

July 29, 2020

Mr. Ronald Gore Alabama Department of Environmental Management Natural Resources Section Air Division 1400 Coliseum Blvd. Montgomery, Alabama 36110



Re: Construction Permit Application for New Animal Feed Ingredients Plant Pilgrim's Pride Corporation

Gadsden, Alabama

Mr. Gore,

Pilgrim's Pride Corporation (Pilgrim's) is planning to construct a new animal feed ingredient production facility in the city of Gadsden, Etowah County, Alabama. Construction will occur at a greenfield site within Gadsden city limits. Operations will be classified under primary SIC Code 2077 – Animal Fats and Oils. The facility will receive poultry byproducts via truck. The raw materials will be processed through cooking and drying processes to recover the proteins and produce finished poultry meals and poultry fat. These end products will be loaded onto trucks and shipped offsite to animal feed manufacturers. The process heat used in cooking and drying operations will be provided by onsite natural gas fired boilers.

Attached is one (1) original and one (1) copy of the completed air permit application for the construction of emission sources at the proposed Gadsden Facility. The air permit application packet contains details of these systems.

Please note that the boilers will be "gas-fired boilers" as defined under 40 CFR 63, Subpart JJJJJJ (NESHAP for Industrial Commercial and Institutional Area Sources), and therefore will not be subject to the requirements of 40 CFR 63, Subpart JJJJJJ. The boilers will be subject to the requirements of 40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units).

It is our understanding that Pilgrim's will be billed for emission fees after ADEM has defined the actual number of air permits required for the Facility.

Please note that portions of this application, specifically Forms 105, Attachment B and Attachment F, contain confidential business information and we request this information not be publicly available. Redacted and protected copies of these documents are included herein. Please refer to the confidentiality request letter in this application.

Mr. Ronald Gore July 29, 2020 Page 2

If you have any questions, please contact Barry Griffith at (479) 263-9611 (barry.griffith@pilgrims.com) or Trent Samples at (770) 844-0037 (tsamples@wheeinc.com).

Sincerely,

Pilgrim's Pride Corporation

mh

Mark Glover

Head of By-Products/MSC

Cc: Mr. Barry Griffith (Pilgrim's)

Mr. Dave Townsend (Pilgrim's) Mr. Trent Samples (WHEE, Inc.)

Title V Permit Application Gadsden Animal Feed Ingredients Plant



Pilgrim's Pride Corporation Gadsden, Alabama

RECEIVED

JUL 3 1 2020

ADEMAIR DIVISION

July 28, 2020

Title V Permit Application

Table of Contents

Confidentiality Request

Project Narrative

ADEM Forms

- Form 103
- Form 104 RTO Combustion Information
- Form 104 Boiler #1
- Form 104 Boiler #2
- Form 104 Boiler #3
- Form 105 Animal Feed Ingredient Processing (Redacted)
 - o Form 110 Air Washer
 - Form 110 RTO
 - o Form 110 Scrubber #1
 - o Form 110 Scrubber #2
 - o Form 110 Scrubber #3
- Form 105 Meal Loadout Operations
- Form 108 Diesel AST

Attachments

Attachment A – Location Map

Attachment B – Emissions Inventory (Redacted)

Attachment C – Process Flow Diagrams (Redacted)

Attachment D – Site Map

Attachment E – Manufacturer Information

Attachment F – Emission Factors and References (Redacted)

Attachment G – Federal and State Regulations

Attachment H – Compliance Plan and Certification

Attachment I – Trivial and Insignificant Activities List

Protected/Confidential Documents

Form 105 – Rendering Operations (Confidential)

Attachment B – Emissions Inventory (Confidential)

Attachment C - Process Flow Diagram (Confidential)

Attachment F – Emission Factors and References (Confidential)



July 28, 2020

Alabama Department of Environmental Management Natural Resources Section Air Division 1400 Coliseum Blvd. Montgomery, Alabama 36110

Re: Confidential Business Information and Confidentiality Request Pilgrim's Pride Corporation – Gadsden Rendering Plant

To Whom It May Concern,

Pilgrim's Pride Corporation formally requests that portions of this application, specially Form 105 – Animal Feed Ingredient Processing, Attachment B – Emission Inventory, Attachment C – Process Flow Diagram and Attachment F – Emission Factors and References, be considered as confidential business information and not made publicly available. Applicable pages of these forms and Attachments are marked Confidential.

These "Confidential" forms and Attachments contain proprietary engineering data, internal engineering stack testing data and plant production capacity information. This process information constitutes a trade secret because this information and data derives significant economic value from not being generally known to our competitors in a highly competitive industry. The global marketplace requires that knowledge of our production capacity remain unknown to the general public. A public (redacted) version of these forms and attachments are also provided.

Sincerely,

Pilgrim's Pride Corporation

Mul Mark Glover

Head of By-Products/MSC

Pilgrim's Pride Corporation Gadsden, AL Animal Feed Ingredients **Project Narrative**

Facility and Process Description

Pilgrim's Pride Corporation (Pilgrim's) will be constructing a new animal feed ingredients facility in the city of Gadsden, Etowah County, Alabama. Construction will occur at a greenfield site. Operations will be classified under primary SIC Code 2077 – Animal Fats and Oils. The facility will receive raw chicken meat, bones, feathers, blood and secondary protein nutrients (SPN) via truck. SPN is oil/grease recovered from wastewater pretreatment operations at poultry processing facilities. The raw materials will be processed through cooking and drying processes to produce the following finished products: poultry meals, poultry fat and feather meal (animal feed ingredients). These end products will be loaded onto trucks and shipped offsite to animal feed manufacturers. The process heat used in cooking and drying operations will be provided by onsite natural gas fired boilers.

Poultry Byproducts Processing

Raw chicken meat, bones and birds that were dead-on-arrival (DOA) will be received in trailers. Upon arrival, excess water is drained from trailers and will be treated by the onsite wastewater treatment system. The raw materials will be dumped into the appropriate holding bins before being mixed, blended and conveyed into a multi-stage evaporator. DOA birds are hydrolyzed before blending with the other byproducts. After the evaporation process, the material will be centrifuged to separate the meal solids and the fat. The solids will be expelled, pressed and ground to form poultry meals. The poultry meal will be conveyed to storage silos. Conveying systems are enclosed and not considered a significant source of emissions. Finished poultry meal will be loaded out into a truck for offsite transport. The fat will be further centrifuged before storage in aboveground fat storage tanks. Finished poultry fat will be pumped from the storage tanks into tanker trailers for offsite transport. Process vapors removed during the heating processes will travel through a water-cooled condenser and the condensed liquids will be treated in the onsite wastewater treatment system prior to discharge to the local publicly owned treatment works

Feather Processing

below.

Raw feathers are received in trailers and dumped into a feather bin. The feathers are conveyed to hydrolyzers and a feather meal dryer. The solids are screened and ground before storage in a feather meal silo before loadout. Conveying systems are enclosed and not considered a significant source of emissions. Water removed during the hydrolyzing process will discharge to the wastewater treatment system. Other process vapors will discharge to the multi-stage evaporator before ultimately discharging to the Air Washer and RTO as described below.

(POTW). Non-condensable vapors will be exhausted to the Air Washer and RTO as described

Blood Processing

Blood will be pumped from tanker trailers into storage tanks. The blood will be processed using coagulators and decanters to recover the solids. The solids will be combined with the feather meal. The moisture removed is discharged to the wastewater treatment system prior to discharge to the POTW. Non-condensable vapors will discharge to the Air Washer and RTO.

Pilgrim's Pride Corporation Gadsden, AL Animal Feed Ingredients Project Narrative

SPN Processing

SPN will be pumped from tanker trailers into storage tanks. The SPN will be screened, cooked and centrifuged to recover materials (i.e., fat) which will be blended into finished products. Noncondensable vapors will discharge to the Air Washer and RTO.

Chicken Meal Processing (Future Process)

The Facility is designed to add a future process referred to as the chicken meal processing line. The process will be similar to the byproduct processing but will produce finished meals and fats that are marketed differently. Non-condensable vapors from this process will be exhausted to the Air Washer and RTO, as these air pollution control devices will be sized to handle this future expansion.

Finished Product Storage and Loadout Operations

Finished meal and fat storage silos/tanks will be vented using pressure/vacuum tank hatches. The hatches remain closed except to open briefly to release excess pressure. The hatches are designed to open at a set point pressure. The storage silos/tanks are not considered significant sources of emissions. The Facility will have two loadout bays: one for poultry fat and one for finished meals. The loadout bays are enclosed buildings except for the truck entrance and exit (similar to a car wash that a truck enters on one side and exits through the other side). All finished meals (both feather meals and poultry meals) will be loaded in the same bay. A truck will drive-in the loadout bay, finished meals will drop out of loadout spouting into the top of the truck, and the truck will drive-out. Loading of finished meals is a potential source of fugitive PM emissions, but will be generally controlled via the building enclosure. The meals will have a significant moisture content (5%-15%) which reduces the potential for airborne "fines" from loadout operations.

Fat will be loaded in fat loadout bay. Fat is loaded into tanker type trailers. Fat loadout operations are not considered a significant source of emissions.

Air Washer and RTO

Pilgrim's plans to install one (1) regenerative thermal oxidizer (RTO #1) to provide control of VOCs and odors produced during rendering operations. Prior to the RTO, the air will be treated by an Air Washer to maximize RTO operation and pollutant control. The Air Washer is a water spray chamber which uses water spray to "knock-down" particulate and other potential pollutants. The water is discharged to the onsite wastewater treatment system. The design water flow rate through the Air Washer is 200 gpm. The design airflow rate of the RTO is 15,000 scfm.

The RTO will provide removal of VOCs (and associated odors), however it is anticipated the RTO will generate emissions of SO₂ and NOx due to oxidation of sulfur compounds (e.g., hydrogen sulfide and other sulfur containing organic compounds) and nitrogenous compounds (e.g., ammonia and amines). The RTO uses two ceramic media chambers which act as heat exchangers before/after the combustion chamber. Process exhaust will pass through ceramic chamber #1 (absorbing heat) prior to the combustion chamber and exhaust through media chamber #2 (releasing heat into the media). After several minutes, the process exhaust will be reversed and enter media chamber #2, pass through the combustion chamber, before exhausting through media chamber #1. The process exhaust will be cycled every several minutes to keep the ceramic heat

Pilgrim's Pride Corporation Gadsden, AL Animal Feed Ingredients Project Narrative

exchangers performing at optimum energy transfer (efficiency). The direction of the airflow is controlled by a set of valves below each media chamber. The combustion chamber is set to a fixed temperature and controlled by a 2.4 mmBtu/hr burner. The burner will fire exclusively natural gas.

Discussion of Back-Up and/or Bypass Operation

In the event that the RTO is down for maintenance or other reason, the airflows from the Air Washer will be diverted through a building air packed-bed scrubber(s). Pilgrim's is requesting an allowance for up to 150 hours per year to utilize the packed-bed scrubbers for backup operation. The emissions from this 150 hour per year operating scenario are included in the **Attachment B** - **Emission Inventory**.

Packed-Bed Scrubbers (Building Air Scrubbers)

Pilgrim's plans to install three (3) packed bed scrubbers (Scrubber #1, Scrubber #2 and Scrubber #3). Scrubber #1 is designed at 100,000 scfm, Scrubber #2 is designed at 100,000 scfm and Scrubber #3 is designed for at 75,000 scfm to collectively treat approximately 275,000 cfm of plant building air. These Scrubbers will keep the production areas under a slight vacuum (negative air pressure) to prevent excessive fugitive emission releases at doorways and other openings. The scrubbers will control building ventilation air, treating it with a scrubbant solution before exhausting the building air to the atmosphere.

Boilers

Pilgrim's plans to install three (3) Boilers, each rated for 1,600 horsepower. The Boilers will have individual capacities of 66.958 mmBtu/hr each (facility-wide total of 200.88 mmBtu/hr) and fire exclusively natural gas as their fuel source. These boilers will provide the process heat and stream needed for processing operations. The Facility is preparing to only burn natural gas and this is considered appropriate emission control to limit GHG's.

