179.75**	59211.41	26855.97	7691.28	3488.47
CH_4[2]	25				0.00000226	**1.62**	**0.21**	1.12	0.51	0.14	0.07
N_2O[2]	298				0.00000023	**0.16**	**0.02**	0.11	0.05	0.01	0.01
				GHG Total (CO_2e)[3]		**86156.27**	**11191.30**	**59212.64**	**26856.53**	**7691.44**	**3488.54**
Hazardous air pollutants							Source: EPA AP-42 Chapter 1.4				
Benzene					0.0000000021	**0.0015**	**0.0002**	0.00	0.00	0.00	0.00
Formaldehyde					0.000000075	**0.0538**	**0.0070**	0.04	0.02	0.00	0.00
Hexane					0.0000018	**1.2908**	**0.1677**	0.89	0.40	0.12	0.05
Naphthalene					0.00000000061	**0.0004**	**0.0001**	0.00	0.00	0.00	0.00
Toluene					0.0000000034	**0.0024**	**0.0003**	0.00	0.00	0.00	0.00
Arsenic					0.00000000020	**0.0001**	**0.0000**	0.00	0.00	0.00	0.00
Beryllium					0.000000000012	**0.0000**	**0.0000**	0.00	0.00	0.00	0.00
Cadmium					0.0000000011	**0.0008**	**0.0001**	0.00	0.00	0.00	0.00
Chromium					0.0000000014	**0.0010**	**0.0001**	0.00	0.00	0.00	0.00
Cobalt					0.000000000084	**0.0001**	**0.0000**	0.00	0.00	0.00	0.00
Manganese					0.00000000038	**0.0003**	**0.0000**	0.00	0.00	0.00	0.00
Mercury					0.00000000026	**0.0002**	**0.0000**	0.00	0.00	0.00	0.00
Nickel					0.0000000021	**0.0015**	**0.0002**	0.00	0.00	0.00	0.00
Selenium					0.000000000024	**0.0000**	**0.0000**	0.00	0.00	0.00	0.00
				HAP total		**1.3530**	**0.1757**	**0.93**	**0.42**	**0.12**	**0.05**

[1] Global Warming Potential from 40 CFR Part 98, Subpart A, Table A-1

[2] CO_2e = carbon dioxide equivalents

[3] See insignificant activities at Minn. R. 7007.1300 and on the 'Permits & Requirements' tab. Minn. R. 7007.1300

Notes: Actual emissions are based on total NG usage from 2023
Emissions are ratioed between units based on unit maximum heat capacity.