Wastewater Treatment System

The Facility's wastewater treatment system is expected to be an insignificant source of fugitive emissions. The wastewater will first be treated a dissolved air flotation (DAF) unit which removes much of the fat; the fat is returned to the process. After the DAF, biological treatment using lagoons will occur before discharging to the local POTW.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (AIR DIVISION)

Facility Number

| Do not Write in This Space | | | | | | | | | |
|----------------------------|---|---|---|----|---|--|--|--|--|
| 3 | 0 | 7 | - | 00 | 5 | | | | |

| CONSTRUCTION/OPERATING PERMIT APPLICATION FACILITY IDENTIFICATION FORM | | | | | | | | |
|---|--|--------|----------------------------------|---------------|--|--|--|--|
| 1. Name of Facility, Firm, or Institution: Pilgrim's Pride Corporation - Gadsden Animal Feed Ingredients Plant | | | | | | | | |
| Facility Physical Location Address | | | | | | | | |
| Street & Number: 3900 Steele Station Road | | | | | | | | |
| City: Gadsden County: Etowah Zip: 35906 | | | | | | | | |
| Facility Mailing Address (If different from above) | | | | | | | | |
| Address or PO Box: | | | | | | | | |
| 7.44.000 01 7 0 20% | , | | | | | | | |
| City: | State: | | Zip: | 1/2 | | | | |
| | Owner's Busine | ss Mai | ling Address | | | | | |
| 2 Owner: Pilgrim's Pride | Corporation | | | | | | | |
| 2. Owner: Pilgrim's Pride | | | | | | | | |
| Street & Number: 1770 Prom | ontory Circle | | City: Greeley | | | | | |
| State: Colorado | State: Colorado Zip: 80634 Telephone: (970) 506-8000 | | | | | | | |
| | Responsible Official's | Busine | ss Mailing Address | | | | | |
| 3. Responsible Official: $^{ m M}$ | ark Glover | | Title: Head of By | y Product/MSC | | | | |
| Street & Number: 1770 Promo | entory Circle | | | | | | | |
| City: Greeley | State: Colora | do | Zip : 80634 | | | | | |
| Telephone Number: (970) 767 | 7-0292 | E-ma | ail Address: mark.glover@pilgrir | ns.com | | | | |
| Plant Contact Information | | | | | | | | |
| 4. Plant Contact: Barry Griffith Title: Project Manager | | | | | | | | |
| Telephone Number: (479) 263 - 9611 E-mail Address: barry.griffith@pilgrims.com | | | | | | | | |
| 5. Location Coordinates: | | | | | | | | |
| UTM | 583617 | E-W | 3758171 | N-S | | | | |
| Latitude/Longitude | 33.960733 | LAT | -86.094972 | LONG | | | | |

| 5 . | Permit app | lication is made for: | | | |
|------------|---------------------------|--|--------------------------|------------------------|-----------------------|
| | ☐Existing so | ource (initial application) | | | |
| | ☐Existing so | ource (permit renewal) | | | |
| | ☐Modificati | on | | | |
| | ☑New source | ce (to be constructed) | | | |
| | ☐Change of | ownership | | | |
| | ☐Change of | location | | | |
| | ☐Other (s | pecify) | | | |
| | If application contractor | n is being made to construct or n | nodify, please provi | de the name and addre | ss of installer or |
| | To be dete | rmined. | | | |
| | | | | | |
| | | Telep | hone | <i>.</i> | |
| | Date cons | truction/modification to begin | Early 2021 | to be completed | Fall 2022 |
| | Permit app | lication is being made to obtai r | n the following type | e permit: | |
| | ☑Air permit | | | | |
| | ☑Major sou | rce operating permit | | | |
| | □Synthetic | minor source operating permit | | | |
| | ☐General p | ermit | | | |
| В. | form does i | e number of each of the following apply to your operation ind | | | |
| | 4 | ed as required. | CECUIDMENT | | |
| | 2 | ADEM 104 - INDIRECT HEATIN | | 2252471011 | |
| | | ADEM 105 - MANUFACTURING | | | |
| | | ADEM 106 - REFUSE HANDLIN | | | |
| | 1 | ADEM 107 - STATIONARY INTE | | | |
| | 1 | ADEM 108 - LOADING, STORA | | | |
| | | ADEM 109 - VOLATILE ORGAN | | RFACE COATING EMIS | SION SOURCES |
| | 4 | ADEM 110 - AIR POLLUTION C | | | |
| | | ADEM 112 - SOLVENT METAL (| | | |
| | | ADEM 438 - CONTINUOUS EMI | SSION MONITORS | | |
| | | ADEM 437 - COMPLIANCE SCH | IEDULE | | |
| 9. | | ture of business: (describe and | | | ssification (SIC) and |
| | | rican Industry Classification Sy lering Poultry By-Products | stem (NAICS) (<u>ww</u> | w.naics.com) code(s)): | |
| | | endering and Meat By-Product Pr | aggging | | |
| | 311013 KG | indering and Weat By-Froduct Fr | ocessing | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

10. For those making application for a synthetic minor or major source operating permit, please summarize each pollutant emitted and the potential facility-wide annual emission rate for the pollutant. Indicate those pollutants for which the facility is major.

| Regulated pollutant | Potential Emissions* (tons/year) | Major source? yes/no |
|---------------------|-------------------------------------|-------------------------|
| | | |
| Sac Attachment B | for omissions informat | ion |
| See Attacriment B | for emissions informat | iion. |
| | | |
| | , | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | - |
| | | |
| | | |

^{*}Potential emissions are either the maximum allowed by the regulations or by permit, or, if there is no regulatory limit, it is the emissions that occur from continuous operation at maximum capacity.

11. For those applying for a major source operating permit, indicate the compliance status by program for each emission unit or source and the method used to determine compliance. Also cite the specific applicable requirement.

Emission unit or source:

(description)

| Pollutant* Standard Program' VOC N/A N/A VOC N/A N/A PM ADEM Code 335-3-404(1) SIP Regulation SOx ADEM Code 335-3-6.05 SIP Regulation PM ADEM Code 335-3-4(.03) SIP Regulation SOx ADEM Code 335-3-4(.03) SIP Regulation 335-3-501(1)(b) Sip Regulation | Fmission | | | * | : | Compliance Status | ce Status |
|---|------------|------------------------|------------------------------|-----------------------|-------------------------------------|-------------------|-----------|
| VOCN/AN/APMADEM Code 335-3-4.04(1)SIP RegulationSOxADEM Code 335-3-5.05SIP RegulationPM/SO2Sulfur content of fuel40 CFR 60, Subpart DcPMADEM Code 335-3-4(.03)SIP RegulationSOxADEM Code 335-3-4(.03)Sip Regulation | Point No. | Pollutant [*] | Standard | Program' | Method used to determine compliance | IN ² | OUT³ |
| SOx ADEM Code 335-3-404(1) SIP Regulation SOx ADEM Code 335-3-505 SIP Regulation PM/SO2 Sulfur content of fuel 40 CFR 60, Subpart Dc PM ADEM Code 335-3-4(.03) SIP Regulation SOx ADEM Code 335-3-4(.03) Sip Regulation 335-3-501(1)(b) | R1 | VOC | N/A | N/A | Routine monitoring of APCD | Yes | |
| SOx ADEM Code 335-3-505 SIP Regulation PM/SO2 Sulfur content of fuel 40 CFR 60, Subpart Dc PM ADEM Code 335-3-4(.03) SIP Regulation SOx ADEM Code 335-3-01(1)(b) SOx ADEM Code Sip Regulation SOx ADEM Code Sip Regulation | R1 | PM | ADEM Code 335-3-404(1) | SIP Regulation | Production record keeping | Yes | |
| PM/SO2 Sulfur content of fuel 40 CFR 60, Subpart Dc PM ADEM Code 335-3-4(.03) SIP Regulation SOx ADEM Code 335-3-501(1)(b) | R1 | SOx | 5-3-505 | SIP Regulation | Routine monitoring of APCD | Yes | |
| SOx ADEM Code 335-3-4(.03) SIP Regulation SOx ADEM Code 335-3-501(1)(b) | B1, B2, B3 | PM/SO2 | Sulfur content of fuel | 40 CFR 60, Subpart Dc | Measure fuel use/record keeping | Yes | |
| SOx ADEM Code Sip Regulation 335-3-5-01(1)(b) | B1, B2, B3 | PM | ADEM Code 335-3-4(.03) | SIP Regulation | Boiler design and proper operation | Yes | |
| APCD = air polluti | B1, B2, B3 | SOx | ADEM Code 335-3-501(1)(b) | Sip Regulation | Boiler design and proper operation | Yes | |
| APCD = air polluti | | | | | | | |
| APCD = air polluti | | 9 | | | | | |
| | | | | | APCD = air pollution control device | | |
| | | | | | | | |
| | | | | | | | |

¹PSD, non-attainment NSR, NSPS, NESHAP (40 CFR Part 61), NESHAP (40 CFR Part 63), accidental release (112(r)),SIP regulation, Title IV, Enhanced Monitoring, Title VI, Other (specify)

²Attach compliance plan

³Attach compliance schedule (ADEM Form-437)

⁴Fugitive emissions must be included as separate entries

12. List all insignificant activities and the basis for listing them as such (i.e., less than the insignificant activity thresholds or on the list of insignificant activities). Attach any documentation needed, such as calculations. No unit subject to an NSPS, NESHAP or MACT standard can be listed as insignificant.

| Insignificant Activity | Basis |
|--|---------------------------|
| | |
| | |
| Please see Attachment I. App | licable activities |
| determination based on comprehens and Insignificant Activities dated S | sive ADEM list of Trivial |
| and Insignificant Activities dated S | September 23, 2009. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | , |

| 13. | List and explain any exemptions from applicable requirements the facility is claiming: |
|----------------------------------|---|
| a. | |
| b. | |
| c. | |
| d. | |
| e. | |
| f. | |
| g. | |
| h. | |
| i. | |
| 14. | List below other attachments that are a part of this application(all supporting engineering calculations must be appended): |
| a. | Attachment A - Location Map |
| b. | Attachment B - Emission Inventory (Public and Confidential Versions) |
| c. | Attachment C - Process Air Flow Diagram |
| d. | Attachment D - Site Plan |
| е. | Attachment E - Manufacturer Information |
| f. | Attachment F - Emission Factors and References (Public and Confidential Versions) |
| g. | Attachment G - Federal and State Regulations |
| h. | Attachment H - Compliance Plan and Certification |
| <u>i.</u> | Attachment I - Trivial and Insignificant Activities List |
| REA TRU I AL FOR APP | ERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER ASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE IE, ACCURATE AND COMPLETE. SO CERTIFY THAT THE SOURCE WILL CONTINUE TO COMPLY WITH APPLICABLE REQUIREMENTS WHICH IT IS IN COMPLIANCE, AND THAT THE SOURCE WILL, IN A TIMELY MANNER, MEET ALL PLICABLE REQUIREMENTS THAT WILL BECOME EFFECTIVE DURING THE PERMIT TERM AND SUBMIT |
| | ETAILED SCHEDULE, IF NEEDED FOR MEETING THE REQUIREMENTS. The control of the |

PERMIT APPLICATION FOR INDIRECT HEATING EQUIPMENT (FUEL BURNING EQUIPMENT)

| | | | - | Do not write in thi | s space |
|----|------------------------------|-------------------|------------------------------|-----------------------|------------------------|
| 1. | Name of facility or organiza | ition: | grim's Pride Corporat | ion - Gadsden Animal | Feed Ingredients Plant |
| 2. | Unit Description (i.e. No. 1 | Power Boiler): | Regenerative Thern | nal Oxidizer (RTO) Co | mbustion |
| | Equipment manufacturer's | s information | | | |
| | Name of manufacturer: | TANN Corpo | oration | | |
| | Model number: | TR1595C | • | | |
| | Rated capacity-input: | 2.4 | (MMBtu/hr.) | | |
| | Boiler type: | Fire tube | Water tube | other(specify): | Thermal Oxidizer |
| | | Manufacture | d date: $\frac{2021/2022}{}$ | | |
| | Prop | osed installatio | n date: Early 2022 | | |
| | Original installa | ation date (if ex | isting): | | |
| | Reconstruction of | | date (if cable): | | |

3. Type of fuel used:

Primary:

| Fuel | Heat Content | Units | Max. % Sulfur | Max. % Ash | Grade No. [fuel oil only] | Supplier [used oil only] |
|-----------------|-----------------|---------------------|------------------|---------------|------------------------------|-----------------------------|
| Coal | | Btu/lb | | | | • |
| Fuel Oil | | Btu/gal | | 9 | | |
| Natural Gas | 1,020 | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

Standby: Not Applicable

| | Heat | | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | ~ |
| Natural Gas | | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

| 4. | Purpose (if multipurpo | se, note p | ercent in | each use category): | | | | | |
|----|--|-------------|----------------|-------------------------|------------------------------|------------------------------|--|--|--|
| | Space heat | % | Power | generation | % Process | heat 100 % | | | |
| | Other (specify): | Fire RTO to | keep con | sistent thermal oxidati | on temperature for pro | per operation. | | | |
| 5. | Normal schedule of ope | eration: | | | | | | | |
| | Hours per day: 24 | | Days per | week: 7 | Weeks per year: | 52 | | | |
| 6. | 6. For each regulated pollutant, describe any limitations on source operation which affects emissions or any | | | | | | | | |
| | ork practice standard (a | | | | | • | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 7. | Fugitive Emissions (atta | ch calcula | ation worl | ksheets): | | | | | |
| | POLLUTANT | | NTIAL SIONS | BASIS OF CALCULATION | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT | | | |
| | | lb/hr | t/yr | | (lb/hr) | (in units of standard) | | | |
| | Particulate | | | | | | | | |
| | Sulfur dioxide | | , | | | | | | |
| | Nitrogen oxides | | | | | | | | |
| | Carbon monoxide | | | | | | | | |
| | VOC's | | | | | | | | |
| | Other | | | | | | | | |
| | - Canor | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 8. | Is there any emission c | ontrol equ | iipment o | n this emission sour | ce? | | | | |
| | ✓Yes ☐No (If "yes", | complete | ADEM Fo | orm 110) | | | | | |
| | *This RTO is air pollution control equipment. | | | | | | | | |

9. Point Emissions (attach calculation worksheets):

| POLLUTANT | POTENTIAL EMISSIONS | | BASIS OF CALCULATION | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT |
|-----------------|------------------------|---------------|-------------------------|------------------------------|------------------------------|
| | lb/hr | t/yr | | (lb/hr) | (in units of standard) |
| Particulate | _ | ee | Burning natural gas | 2.25 | 0.94 lb/mmBtu |
| Sulfur dioxide | | ment A ssions | Burning natural gas | 9.6 | 4 lb/mmBtu |
| Nitrogen oxides | Inve | ntory | Burning natural gas | | |
| Carbon monoxide | | | Burning natural gas | | |
| VOC's | | | Burning natural gas | | |
| Other | | | Burning natural gas | | |
| | | | | | |
| | | | *Emissions from con | mbustion only. | |
| | | | | | |

| 10. | Stack | data: |
|-----|-------|-------|
| | | acce. |

| UTM Coordinate (E-W) | 583323 | (km) | UTM Coordinate (N-S) | 3758359 | (km) | | | |
|---|------------------|------------------|---------------------------|-------------------|----------|--|--|--|
| Latitude | 33.962450 | (LAT) | Longitude | -86.098135 | (LONG) | | | |
| Height above grade | 60 | (feet) | Gas temperature at exit | < or $=$ 50 | (°F) | | | |
| Inside diameter at exit (round) | 2.5 | (feet) | Gas Velocity | < or = 63 | (Ft/Sec) | | | |
| Inside area at exit (not round) | | (sq. feet) | Volume of gas discharge | < or = 18,470 | (ACFM) | | | |
| Base Elevation | 550 | (feet) | GEP Stack Height | | (feet) | | | |
| Are sampling ports availa | ıble? | No (If"yes" | , describe. Draw on sepai | ate sheet if nece | essary): | | | |
| 11. Is this item in compliance w | ith all applicab | le air pollution | rules and regulations? | | | | | |
| ✓ Yes □ No (if "no", a | compliance scl | hedule, ADEM | Form 437, must be attach | ed.) | | | | |
| Name of person preparing application: Melinda Mangiaracina - WHEE, Inc. | | | | | | | | |
| Signature: | 7 | | Date: 7/2 | 28/2020 | | | | |

PERMIT APPLICATION FOR INDIRECT HEATING EQUIPMENT (FUEL BURNING EQUIPMENT)

| | | | - | Do not write in this | space |
|----|--------------------------------|-------------------|-----------------------|-------------------------|-----------------------|
| 1. | Name of facility or organiza | tion: Pils | grim's Pride Corporat | ion - Gadsden Animal Fo | eed Ingredients Plant |
| 2. | Unit Description (i.e. No. 1 I | Power Boiler): | Boiler #1 (1,600 Hp |)) | |
| | Equipment manufacturer's | information | | | |
| | Name of manufacturer: | Victory Energ | gy | | |
| | Model number: | F2-WB-1600- | -S165 | | |
| | Rated capacity-input: | 66.958 | (MMBtu/hr.) | | |
| | Boiler type: | Fire tube | ■ Water tube | other(specify): | |
| | | Manufacture | ed date: 2021/2022 | | |
| | Prop | osed installatio | on date: Early 2022 | | |
| | Original installa | ation date (if ex | kisting): | | |
| | Reconstruction of | | date (if icable): | anness (francisco) | |

3. Type of fuel used:

Primary:

| | Heat | ä | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | |
| Natural Gas | 1,020 | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

Standby: Not Applicable

| | Heat | | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | 1 |
| Natural Gas | | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | 6 | | |
| Other (specify) | | | | | | |

| Other (specify): | % | | r generation | _ % | eat 100 % |
|---------------------------|-----------|----------------|-----------------------|------------------------------|------------------------------|
| ormal schedule of ope | ration: | | | | |
| Hours per day: 24 | | Days per | week: ⁷ | Weeks per year: | 52 |
| For each regulated pol | | | | | ffects emissions or a |
| k practice standard (at | tach add | litional pa | age if necessary): | | |
| Preparing to only burn na | tural gas | and this is | considered appropriat | e emission control to lin | mit GHG's. |
| | | | | | |
| | | * | | | |
| raitivo Emissiana (attac | h coloulu | ation won | liaha ata). | | |
| gitive Emissions (attac | n calcula | ation wor | ksneets): | | |
| POLLUTANT | | NTIAL SIONS | BASIS OF CALCULATION | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT |
| POLLOTAINT | | | CALCOLATION | | |
| | lb/hr | t/yr | | (lb/hr) | (in units of standar |
| Particulate | | | | | |
| Sulfur dioxide | | | | | |
| Nitrogen oxides | | | | | |
| Carbon monoxide | | | | | |
| VOC's | | | | | |
| Other | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

9. Point Emissions (attach calculation worksheets):

| POLLUTANT | POTENTIAL EMISSIONS | | BASIS OF CALCULATION | | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT |
|-----------------|------------------------|-----------|-------------------------|---|---|--|
| | lb/hr | t/yr | | 8 | (lb/hr) | (in units of standard) |
| Particulate | | | | | 14.53 lb/hr ADEM Regulation 335-3-403 | 0.217 lb/mmBTU ADEM Regulation 335-3-403 |
| Sulfur dioxide | S | ee Attacl | nment A - | | 267.8 lb/hr ADEM Regulation 335-3-501(b) | 4.0 lb/mmBTU ADEM Regulation 335-3-501(b) |
| Nitrogen oxides | E | missions | Inventory | | | |
| Carbon monoxide | | | | | | - |
| VOC's | | | | | | |
| Other | | | | | | |
| | | | | | | |
| | , | | | | | |
| | | | | | | |

10. Stack data:

| UTM Coordinate (E-W) | 583398 | (km) | UTM Coordinate (N-S) | 3758401 | (km) |
|---------------------------------|-------------|--------------|--------------------------|-----------------|---------|
| Latitude | 33.962820 | (LAT) | Longitude | -86.097327 | (LONG) |
| Height above grade | ≈ 30 | (feet) | Gas temperature at exit | < or = 350 | (°F) |
| Inside diameter at exit (round) | ≈ 30 | (feet) | Gas Velocity | ≈ 46 | (Ft/Sec |
| Inside area at exit (not round) | | (sq. feet) | Volume of gas discharged | ≈ 19,602 | (ACFM) |
| Base Elevation | 550 | (feet) | GEP Stack Height | | (feet) |
| Are sampling ports avails | blo2 Dvos D | No (If "yes" | dosoribo Draw on sonarat | o shoot if noon | ecany). |

Are sampling ports available? Yes No (If "yes", describe. Draw on separate sheet if necessary):

| ✓ Yes | S No (if "no", a compliance schedule, ADEM Form 437, must be attached.) | | | | | | |
|-------------------------------------|---|-----------|--|--|--|--|--|
| ame of person preparing application | . Melinda Mangiaracina - WHEE, Inc. | | | | | | |
| ignature: MIII A | Date: | 1128/2020 | | | | | |

PERMIT APPLICATION FOR INDIRECT HEATING EQUIPMENT (FUEL BURNING EQUIPMENT)

| | | | | Do not write in this space |
|----|------------------------------|------------------------|--|--|
| ١. | Name of facility or organiza | ition: | grim's Pride Corporati | on - Gadsden Animal Feed Ingredients Plant |
| 2. | Unit Description (i.e. No. 1 | Power Boiler): | Boiler #2 (1,600 Hp |) |
| | Equipment manufacturer's | information | | |
| | Name of manufacturer: | Victory Energ | gy | |
| | Model number: | F2-WB-1600- | S165 | |
| | Rated capacity-input: | 66.958 | (MMBtu/hr.) | |
| | Poilor tuno: | | | |
| | Boiler type: | Fire tube | ■ Water tube | other(specify): |
| | Boller type. | Fire tube Manufacture | | other(specify): |
| | | _ | d date: 2021/2022 | other(specify): |
| | Prop | — Manufacture | d date: 2021/2022 in date: Early 2022 | other(specify): |

3. Type of fuel used:

Primary:

| | Heat | | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | |
| Natural Gas | 1,020 | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

Standby: Not Applicable

| | Heat | | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | |
| Natural Gas | | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

| ☐Space heat | % | Power | generation | % Process h | eat 100 % |
|---------------------------|------------|------------|-----------------------|---------------------------|------------------------|
| Other (specify): | | | | | |
| Normal schedule of ope | ration: | | | | |
| Hours per day: 24 | | Days per | week: ⁷ | Weeks per year: | 52 |
| For each regulated pol | | | | rce operation which a | ffects emissions or an |
| Preparing to only burn no | | | - | a amission control to lin | wit CUC's |
| Preparing to only burn na | iturai gas | and uns is | considered appropriat | e emission control to m | ill GHG s. |
| | | | | | |
| | | | | | |
| Fugitive Emissions (attac | ch calcula | ation worl | ksheets): | | |
| | POTE | NTIAL | BASIS OF | REGULATORY | REGULATORY |
| POLLUTANT | | SIONS | CALCULATION | EMISSION LIMIT | EMISSION LIMIT |
| | lb/hr | t/yr | | (lb/hr) | (in units of standard |
| Particulate | | | | | |
| Sulfur dioxide | | | | | |
| Nitrogen oxides | | | | | |
| Carbon monoxide | | | | | |
| VOC's | | | | | |
| Other | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | I |
| | | <u> </u> | | | |
| | | | | | |

9. Point Emissions (attach calculation worksheets):

| POTENTIAL EMISSIONS | | BASIS CALCULA | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT | |
|---------------------|-------|------------------|------------------------------|---|--|
| | lb/hr | t/yr | | (lb/hr) | (in units of standard) |
| Particulate | | | | 14.53 lb/hr ADEM Regulation 335-3-403 | 0.217 lb/mmBTU ADEM Regulation 335-3-403 |
| Sulfur dioxide | | | hment A - | 267.8 lb/hr ADEM Regulation 335-3-501(b) | 4.0 lb/mmBTU ADEM Regulation 335-3-501(b) |
| Nitrogen oxides | LE | missions | Inventory | | |
| Carbon monoxide | | | | | |
| VOC's | | | | | |
| Other | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

10. Stack data:

| UTM Coordinate (E-W) | 583398 | (km) | UTM Coordinate (N-S) | 3758395 | (km) |
|---------------------------------|--------------|--------------|-----------------------------|-----------------|----------|
| Latitude | 33.962772 | (LAT) | Longitude | -86.097327 | (LONG) |
| Height above grade | ≈ 30 | (feet) | Gas temperature at exit | < or = 350 | (°F) |
| Inside diameter at exit (round) | ≈ 30 | (feet) | Gas Velocity | ≈ 46 | (Ft/Sec) |
| Inside area at exit (not round) | | (sq. feet) | Volume of gas discharged | ≈ 19,602 | (ACFM) |
| Base Elevation | 550 | (feet) | GEP Stack Height | | (feet) |
| Are sampling ports availa | able? ☐Yes ☑ | No (If "yes" | , describe. Draw on separat | e sheet if nece | ssary): |
| | | | | | |

| 1. Is this item in compliance with all applicable air _l | pollution rules and regulations? |
|--|----------------------------------|
|--|----------------------------------|

| ✓ Yes | a compliance schedule, ADEM Form 437, must be attached.) | |
|-------------------------------------|--|--|
| Name of person preparing | application: Melinda Mangiaracina - WHEE, Inc. | |
| Name of person preparing Signature: | Date: 7/28/2020 | |

PERMIT APPLICATION FOR INDIRECT HEATING EQUIPMENT (FUEL BURNING EQUIPMENT)

| | | | - [| | Do no | t write in th | nis space | |
|----|------------------------------|-------------------|----------------------------|---------|------------------|---------------|------------|---------------|
| 1. | Name of facility or organiza | ition: | grim's Pride Corp | oration | ı - Gadso | den Animal | Feed Ingre | edients Plant |
| 2. | Unit Description (i.e. No. 1 | Power Boiler): | Boiler #3 (1,60 | 0 Hp) | | | | |
| | Equipment manufacturer's | sinformation | | | | | | |
| | Name of manufacturer: | Victory Ener | gy | | | | | |
| | Model number: | F2-WB-1600 | -S165 | | | | | |
| | Rated capacity-input: | 66.958 | (MMBtu/hr.) | | | | | |
| | Boiler type: | Fire tube | ■ Water tub | е | othe | r(specify): | , | |
| | | Manufacture | ed date: $\frac{2021/2}{}$ | 022 | | | | |
| | Prop | osed installatio | on date: Early 2 | 2022 | | | | |
| | Original install | ation date (if ex | kisting): | | | | | |
| | Reconstruction | | date (if icable): | | about the second | | | |

3. Type of fuel used:

Primary:

| | Heat | | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | |
| Natural Gas | 1,020 | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

Standby: Not Applicable

| | Heat | | Max. % | Max. % | Grade No. | Supplier |
|-----------------|---------|---------------------|--------|--------|-----------------|-----------------|
| Fuel | Content | Units | Sulfur | Ash | [fuel oil only] | [used oil only] |
| Coal | | Btu/lb | | | | |
| Fuel Oil | | Btu/gal | | | | |
| Natural Gas | | Btu/ft ³ | | | | |
| L. P. Gas | | Btu/ft ³ | | | | |
| Wood | | Btu/lb | | | | |
| Other (specify) | | | | | | |

| Space heat Other (specify): | <u></u> % | Power | generation | % | eat 100 % |
|--|------------|----------------|-----------------------|------------------------------|---------------------------|
| ormal schedule of ope | ration: | | | | |
| Hours per day: 24 | | Days per | week: 7 | Weeks per year: | 52 |
| For each regulated pol | | | | rce operation which a | ffects emissions or a |
| k practice standard (at Preparing to only burn na | | - | | e emission control to lin | nit GHG's |
| repairing to only out in the | iturur gus | | considered appropriat | | int 0110 3. |
| | | | | | |
| | | | | | |
| gitive Emissions (attac | ch calcula | ation work | (sheets): | | |
| | DOTE | ·NITIAI | DAGIC OF | DECLII ATORY | DECLII ATORY |
| POLLUTANT | | NTIAL SIONS | BASIS OF CALCULATION | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT |
| | lb/hr | t/yr | | (lb/hr) | (in units of standa |
| Particulate | ě | | | , | |
| Sulfur dioxide | | | | | |
| Nitrogen oxides | | | | | |
| Carbon monoxide | | | | | |
| VOC's | | | * | | |
| Other | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | - Alain annianian ann | 002 | |
| there any emission co | ntrol eau | aipment o | n this emission sourc | ce: | |

ADEM Form 104 08/19 m3 Page 2 of 3

| 9. | Point Emissions | (attach | calculation | worksheets): |
|----|------------------------|---------|-------------|--------------|
|----|------------------------|---------|-------------|--------------|

| POLLUTANT | | POTENTIAL EMISSIONS | | OF ATION | REGULATORY EMISSION LIMIT | REGULATORY EMISSION LIMIT |
|-----------------|-------|------------------------|----------------|-------------|---|--|
| | lb/hr | t/yr | | | (lb/hr) | (in units of standard) |
| Particulate | | | | | 14.53 lb/hr ADEM Regulation 335-3-403 | 0.217 lb/mmBTU ADEM Regulation 335-3-403 |
| Sulfur dioxide | s | ee Attacl | l hment A - | | 267.8 lb/hr ADEM Regulation 335-3-501(b) | 4.0 lb/mmBTU ADEM Regulation 335-3-501(b) |
| Nitrogen oxides | LE | missions | Inventory | | | |
| Carbon monoxide | | | | | | |
| VOC's | | | | | | |
| Other | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| 1 | n | 2 | ac | L | a | - | ha | |
|---|---|---|----|---|---|----|----|---|
| - | " | | ac | ĸ | п | 21 | 12 | • |

| UTM Coordinate (E-W) | 583398 | (km) | UTM Coordinate (N-S) | 3758390 | (km) |
|---------------------------------|--------------|--------------|------------------------------|------------------|----------|
| Latitude | 33.962725 | (LAT) | Longitude | -86.097327 | (LONG) |
| Height above grade | ≈ 30 | (feet) | Gas temperature at exit | < or = 350 | (°F) |
| Inside diameter at exit (round) | ≈ 30 | (feet) | Gas Velocity | ≈ 46 | (Ft/Sec) |
| Inside area at exit (not round) | | (sq. feet) | Volume of gas discharged | ≈ 19,602 | (ACFM) |
| Base Elevation | 550 | (feet) | GEP Stack Height | | (feet) |
| Are sampling ports availa | able? Tyes V | No (If "ves" | '. describe. Draw on separat | te sheet if nece | essarv): |

Are sampling ports available? □ | Yes □ No (If "yes", describe. Draw on separate sheet if necessary)

| 11. | ıls | s th | าis | item | in | com | plia | nce | with | all | apı | olic | cab | le a | air | loa | luti | on | rul | es | and | rec | ıula | atic | ons | ? |
|-----|-----|------|-----|------|----|-----|------|-----|------|-----|-----|------|-----|------|-----|-----|------|----|-----|----|-----|-----|------|------|-----|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | ☐ No (if "no", a compliance schedule, ADEM Form 437, must be attached.) | | | | | | |
|---------------------------------------|---|-------------|--|--|--|--|--|
| Name of person preparing application: | Melinda Mangiaracina - WHEE, Inc. | | | | | | |
| Signature: MMM M | Date: | 7/ 18 /2020 | | | | | |

PUBLIC/REDACTED

PERMIT APPLICATION FOR MANUFACTURING OR PROCESSING OPERATION

| | Name of firm an amonimation. T | Dilamina 'a Duida | Composition God | Do not write in th | • | |
|----------|---|--|---|--|---|------------------------|
| 1. | Name of firm or organization: $\underline{\underline{I}}$ | riigrim s Pride | Corporation – Gac | isden Animai Feed i | ingredients Plant | |
| 2. | Briefly describe the operation submitted for each type of proc receives input material from, o relationship between the opera- operating scenario. | ess or for mu r provides in | ultiple units of ou out material to, | ne process type. | If the unit or pr n, please indica | ocess te the |
| | Operating scenario number Anii | mal Feed Ingredi | ent Processing | | | |
| | The Facility will receive raw chicken m recovered from wastewater pretreatment and drying processes to recover proteins. These end products will be loaded onto drying operations will be provided by ons | operations at poult and fats to produce trucks and shipped | ry processing facilities the following finished offsite to animal fee | s. The raw materials will be d products: poultry mea | Il be processed throughls, poultry fat and feat | gh cooking ather meal. |
| | Various air ducts will be connected to op pulled through an Air Washer (spray tow process vapors (i.e., the moisture removed | ver) and an RTO | for removal of odoro | us compounds and other | r pollutants. Noncor | ndensable |
| | Attachment C is a process flow diagram | that shows the pro | cesses and emission u | nits that discharge through | gh the Air Washer an | d RTO. |
| | Three (3) Building Air Scrubbers will be 100,000 SCFM; Scrubber #2 –100,000 SC | | | lding air scrubbers are p | packed bed type (Scr | ubber #1 – |
| | In the event of RTO failure or maintenan noncondensable vapors stream to be exha- | | | | | odors and |
| | The emissions estimates include a chicker | n meal line that is p | proposed to be installe | d in the future. | | |
| 3. | Type of unit or process (e.g., calc | ining kiln, cup | oola furnace): | Various heat and | 1 pressure intensive | |
| | processes, including cookers, presses, | centrifuges, etc. | | | | |
| | Make: Various | | Model: | Various | | |
| | Rated process capacity (manufac | cturer's or des | signer's guarante | eed maximum) in p | ounds/hour: | |
| | Manufactured date: 2021/2022 | | | Proposed in | stallation date: | 2022 |
| | | | Oriç | ginal installation da | ate (if existing): | |
| | | | Recor | struction or Modif | ication date (if applicable): | N/A |
| 4. Ho | Normal operating schedule: urs per day: 24 | Days per week: | 5-6 | Weeks per year: | 52 | |
| Pe | ak production season (if any): | | | | | |
| | EM Form 105 08/19 m5 | | | | 1 of 5 | |

PUBLIC/REDACTED

| | | Material | | Proces | s Rate Average (lb/hr) | e Maximum (lb/hr) | Quantity tons/year |
|---------------|---------------------------|-----------------------|---------------------|-------------------------------|---------------------------|----------------------|----------------------------|
| | Poultry Offa | l, Meat, Bones | 3 | | | | |
| | Poultry Bloc | od | | | | | |
| | Poultry Feat | hers | | | | | |
| | SPN/Sludge | | | | | | |
| | Poultry Offa Expansion | l, Meat, Bones | s (Future | | | | |
| 6. | | previously d | | Form ADEN | Max. % | Grade No. | Supplier |
| | 2 200 520 | Content | | Sulfur | Ash | [fuel oil only] | [used oil only] |
| coal uel (| Oil | | Btu/lb Btu/gal | | | | |
| | ral Gas | | Btu/ft³ | | | | |
| . P. (| | | Btu/ft ³ | | | | |
| Vood | | | Btu/lb | | | | |
| the | r (specify) | | | | | | |
| | Proc | f process or lucts | unit: | Qua | antity/year | | Units of production |
| | shed Meals (in ansion) | ncludes future | | | | T | ons |
| Fini | shed Fat (incli | udes future | | | | Т | ons |
| | work pract | ice standard | d (attach add | ditional page h intensity sou | e if necessary | v): | odor/VOC control. If RTO i |
| Proc | | 8 | | | | | |

-86.09817 -86.09765 -86.09772 -86.09739 Coordinates Geographic 33.96247 33.96260 33.96238 33.96262 LAT 3758356 3758376 3758379 3758352 N-S (km) Coordinates

583392

S3

PUBLIC/REDACTED

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Temperature

Discharged

(Feet/Sec)

Opening

(sd. feet)

Opening Round

(Feet)

Round

(ACFM)

(°F)

Exit

Volume of

Gas Exit Velocity

NOT

Diameter

fo

Elevation (Feet)

Height Stack

(Feet)

Grade (Feet)

LONG

E-W (km)

Emissio n Point

Base

GEP

Height Above

M

Inside

Stack

Area if

Inside

< 250

18,470

63

2.5

550

09

583319

RT01

583368

S1

583362

S2

6.7

550

65

 ≈ 60

 $\approx 100,000$

≈48

 ≈ 60

 $\approx 100,000$

 ≈ 48

 ≈ 60

 $\approx 75,000$

 ≈ 20

5.67

550

65

6.7

550

65

| ந் |
|---------------------|
| Ę |
| \subseteq |
| _ |
| 2 |
| 3 |
| 29.92" in |
| S |
| 0 |
| 5 |
| SS |
| es |
| 5 |
| - |
| _ |
| $\overline{\alpha}$ |
| <u>.</u> |
| F - Std pressure is |
| 8°F - SI |
| 68°F - SI |
| is 68°F |
| is 68°F |
| is 68°F |
| ture is 68°F |
| ture is 68°F |
| ture is 68°F |
| ture is 68°F |
| emperature is 68°F |
| emperature is 68°F |
| ture is 68°F |

PUBLIC/REDACTED

11. Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions <u>must be included</u> and calculations must be appended.

| Emission | | | Potential Em | Regulatory Emission Limit | | | |
|----------|------------------|---------|--------------|---------------------------|---------|---------------------|--|
| Point | Pollutants | (lb/hr) | (Tons/yr) | Basis of Calculation | (lb/hr) | (units of standard) | |
| R1 | See Attachment B | | | | | | |
| | | | | | | | |
| | | | | | 4, | | |
| | | | | | | | |
| | | | | | | ** | |
| | | | | | | | |
| | | | w. | | | | |
| | | | | | | | |

| Using a flow di | agram |
|-----------------------------------|-------|
|-----------------------------------|-------|

- (1) Illustrate input of raw materials,
- (2) Label production processes, process fuel combustion, process equipment and air pollution control equipment,
- (3) Illustrate locations of air contaminant release so that emission points under item 10 can be identified.

PUBLIC/REDACTED

| 13. | . Is this unit or pro | cess in compliance with all | applicable air pollution | rules and regulations? | | | | | |
|-----|--|---|---|--|--|--|--|--|--|
| | ⊠Yes □No | | | | | | | | |
| | (if "no", a complia | ance schedule, Form ADEM | l-437 must be complete | ed and attached.) | | | | | |
| 14. | . Does the input material or product from this process or unit contain finely divided materials which could become airborne? | | | | | | | | |
| | ⊠Yes □No | | | | | | | | |
| 15. | 5. If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems? | | | | | | | | |
| | ☐Yes ⊠No | | | | | | | | |
| | List storage piles or other facility (if any): N/A | | | | | | | | |
| | Type of materia | Particle size (diameter or screen size) | Pile size or facility (average tons) | Methods utilized to control fugitive emissions (wetted, covered, etc.) | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| - 1 | | | | | | | | | |
| - | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | $\Delta i L I$ | paring application: Melind | da Mangiaracina - WHEE, I | nc. | | | | | |
| | me of person prep gnature: | paring application: Melind | da Mangiaracina - WHEE, I | nc. Date: 7/28/2026 | | | | | |



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

| - (ADEM Use Only) | | | | | | |
|--|--|---|-------------------------|--|--|--|
| Name of facility or organization Pilgri | m's Pride Corporation - G | adsden Animal Feed Ir | ngredients Plant | | | |
| . Type of pollution control device: (if mo submitted for each specific device.) | re than one, check each | n; however, separate | forms are to be | | | |
| ☐Settling chamber ☐ | Electrostatic precipitat | or | | | | |
| ☐Afterburner ☐ | Baghouse | | | | | |
| ☐Cyclone ☐ | ■ Multiclone | | | | | |
| ☐Absorber | Adsorber | | | | | |
| ☐Condenser ☑ | Wet Suppression | | | | | |
| Wet scrubber (kind): | | | | | | |
| Stage 1 - Vapor balance (type): | | | | | | |
| Other (describe): | ir Washer (spray tower us | ing water without cher | nical scrubbant) | | | |
| Name of manufacturer TANN | talled or is to be installe | Model No | Attachment E TO 1). | | | |
| Name of manufacturer TANN Emission source to which device is inst | talled or is to be installe | Model No | TO 1). | | | |
| Name of manufacturer TANN Emission source to which device is inst Plant rendering operations, the air washer p | talled or is to be installe | d: pors prior to the RTO (R | TO 1). | | | |
| Name of manufacturer TANN Emission source to which device is inst Plant rendering operations, the air washer p | talled or is to be installed or installed or is to be installed or | d: pors prior to the RTO (R Pollutants Removed | TO 1). | | | |
| Name of manufacturer TANN . Emission source to which device is instead Plant rendering operations, the air washer parameters: | talled or is to be installed or is to be installed or etreats operating plant var | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 | TO 1). | | | |
| Name of manufacturer TANN Emission source to which device is instant Plant rendering operations, the air washer parameters: | poretreats operating plant variable. Pollutant #1 TRS | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN Emission source to which device is instant Plant rendering operations, the air washer parameters: Emission parameters: | Pollutant #1 TRS | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN . Emission source to which device is instant Plant rendering operations, the air washer parameters: 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 TRS | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN . Emission source to which device is instead Plant rendering operations, the air washer process. 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled Designed Manufacturer's guaranteed | Pollutant #1 TRS | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN . Emission source to which device is instead Plant rendering operations, the air washer process. 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled Designed Manufacturer's guaranteed | Pollutant #1 TRS Pr | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN Emission source to which device is instance Plant rendering operations, the air washer process. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 TRS Pr Pr | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN Emission source to which device is instead Plant rendering operations, the air washer process. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 TRS Pr Pr | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |
| Name of manufacturer TANN Emission source to which device is instemed Plant rendering operations, the air washer process. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 TRS Pr Adard) | d: pors prior to the RTO (R Pollutants Removed Pollutant #2 Nitrogen Compounds | TO 1). Pollutant #3 PM | | | |

ADEM Form 110 08/19 m4 Page 1 of 3

6. Gas conditions:

| | Inlet | Intermediate Locations | Outlet |
|---------------------------------|-----------|---------------------------|-----------|
| Volume (SDCFM, 68°f, 29.92" hg) | ≈ 15,000 | | ≈ 15,000 |
| (ACFM, existing conditions) | ≈ 16,750 | | ≈ 16, 050 |
| Temperature (°F) | ≈ 130 | | ≈ 105 |
| Velocity (ft/sec) | | | |
| Percent moisture | Saturated | | Saturated |

| ι | JTM Coordinate (E-W) | 583323 | (km) | UTM Coordinate (N-S) | 3758359 | (km) |
|---------------------|--|---|---|--|---------------|------------|
| ι | _atitude | 33.962450 | _ (LAT) | Longitude | -86.098135 | _ (LONG) |
| H | Height above grade | 25 | _ (feet) | Gas temperature at exit | N/A | (°F) |
| | nside diameter at exit round) | 2.67 | _ (feet) | Gas Velocity | | _ (Ft/Sec) |
| | nside area at exit (not ound) | | (sq. feet) | Volume of gas discharged | N/A | (ACFM) |
| | | 550 | _ | 3 | | - |
| . Pr fa | | | | GEP Stack Height m process, each control de cted pollutants, and locatio | | |
| Pr fa Er | rovide a flow diagram w n or blower, each emis nclosed are: Blueprints ☑Manufacturer's litera | which includes ssion point, ex ture | gas exit from kits for collect □Part □Size | m process, each control de cted pollutants, and locatio ticle size distribution repor e-efficiency curves | n of sampling | of by-pas |
| Pr fa Er [| rovide a flow diagram w n or blower, each emis nclosed are: Blueprints | which includes ssion point, ex ture | gas exit from kits for collect □Part □Size | m process, each control de cted pollutants, and locatio ticle size distribution repor | n of sampling | of by-pas |
| Pr fa Er [| rovide a flow diagram wan or blower, each emisticclosed are: Blueprints Manufacturer's litera Emissions test of existicclosed | which includes ssion point, ex ture sting installati | gas exit from kits for collect Part Size on Fan | m process, each control de cted pollutants, and locatio ticle size distribution repor e-efficiency curves | n of sampling | of by-pas |

| | Solid waste | Solid waste | Liquid waste | Liquid waste |
|---------------------------|-----------------------|----------------------------------|--------------|--------------|
| Volume | | | | |
| Composition | | | | |
| ls waste hazardous? | | | | |
| Method of disposal | | | | |
| Final destination | | | | |
| collected air pollutan | ts are recycled, desc | cribe: | | |
| | ts are recycled, desc | eribe: | | |
| N/A Name of person prepa | | eribe: Melinda Mangiaracina - | WHEE, Inc. | |

12. By-pass (if any) is to be used when:

N/A



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

| - (ADEM Use Only) | | | |
|---|--------------------------------|---|-----------------------|
| Name of facility or organization Pilgrim's I | Pride Corporation - G | adsden Animal Feed | Ingredients Plant |
| . Type of pollution control device: (if more th submitted for each specific device.) | an one, check each | n; however, separate | e forms are to be |
| ☐Settling chamber ☐Elec | trostatic precipitat | or | |
| ☐Afterburner ☐Bag | house | | |
| ☐Cyclone ☐Mult | iclone | | |
| ☐ Absorber ☐ Adso | orber | | |
| ☐Condenser ☐Wet | Suppression | | |
| Wet scrubber (kind): | | | |
| Stage 1 - Vapor balance (type): | | | |
| Other (describe): Regene | erative Thermal Oxid | izer (RTO 1) | |
| Name of manufacturer TANN Corporation | | Nodel No | 1595C |
| Name of manufacturer TANN Corporation. Emission source to which device is installed. | | Nodel No | |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing | | d: | |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing | d or is to be installed | d: Pollutants Remove | ed |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: | d or is to be installed | Pollutants Remove | Pollutant #3 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: | d or is to be installed | Pollutants Remove | Pollutant #3 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) | d or is to be installed | Pollutants Remove | Pollutant #3 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 | Pollutants Remove Pollutant #2 TRS to SO2 | Pollutant #3 N to NO2 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 VOC 3.36 < 3.36 | Pollutants Remove Pollutant #2 TRS to SO2 | Pollutant #3 N to NO2 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled Designed Manufacturer's guaranteed | Pollutant #1 VOC 3.36 < 3.36 | Pollutants Remove Pollutant #2 TRS to SO2 | Pollutant #3 N to NO2 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 VOC 3.36 < 3.36 | Pollutants Remove Pollutant #2 TRS to SO2 | Pollutant #3 N to NO2 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled Designed Manufacturer's guaranteed Required by regulation Manufacturer's guaranteed Manufacturer's guaranteed | Pollutant #1 VOC 3.36 < 3.36 | Pollutants Remove Pollutant #2 TRS to SO2 | Pollutant #3 N to NO2 |
| Name of manufacturer TANN Corporation Emission source to which device is installed Animal feed ingredient processing 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 VOC 3.36 < 3.36 | Pollutants Remove Pollutant #2 TRS to SO2 | Pollutant #3 N to NO2 |

ADEM Form 110 08/19 m4 Page 1 of 3

6. Gas conditions:

| | Inlet | Intermediate Locations | Outlet |
|---------------------------------|-----------|---------------------------|-----------|
| Volume (SDCFM, 68°f, 29.92" hg) | ≈ 15,000 | | ≈ 15,000 |
| (ACFM, existing conditions) | ≈ 16,050 | | ≈ 20,300 |
| Temperature (°F) | ≈ 105 | | ≈ 250 |
| Velocity (ft/sec) | ≈ 63 | | ≈ 63 |
| Percent moisture | Saturated | | Saturated |

| Pressure drop across device: $\underline{} \approx 20$ (inches H ₂ 0) | | | | | | | | |
|---|--|-----------|------------|-----------------------------|---------------|----------|--|--|
| 7. | Stack dimensions: | | | | | | | |
| | UTM Coordinate (E-W) | 583323 | (km) | UTM Coordinate (N-S) | 3758359 | (km) | | |
| | Latitude | 33.962450 | (LAT) | Longitude | -86.098135 | (LONG) | | |
| | Height above grade | 60 | (feet) | Gas temperature at exit | < or = 219 | (°F) | | |
| | Inside diameter at exit (round) | 2.5 | (feet) | Gas Velocity | < or = 63 | (Ft/Sec) | | |
| | Inside area at exit (not round) | | (sq. feet) | Volume of gas discharged | < or = 18,470 | (ACFM) | | |
| | Base Elevation | 550 | (feet) | GEP Stack Height | | (feet) | | |
| Provide a flow diagram which includes gas exit from process, each control device, location of by-pass, fan or blower, each emission point, exits for collected pollutants, and location of sampling ports. | | | | | | | | |
| 9. Enclosed are: | | | | | | | | |
| | ☐Blueprints ☐Particle size distribution report | | | | | | | |
| | ✓ Manufacturer's literature | | | | | | | |
| | ☐Emissions test of existing installation ☐Fan curves | | | | | | | |
| □Other | | | | | | | | |
| 10. If the pollution control device is of unusual design, please provide a sketch of the device. | | | | | | | | |
| 11. List below the important operating parameters for the device. (For example: air/cloth ratio and fabric type, weight, and weave for baghouse; throat velocity and water use rate for a venturi scrubber; etc.) Operating temperature of combustion chamber = 1,400 °F - 1,600 °F. | | | | | | | | |

| Volume Composition Is waste hazardous? Method of disposal | The packed-bed bui limited to 150 hours | lding air scrubbers are s per year. | to be used when the R | TO is down. Backup op | eration/by-pass is t |
|---|---|--|-----------------------|-----------------------|----------------------|
| Volume Composition Is waste mazardous? Method of disposal Final destination collected air pollutants are recycled, describe: | 3. Disposal of collected | d air pollutants: N/A | A | | |
| Composition Is waste hazardous? Method of disposal Final destination Collected air pollutants are recycled, describe: | | Solid waste | Solid waste | Liquid waste | Liquid waste |
| s waste hazardous? Method of disposal Final destination collected air pollutants are recycled, describe: | Volume | * | | | |
| Method of disposal Final destination collected air pollutants are recycled, describe: | Composition | | | | |
| Final destination collected air pollutants are recycled, describe: | ls waste hazardous? | | | | |
| collected air pollutants are recycled, describe: | Method of disposal | | | | |
| · · · · · · · · · · · · · · · · · · · | Final destination | | | | |
| | collected air pollutant | s are recycled, desc | ribe: | | |
| | | | | | |
| | | | | | |
| | | | | | |

Melinda Mangiaracina - WHEE, Inc.

ADEM Form 110 08/19 m4

Name of person preparing application



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

| - (ADEM Use Only) | | | |
|--|--|--|--|
| Name of facility or organization Pilgrim's | Pride Corporation - G | Sadsden Animal Feed | Ingredients Plant |
| . Type of pollution control device: (if more t submitted for each specific device.) | han one, check each | n; however, separat | e forms are to be |
| ☐Settling chamber ☐Ele | ctrostatic precipitat | or | |
| ☐Afterburner ☐Ba | ghouse | | |
| ☐Cyclone ☐Mu | lticlone | | |
| ☐Absorber ☐Ad: | sorber | | |
| ☐Condenser ☐We | t Suppression | | |
| Wet scrubber (kind): Packet | d-bed building air scru | ibber (Scrubber #1) | |
| Stage 1 - Vapor balance (type): | | | |
| Other (describe): | | | |
| Name of manufacturer Rendeq, Inc. | ed or is to be installe | Model No | SCU-100 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed. | ed or is to be installe | Model No | nasting to atmosphere |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed. Animal feed ingredient processing operations, | ed or is to be installe | d: building air prior to exh | nasting to atmosphere |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, | ed or is to be installe the scrubber will treat b | d: puilding air prior to exh | nasting to atmosphere |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, 5. Emission parameters: | ed or is to be installe the scrubber will treat be Pollutant #1 | d: puilding air prior to exh Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, 5. Emission parameters: | ed or is to be installe the scrubber will treat be Pollutant #1 | d: puilding air prior to exh Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, 5. Emission parameters: Mass emission rate (#/hr) | ed or is to be installe the scrubber will treat be Pollutant #1 | d: puilding air prior to exh Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| Name of manufacturer Emission source to which device is installed Animal feed ingredient processing operations, Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 | Pollutants Remove Pollutant #2 VOC | Pollutant #3 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, Emission parameters: Mass emission rate (#/hr) Uncontrolled | ed or is to be installe the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 PM10 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed. Animal feed ingredient processing operations, 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | ed or is to be installe the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 $PM10$ ≈ 0.77 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | ed or is to be installe the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 $PM10$ ≈ 0.77 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | ed or is to be installe the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | pasting to atmosphere Pollutant #3 PM10 ≈ 0.77 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | ed or is to be installe the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | pasting to atmosphere Pollutant #3 PM10 ≈ 0.77 |

ADEM Form 110 08/19 m4

6. Gas conditions:

| | Inlet | Intermediate Locations | Outlet |
|---------------------------------|-----------|---------------------------|-----------|
| Volume (SDCFM, 68°f, 29.92" hg) | ≈ 94,300 | | ≈ 94,300 |
| (ACFM, existing conditions) | ≈ 100,000 | | ≈ 98,200 |
| Temperature (°F) | ≈ 100 | | ≈ 90 |
| Velocity (ft/sec) | ≈ 48 | | ≈ 48 |
| Percent moisture | Will Vary | | Saturated |

| . Stack dimensions: | MA 583368 | (1) | 11 711 | 3758376 | (1) |
|--|---|---|---|--|--------------------------|
| UTM Coordinate (E- | | _ (km) | UTM Coordinate (N-S) | | _ (km) |
| Latitude | 33.962604 | _ (LAT) | Longitude | -86.097648 | _ (LONG) |
| Height above grade | 65 | _ (feet) | Gas temperature at exit | ≈ 90 | _ (°F) |
| Inside diameter at e (round) | ≈ 6.7 | _ (feet) | Gas Velocity | ≈ 48 | _ (Ft/Sec) |
| Inside area at exit (round) | not | (sq. feet) | Volume of gas | ≈ 100 , 000 | (ACFM) |
| 5 | | _ | discharged | 100,000 | _ |
| fan or blower, each | 550 am which includes emission point, e | (feet) _ gas exit from xits for collect | discharged GEP Stack Height m process, each control dected pollutants, and locatio | evice, location | (feet) of by-pass ports. |
| Provide a flow diagra | am which includes | gas exit froi xits for collec | GEP Stack Height m process, each control de cted pollutants, and locatio | evice, location on of sampling | of by-pass |
| Provide a flow diagra fan or blower, each Enclosed are: | am which includes emission point, e | s gas exit froi xits for colled □Part | GEP Stack Height m process, each control de | evice, location on of sampling | of by-pass |
| Provide a flow diagra fan or blower, each Enclosed are: ☐Blueprints | am which includes emission point, e terature | s gas exit from xits for collect ☐Part ☐Size | GEP Stack Height m process, each control dected pollutants, and location ticle size distribution repor | evice, location on of sampling | of by-pass |
| Provide a flow diagrafan or blower, each Enclosed are: Blueprints Manufacturer's li Emissions test of | am which includes emission point, e terature existing installati | s gas exit froi xits for collec ☐Part ☐Size on ☐Fan | GEP Stack Height m process, each control dected pollutants, and location ticle size distribution repore-efficiency curves | evice, location on of sampling t | of by-pass |
| Provide a flow diagrafan or blower, each Enclosed are: Blueprints Manufacturer's li Emissions test of Other I. List below the impor | am which includes emission point, e terature existing installation device is of unutant operating paraye for baghouse | gas exit from xits for collect Part Size on Fan sual design, rameters for ; throat velocity | GEP Stack Height m process, each control dected pollutants, and location ticle size distribution repore- e-efficiency curves curves please provide a sketch of the device. (For example: city and water use rate for a | evice, location on of sampling t | of by-pass ports. |

| | Solid waste | Solid waste | Liquid waste | Liquid waste |
|---------------------------|----------------------|-------------------------------|-------------------|--------------|
| /olume | | | | |
| Composition | | | | |
| ls waste hazardous? | | | No | |
| Method of disposal | | | Onsite WW | |
| Final destination | | | discharge to POTW | |
| collected air pollutant | s are recycled, desc | ribe: | | |
| - | | | | |
| N/A Name of person prepa | | ribe: felinda Mangiaracina | - WHEE, Inc. | |

12. By-pass (if any) is to be used when:

N/A



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

| (ADEM Use Only) | | | |
|--|---|--|---------------------------|
| Name of facility or organization Pilgrim's I | Pride Corporation - G | adsden Animal Feed | Ingredients Plant |
| . Type of pollution control device: (if more th submitted for each specific device.) | an one, check each | n; however, separate | e forms are to be |
| ☐Settling chamber ☐Elec | trostatic precipitat | or | |
| ☐Afterburner ☐Bag | house | | |
| ☐Cyclone ☐Mult | iclone | | |
| ☐Absorber ☐Ads | orber | | |
| ☐Condenser ☐Wet | Suppression | | |
| Wet scrubber (kind): Packed | -bed building air scru | bber (Scrubber #2) | |
| Stage 1 - Vapor balance (type): | | | |
| Other (describe): | | | |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. | d or is to be installe | d: | SCU-100 |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed. | d or is to be installe | d: | nasting to atmosphere |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the second secon | d or is to be installe | d: puilding air prior to exh | nasting to atmosphere |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the second secon | d or is to be installed the scrubber will treat be | d: puilding air prior to exh | asting to atmosphere |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the second parameters: | d or is to be installed the scrubber will treat be Pollutant #1 | d: puilding air prior to exh Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the second parameters: | d or is to be installed the scrubber will treat be Pollutant #1 | d: puilding air prior to exh Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the semission parameters: Mass emission rate (#/hr) | d or is to be installed the scrubber will treat be Pollutant #1 | d: puilding air prior to exh Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the semission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 | Pollutants Remove Pollutant #2 VOC | Pollutant #3 |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the state of the second parameters: Mass emission rate (#/hr) Uncontrolled | d or is to be installed the scrubber will treat by the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 PM10 ≈ 0.77 |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the state of the second parameters: Mass emission rate (#/hr) Uncontrolled | d or is to be installed the scrubber will treat by the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 PM10 ≈ 0.77 |
| Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the standard of the | d or is to be installed the scrubber will treat by the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 PM10 ≈ 0.77 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the Animal feed ingredient processing operations, the Standard of Standar | d or is to be installed the scrubber will treat by the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 PM10 ≈ 0.77 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing operations, the standard of t | d or is to be installed the scrubber will treat by the scrubber will treat by Pollutant #1 H2S ≈ 0.076 < 0.076 | d: puilding air prior to exh Pollutants Remove Pollutant #2 VOC ≈ 10.6 | Pollutant #3 PM10 ≈ 0.77 |

ADEM Form 110 08/19 m4 Page 1 of 3

6. Gas conditions:

| | Inlet | Intermediate Locations | Outlet |
|---------------------------------|-----------|---------------------------|-----------|
| Volume (SDCFM, 68°f, 29.92" hg) | ≈ 94,300 | | ≈ 94,300 |
| (ACFM, existing conditions) | ≈ 100,000 | | ≈ 98,200 |
| Temperature (°F) | ≈ 100 | | ≈ 90 |
| Velocity (ft/sec) | ≈ 48 | | ≈ 48 |
| Percent moisture | Will Vary | | Saturated |

| UTM Coordinate (E-W) | 583362 | _ (km) | UTM Coordinate (N-S) | 3758379 | _ (km) |
|---|---|--|---|-----------------------------------|---------------------|
| Latitude | 33.962626 | _ (LAT) | Longitude | -86.097716 | (LONG) |
| Height above grade | 65 | _ (feet) | Gas temperature at exit | ≈ 90 | _ (°F) |
| Inside diameter at exit (round) | ≈ 6.7 | _ (feet) | Gas Velocity | ≈ 48 | _ (Ft/Sec) |
| Inside area at exit (not round) | | (sq. feet) | Volume of gas | ≈ 100 , 000 | (ACFM) |
| | | | discharged | 100,000 | |
| fan or blower, each emi | | | discharged GEP Stack Height m process, each control dected pollutants, and locatio | evice, location | |
| Provide a flow diagram v fan or blower, each emis | which includes | gas exit froi xits for collec | GEP Stack Height m process, each control de | evice, location n of sampling | of by-pas |
| Provide a flow diagram v fan or blower, each emis Enclosed are: | which includes ssion point, e | gas exit froi xits for colled ☐Part | GEP Stack Height m process, each control de cted pollutants, and locatio | evice, location n of sampling | of by-pas |
| Provide a flow diagram v fan or blower, each emis Enclosed are: ☐Blueprints | which includes ssion point, e | s gas exit froi xits for collec □Part □Size | GEP Stack Height m process, each control de cted pollutants, and locatio | evice, location n of sampling | of by-pas |
| Provide a flow diagram version or blower, each emissions test of existence of the provided in | which includes ssion point, e sture sting installati | gas exit froi xits for collec □Part □Size on □Fan | GEP Stack Height m process, each control dected pollutants, and location ticle size distribution repore-efficiency curves curves | evice, location in of sampling | of by-pas |
| Provide a flow diagram version or blower, each emissions test of existence of the pollution control design. List below the important type, weight, and weave | which includes ssion point, exture sting installatievice is of unu operating partor baghouse | gas exit from the collect state of the collect stat | GEP Stack Height m process, each control dected pollutants, and location ticle size distribution repore- e-efficiency curves curves please provide a sketch of the device. (For example: city and water use rate for a | evice, location on of sampling t | of by-pas ports. |
| Provide a flow diagram version or blower, each emissions test of existence of the pollution control design. Provide a flow diagram version and the pollution control design. I List below the important. | which includes ssion point, exture sting installativities of unu operating part for baghouse sulation Rate: 1 | gas exit from the state of the | GEP Stack Height m process, each control dected pollutants, and location ticle size distribution repore- e-efficiency curves curves please provide a sketch of the device. (For example: city and water use rate for a | evice, location on of sampling t | of by-pas ports. |

ADEM Form 110 08/19 m4

| 3. Disposal of collecte | d air pollutants: N/N | A | | |
|---------------------------|-------------------------|-------------------------------|---|--------------|
| | Solid waste | Solid waste | Liquid waste | Liquid waste |
| Volume | | | | |
| Composition | | | | |
| Is waste hazardous? | | | No | |
| Method of disposal | | | Onsite WW | |
| Final destination | | | treatment system w/ + discharge to POTW | |
| collected air pollutant | ts are recycled, desc | ribe: | | |
| • | s are recycled, desc | ribe: | | |
| N/A Name of person prepa | A | ribe: Ielinda Mangiaracina | - WHEE, Inc. | |

12. By-pass (if any) is to be used when:



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

| - - | | | |
|--|--|---|---------------------------|
| Name of facility or organization Pilgrim's I | Pride Corporation - G | Gadsden Animal Feed | Ingredients Plant |
| . Type of pollution control device: (if more th submitted for each specific device.) | an one, check each | ո; however, separat | e forms are to be |
| ☐Settling chamber ☐Elec | trostatic precipitat | or | |
| ☐Afterburner ☐Bag | house | | |
| ☐Cyclone ☐Mult | iclone | | |
| ☐ Absorber ☐ Adso | orber | | |
| ☐Condenser ☐Wet | Suppression | | |
| Wet scrubber (kind): Packed | -bed building air scru | ibber (Scrubber #3) | |
| Stage 1 - Vapor balance (type): | | | |
| Other (describe): | | | |
| Name of manufacturer Rendeq, Inc. | | woder 140 | SCU-075 |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed. | | woder 140 | tmosphere. |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber | | d: prior to exhasting to at | tmosphere. |
| Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber | will treat building air | d: prior to exhasting to at Pollutants Remove | tmosphere. |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: | will treat building air Pollutant #1 | d: prior to exhasting to at Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: | will treat building air Pollutant #1 | d: prior to exhasting to at Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: Mass emission rate (#/hr) | will treat building air Pollutant #1 | d: prior to exhasting to at Pollutants Remove Pollutant #2 | ed Pollutant #3 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | Pollutant #1 H2S | d: prior to exhasting to at Pollutants Remove Pollutant #2 VOC | Pollutant #3 PM10 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. . Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | will treat building air Pollutant #1 H2S ≈ 0.057 < 0.057 | d: prior to exhasting to at Pollutants Remove Pollutant #2 VOC ≈ 7.98 | Pollutant #3 PM10 ≈ 0.58 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. . Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | will treat building air Pollutant #1 H2S ≈ 0.057 < 0.057 | d: prior to exhasting to at Pollutants Remove Pollutant #2 VOC ≈ 7.98 | Pollutant #3 PM10 ≈ 0.58 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled | will treat building air Pollutant #1 H2S ≈ 0.057 < 0.057 | d: prior to exhasting to at Pollutants Remove Pollutant #2 VOC ≈ 7.98 | Pollutant #3 PM10 ≈ 0.58 |
| . Control device manufacturer's information: Name of manufacturer Rendeq, Inc. Emission source to which device is installed Animal feed ingredient processing, the scrubber 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled Designed Manufacturer's guaranteed Required by regulation Manufacturer's guaranteed Manufacturer's guaranteed | will treat building air Pollutant #1 H2S ≈ 0.057 < 0.057 | d: prior to exhasting to at Pollutants Remove Pollutant #2 VOC ≈ 7.98 | Pollutant #3 PM10 ≈ 0.58 |
| Mass emission rate (#/hr) Uncontrolled Designed Mass emission rate (Expressed as units of standard) Rendeq, Inc. | will treat building air Pollutant #1 H2S ≈ 0.057 < 0.057 | d: prior to exhasting to at Pollutants Remove Pollutant #2 VOC ≈ 7.98 | Pollutant #3 PM10 ≈ 0.58 |

ADEM Form 110 08/19 m4 Page 1 of 3

6. Gas conditions:

| | Inlet | Intermediate Locations | Outlet |
|---------------------------------|-----------|---------------------------|-----------|
| Volume (SDCFM, 68°f, 29.92" hg) | ≈ 70,700 | | ≈ 70,700 |
| (ACFM, existing conditions) | ≈ 75,000 | | ≈ 73,650 |
| Temperature (°F) | ≈ 100 | | ≈ 90 |
| Velocity (ft/sec) | ≈ 50 | | ≈ 50 |
| Percent moisture | Will Vary | | Saturated |

| 7. Stack dimensions: | oss device: 1-6 | (mem | es H₂0) | | |
|--|--|--|---|----------------|------------|
| UTM Coordinate (E | -w) <u>583392</u> | _ (km) | UTM Coordinate (N-S) | 3758352 | _ (km) |
| Latitude | 33.962381 | _ (LAT) | Longitude | -86.097388 | (LONG) |
| Height above grade | ≈ 65 | _ (feet) | Gas temperature at exit | ≈ 90 | _ (°F) |
| Inside diameter at e (round) | exit ≈ 5.67 | _ (feet) | Gas Velocity | ≈ 50 | _ (Ft/Sec) |
| Inside area at exit (round) | not | (sq. feet) | Volume of gas discharged | ≈ 75,000 | (ACFM) |
| Base Elevation | 550 | _ (feet) | GEP Stack Height | | (feet) |
| 3. Provide a flow diagra | am which includes | s gas exit froi | m process, each control de | vice. location | of by-pass |
| fan or blower, each Enclosed are: | | xits for collec | m process, each control de cted pollutants, and locatio | n of sampling | |
| fan or blower, each | emission point, ex | xits for colled ☐Part | cted pollutants, and locatio | n of sampling | |
| fan or blower, each Enclosed are: Blueprints | emission point, exiterature | xits for colled □Part □Size | cted pollutants, and locatio | n of sampling | |
| fan or blower, each D. Enclosed are: □Blueprints ☑Manufacturer's li □Emissions test of □Other | emission point, exiterature f existing installati | xits for collect ☐Part ☐Size on ☐Fan | cted pollutants, and locatio ticle size distribution repor e-efficiency curves | n of sampling | |
| fan or blower, each Enclosed are: Blueprints Manufacturer's li Emissions test of Other Other List below the importype, weight, and we | emission point, exiterature f existing installati ol device is of unu tant operating par | □Part □Size on □Fan sual design, rameters for ; throat veloc | cted pollutants, and location ticle size distribution reporte-efficiency curves curves | t the device. | ports. |
| fan or blower, each Enclosed are: Blueprints Manufacturer's li Emissions test of Other Other List below the importype, weight, and we | emission point, exiterature f existing installati ol device is of unu tant operating pareave for baghouse ecirculation Rate: 6 | Part □Size on □Fan sual design, rameters for ; throat veloce 00-750 gpm | cted pollutants, and location ticle size distribution reporte-efficiency curves curves please provide a sketch of the device. (For example: | t the device. | ports. |
| fan or blower, each D. Enclosed are: Blueprints Manufacturer's li Emissions test of Other D. If the pollution control 1. List below the importype, weight, and we Scrubbant/Water Re | emission point, exiterature f existing installati ol device is of unu tant operating pareave for baghouse ecirculation Rate: 6 | Part □Size on □Fan sual design, rameters for ; throat veloce 00-750 gpm | cted pollutants, and location ticle size distribution reporte-efficiency curves curves please provide a sketch of the device. (For example: | t the device. | ports. |

ADEM Form 110 08/19 m4 Page 2 of 3

| | Solid waste | Solid waste | Liquid waste | Liquid waste |
|--------------------------|-----------------------|--------------------------------|---------------------------------------|--------------|
| /olume | | | | |
| Composition | | | | |
| s waste nazardous? | | | No | · |
| Method of disposal | | | Onsite WW | |
| Final destination | | | treatment system w/ discharge to POTW | |
| • | ts are recycled, desc | cribe: | | |
| - | ts are recycled, desc | cribe: | | |
| N/A Name of person prepa | | eribe: Melinda Mangiaracina | - WHEE, Inc. | |

12. By-pass (if any) is to be used when:

PERMIT APPLICATION FOR MANUFACTURING OR PROCESSING OPERATION

| | | -[| | |
|----|--|---|--|----------------------|
| 1. | Name of facility or organization: | Pilgrim's Pride Corporation - Ga | Do not write in this space adsden Animal Feed Ingredients Plan | ıt |
| 2. | Briefly describe the operation of to for each type of process or for monaterial from, or provides input monaterial from, an application so the operations.) An application so the operating scenario number Finish | ultiple units of one process to naterial to, another operation hould be completed for each med Meal Loadout | type. If the unit or process receive, please indicate the relationship alternative operating scenario. | ves input between |
| | 4400 | | te. Minimal fugitive PM emissions n | |
| | | | entrance and exit, and should provid | |
| | | - | k will drive in the loadout bay and f | inished |
| | meals will drop out of loadout spou | iting into the top of the truck. | | |
| | | | | |
| | | | | |
| | Market and the second | | | |
| | | | | |
| 3 | . Type of unit or process (e.g., cal | cining kiln, cupola furnace): | Finished meal loadout. | |
| | Make: N/A | Model: | N/A | |
| | Rated process capacity (manufa | cturer's or designer's guara | nteed maximum) in pounds/hour: | ≈ 100,000 |
| | Manufactured date: N/A | | Proposed installation date: | 2021/2022 |
| | | Orig | inal installation date (if existing): | N/A |
| | | Reconstruction or | Modification date (if applicable): | N/A |
| 4. | Normal operating schedule: | | | |
| | Hours per day: 16-24 | Days per week: 5-6 | Weeks per year: | |
| | Peak production season (if any): | N/A | | |

| Finished Mea | ıl | | < 100,0 | (lb/hr) 000 | (lb/hr) 100,000 | See Attach. B |
|----------------------------|----------------------------|------------------------------|------------------------------|--------------------------------|----------------------------------|-----------------------------|
| | | | | | | only. |
| 6. Total heat inpe | ut capacity eviously de | of process | heating equ ADEM Form | ıipment (exclı 104):_N/A | ude fuel used by ind MMBtu/hr | irect heating |
| Fuel | Heat Content | Units | Max. % Sulfur | Max. % Ash | Grade No. [fuel oil only] | Supplier [used oil only] |
| Coal | | Btu/lb | | | | |
| uel Oil | | Btu/gal | | | | |
| Natural Gas | | Btu/ft³ | | | | |
| P. Gas | | Btu/ft³ | | | | |
| Vood | | Btu/lb | | | | |
| Other (specify) | 5 | | | | | |
| 7. Products of pr Produ | | init: | Qua | ıntity/year | | Jnits of production |
| Finished Animal Feed | d Ingredient N | Meals | See Attachm | nent B. | | |
| | | | | | | |
| | | | | | | |
| 8. For each regula | ated pollut standard | ant, describ (attach addi | e any limita itional page | tions on sour if necessary) | ce operation which | affects emissions or |
| Loadout operation | s will occur | in an enclos | ed structure. | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

5. Materials (feed input) used in unit or process (include solid fuel materials used, if any):

Page 3 of 5

ADEM Form 105 08/19 m5

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

| | Exit | l emperature (°F) | Ambient | | | | | | | |
|-------|---------------------------|--------------------------------|----------|--|--|------------------|---|--|---|--|
| | Volume of Gas | Discharged (ACFM) | N/A | | | | | | | |
| | Gas Exit | Velocity (Feet/Sec) | N/A | | | | | | | |
| | Inside Area if NOT | Round Opening (sq. feet) | | | | | ÷ | | | |
| | Inside Diameter | Tor Kound Opening (Feet) | N/A | | | | | | | |
| Stack | Base | (Feet) | ≈ 500 | | | | | | | |
| | GEP Stack | Height (Feet) | N/A | | | | | | | |
| | Height Above | Grade (Feet) | ≈ 15 | | | | | | | |
| | aphic nates | LONG | -86.0981 | | | | | | | |
| | Geographic Coordinates | LAT | 33.96182 | | | | | | - | |
| | rdinates | N-S (km) | 3758291 | | | ırce | | | | |
| | UTM Coordinates | E-W (km) | 583342 | | | *Fugitive source | | | | |
| | Emission | | LO1* | | | | | | | |

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

11. Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions <u>must be included</u> and calculations must be appended.

| Emission | | F | otential Em | | Regulatory En | nission Limit |
|----------|--------------|---------|-------------|-------------------------|---------------|---------------------|
| Point | Pollutants | (lb/hr) | (Tons/yr) | Basis of Calculation | (lb/hr) | (units of standard) |
| | Refer to | | | | | |
| | Attachment B | | | | | |
| | | | | | | ¥. |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | * |
| | | | | | | |
| | | | | | | |

| Using a flow diagran | n | 1 |
|--|---|---|
|--|---|---|

- (1) Illustrate input of raw materials,
- (2) Label production processes, process fuel combustion, process equipment and air pollution control equipment,
- (3) Illustrate locations of air contaminant release so that emission points under item 10 can be identified.

(☑ Check box if extra pages are attached)
Process flow diagram

| 13. | Is this unit | or process | in compliance with all a | applicable air pollution | rules and regulations? |
|-----|---|------------------------------|--------------------------------------|--------------------------------------|--|
| | ✓Yes | □No | | | |
| | (if "no", a | compliance | schedule, ADEM Form | 437 must be complete | d and attached.) |
| 14. | | nput materia ome airborn | | orocess or unit contair | n finely divided materials which |
| | ✓Yes | □No | | | |
| 15. | | this materia ist problems | | ome other facility as to | make possible the creation of |
| | □Yes | ☑No | | | |
| | List storaç | ge piles or of | ther facility (if any): N | /A | |
| | Type of | material | Particle size (diameter or screen | Pile size or facility (average tons) | Methods utilized to control fugitive emissions |
| l | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | size) | , | (wetted, covered, etc.) |
| | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | size) | (| (wetted, covered, etc.) |
| | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | size) | | (wetted, covered, etc.) |
| | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | size) | | (wetted, covered, etc.) |
| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | size) | | (wetted, covered, etc.) |
| , | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | size) | | (wetted, covered, etc.) |
| , | | | size) | | (wetted, covered, etc.) |
| | | | size) | | (wetted, covered, etc.) |
| N | | | | da Mangiaracina - WHE | |

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AIR DIVISION

PERMIT APPLICATION FOR LOADING AND STORAGE OF ORGANIC COMPOUNDS

| | Do not write in this space |
|--|---|
| 1. Name of Facility or Organization: | grim's Pride Corporation - Gadsden Animal Feed Ingredients Plant |
| 2. Plant Location: Gadsden, AL | |
| 3. Permit Application is made for: | |
| Existing Equipment | ✓ New Equipment |
| Modification | Change in Location |
| Other | |
| 4. Normal Schedule of Operation | |
| Hours per day: 24 | Weeks per Year: 52 |
| Days per Week:5-6 | Peak Season: N/A |
| The tank proposed with this application sto | - ' |
| On a separate sheet sketch a map indication is made. | ating the location of each storage tank and/or loading rack for which t |
| Name of Person Preparing this Application | n: Melinda Mangiaracina |
| Title: Staff Engineer - WHEE, Inc. | Date: 7/28/2620 |
| Telephone: (770) 844-0037 | Signature: MM M |

If additional entries are needed, make additional copies of this form and attach to the application. Make sure to identify the additional sheets such as 2a of 8 or 2.1 of 8.

| > |
|--|
| ᆫ |
| ᆜ |
| ū |
| ⋖ |
| ۳ |
| 8 |
| _ |
| છ |
| × |
| 9 |
| ⋧ |
| <u></u> |
| 얼 |
| É |
| H |
| 6 |
| ĭ |
| <u></u> |
| ఆ |
| ž |
| ₹ |
| Н |
| Щ |
| Ō |
| ⋧ |
| Ö |
| ř |
| တ |
| Ω |
| 삤 |
| ŏ |
| ۵ |
| 0 |
| ဣ |
| 4 |
| Ξ. |
| 8 |
| - |
| IBLE 108.1-PROPOSED STORAGE TANK(S)/LOADING RACK(S) AT FACILITY |
| 굺 |
| |

| ABLE 10 | TABLE 108.1-PROPOSED STORAGE TANK(S)/LOADING RACK(S) AT FACILITY | AGE LANK(S)/LO | ADING RACK | S) AI FACILI | | | | | |
|----------------|---|---|-------------------------|---|--|--|---|--|------------------------|
| TANK ID | TANK CAPACITY (gallons) | TANK TYPE (a) (HFRT, VFRT, EFLRT, DEFLRT, OT IFLRT) | FILL METHOD (d) | DATE MANUFACTURED | DATE INSTALLED OR CONSTRUCTION COMMENCED | DATE RECONSTRUCTED, AS APPLICABLE | DATE MODIFIED, AS APPLICABLE | EQUIPPED WITH VAPOR RECOVERY SYSTEM (b) (Y or N) | APPLICABLE REGULATIONS |
| AST1 | 10,000 | | Top filling | 2021/2022 | 2021/2022 | N/A | N/A | N | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| RACK ID | RACK TYPE (Marine, Truck, Rail, etc.) | PROPOSED PRODUCTS TO BE LOADED ⊕ | TS TYPE OF LOADING (d) | IF SUBMERGED, WHAT % IS FILL PIPE SUBMERGED? | EQUIPPED WITH \ SYST | EQUIPPED WITH VAPOR RECOVERY SYSTEM (b) (Y or N) | PROVIDE EFFICIENCY OF VAPOR COLLECTION SYSTEM | | APPLICABLE REGULATIONS |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| (a) HFRT-hor | (a) HFRT-horizontal fixed roof tank; VFRT-vertical fixed roof tank; EFLRT-external floating roof tank; DEFLRT-domed external floating roof tank; IFLRT-internal floating roof tank Dease attach ADEM Form 110 for the vanor recovery exetem | rtical fixed roof tank; EFI | LRT-external floatin | g roof tank; DEFLR | I-domed external floa | ating roof tank; IFLR | F-internal floating ro | of tank | |
| (c) Use Produ | (c) Use Product ID from Table 108.2 or list "ALL" if rack may transfer all of the products listed in Table 108.2. | L." if rack may transfer | all of the products lis | ted in Table 108.2. | | | | | |
| (d) Type of Fi | illing/Loading-submerged fill, spla | ash filling, top filling, bo | ttom filling, etc | | | | | | |

| - |
|------------------------------|
| |
| _ |
| \neg |
| = |
| ပ |
| × |
| |
| ш. |
| \mathbf{L} |
| `~ |
| • |
| $\mathbf{-}$ |
| _ |
| = |
| O |
| O OUT AT FACILITY |
| |
| ш |
| 0 |
| 7 |
| 4 |
| 0 |
| J |
| _ |
| Ω |
| 7 |
| > |
| ч |
| |
| ж. |
| щ |
| œ |
| |
| |
| 0 |
| 2 |
| STO |
| STO |
| S) STO |
| (S) STO |
| T(S) STO |
| CT(S) STO |
| JCT(S) STORED AND LOADED OUT |
| UCT(S) STO |
| DUCT(S) STO |
| ODUCT(S) STO |
| RODUCT(S) STO |
| RODUCT(S) STO |
| PRODUCT(S) STO |
| O PRODUCT(S) STO |
|) PRODI |
| ED PRODI |
| ED PRODI |
| ED PRODI |
| ED PRODI |
| POSED PRODU |
| ED PRODI |

(a) Applicable for products stored in tanks with floating roofs.(b) Loadout is product transferred from tank through rack to marine vessel, truck or rail car, or container.

If applying for the construction/modification/reconstruction of more than six tanks, make additional copies of this form as needed and attach to the application. Make sure to identify the additional sheets such as 4a of 8 or 4.1 of 8.

TABLE 108.3- FIXED ROOF STORAGE TANK (HORIZONTAL)

| TANK ID \rightarrow | AST1 | | | 6 | | |
|--|------------------------|-------------|-----|-----|-----|-----|
| SHELL LENGTH (ft-in) | | | | | | |
| SHELL DIAMETER (ft-in) | | | | | | |
| HEATED? (Y or N) | N | | | | | |
| PRESSURIZED? (Y or N) | N | | | | | |
| UNDERGROUND? (Y or N) | N | | | | | |
| SHELL COLOR/SHADE (a) | White | | | | | |
| SHELL CONDITION (b) | New | | | | | |
| PROPOSED PRODUCTS TO BE STORED ^(c) | On-Road Diesel Fuel | | | | | |
| PRODUCT TRANSFER FROM TANK TO: | Fleet Vehicles | s/Equipment | | | | |
| gallons per day (GPD) (d) | < 1,000 GPD | GPD | GPD | GPD | GPD | GPD |

TABLE 108.4-FIXED ROOF STORAGE TANK (VERTICAL)

| .XED 11001 | 0.01010E 171 | 1114 (12 1110) | - , | | | |
|--------------------------------|---|--|---|--|--|-----|
|) → | | | | | | |
| EIGHT I) | | | | | | |
| METER) | | | | | | |
| HEIGHT | | | | | | |
| HEIGHT | | | | | | |
| ED? N) | | * | | | | |
| RIZED? N) | | | | | | |
| SHELL COLOR/SHADE (a) | | | | | | |
| SHELL CONDITION (b) | | | | | | |
| ROOF COLOR/SHADE (a) | | | | | | |
| ROOF CONDITION (b) | | | | | | |
| CONE/DOME HEIGHT (ft-in) | | | | | | |
| DUCTS TO BE | | | | | | |
| R FROM TANK TO: | | | | | | |
| y (GPD) ^(d) | GPD | GPD | GPD | GPD | GPD | GPD |
| | EIGHT a) METER b) HEIGHT b) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT color/shade (a) ROOF color/shade (a) ROOF condition (b) CONE/DOME HEIGHT (ft-in) DUCTS TO BE D (c) R FROM TANK TO: y (GPD) (d) | EIGHT a) METER b) HEIGHT b) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT c) HEIGHT color/shade (a) SHELL CONDITION (b) ROOF CONDITION (b) CONE/DME HEIGHT (ft-in) DUCTS TO BE D (c) R FROM TANK TO: y (GPD) (d) GPD | EIGHT ()) METER () () HEIGHT () () SHELL (COLOR/SHADE (a) SHELL (CONDITION (b) CONDITION (b) CONDITION (b) CONDITION (b) CONE/DOME HEIGHT (ft-in) DUCTS TO BE D (c) R FROM TANK TO: () (GPD) (d) GPD | EIGHT () () () () () () () () () () () () () | EIGHT () () () () () () () () () () () () () | D |

⁽a) Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); Red/Primer (R/P) If tank color unknown, list "default"

⁽b) Select from: Good or Poor. If tank condition unknown, list "default"

⁽c) Use Product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.

⁽d) Should be completed if product in tank is being transferred to a specific piece of equipment or process which is not a loading rack (e.g. boiler).

If applying for the construction/modification/reconstruction of more than six tanks, make additional copies of this form as needed and attach to the application. Make sure to identify the additional sheets such as 5a of 8 or 5.1 of 8.

TABLE 108.5-EXTERNAL FLOATING ROOF STORAGE TANK

| IADLE 100.3-E | -VIEKINAL L | LOW LING KO | JI STURAGE | IVIAL | | | |
|-----------------------|---|-------------|------------|-------|-----|-----|-----|
| TANK II | D → | | | | | | |
| SHELL DIA | | | | | | | |
| DOME (Y or | | | | | | | |
| INTERNAL SHELL | CONDITION (a) | | | | | | |
| PAINT COLOR | R/SHADE (b) | | | , | | | |
| PAINT CON | DITION (c) | | | | | | |
| ROOF | LIST ONE PONTOON OR DOUBLE DECK | | | | | | |
| CHARACTERISTICS | ROOF FITTING CATEGORY ^(d) | | | | | | |
| TANK CONSTRUCTION | LIST ONE WELDED OR RIVETED | | | | | | |
| SEAL TYPE | PRIMARY (e) | | | | | , | |
| OLAL TITLE | SECONDARY (f) | | | | | | , |
| PROPOSED PRO STORE | | | | | | | |
| PRODUCT TRANSFE | R FROM TANK TO: | | | | | | |
| gallons per da | y (GPD) (h) | GPD | GPD | GPD | GPD | GPD | GPD |
| | | | | | | | |

- (a) Select from: Light Rust; Dense Rust; GuniteTM Lining. If internal shell condition unknown, list "default"
- (b) Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); Red/Primer (R/P) If paint color unknown, list "default"
- (c) Select From: Good or Poor. If tank condition unknown, list "default"
- (d) Typical or Detail. If detail, list fittings and quantities for each tank on Table 108.7
- (e) Select from: Mechanical Shoe (MS); Liquid Mounted (LM); or Vapor Mounted (VM)
- (f) Select from: None, Shoe Mounted (SM), Rim Mounted (RM) or Weather Shield (WS)
- (g) Use Product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.
- (h) Should be completed if product in tank is being transferred to a specific piece of equipment or process which is not a loading rack (e.g. boiler).

If applying for the construction/modification/reconstruction of more than six tanks, make additional copies of this form as needed and attach to the application. Make sure to identify the additional sheets such as 6a of 8 or 6.1 of 8.

TABLE 108.6-INTERNAL FLOATING ROOF STORAGE TANK

| TABLE 100.0-1 | MILKINAL IL | OATING ROO | TORAGE | MIN | | | |
|-----------------------|--|------------|--------|-----|-----|-----|-----|
| TANK II |) → | | | | | | |
| SHELL DIA (ft-ir | METER I) | | | | | | |
| SELF SUPPOI (Y or | | | | | | | |
| NUMBER OF | COLUMNS | | | | | | |
| EFFECTIVE COLUM | IN DIAMETER (a) | | | | | | |
| INTERNAL SHELL | CONDITION (b) | | | | | | |
| EXTERNAL CUELL | PAINT COLOR/SHADE ^(c) | | | | | | |
| EXTERNAL SHELL | PAINT CONDITION (d) | | | | | | |
| ROOF | PAINT COLOR/SHADE ^(c) | | | | | | |
| CHARACTERISTICS | PAINT CONDITION (d) | | | | | | |
| DECK CHARAC. | LIST ONE BOLTED OR WELDED ^(e) | | | | | | |
| SEAL TYPE | PRIMARY ^(f) | | | | | | |
| SEAL TIPE | SECONDARY (9) | | | | | | |
| PROPOSED PRO STORE | | | | | | | |
| PRODUCT TRANSFER | R FROM TANK TO: | | | | | | |
| gallons per da | y (GPD) (i) | GPD | GPD | GPD | GPD | GPD | GPD |

- (a) Select from: 9" by 7" Built-Up Column, 8" Diameter Pipe, or Unknown
- (b) Select from: Light Rust; Dense Rust; Gunite™ Lining. If internal shell condition unknown, list "default"
- (c) Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); Red/Primer (R/P) If paint color unknown, list "default"
- (d) Select From: Good or Poor. If tank condition unknown, list "default"
- (e) Typical or Detail. If detail, list fittings and quantities for each tank on Table 108.7
- (f) Select from: Mechanical Shoe (MS); Liquid Mounted (LM); or Vapor Mounted (VM)
- (g) Select from: None, Shoe Mounted (SM), or Rim Mounted (RM)
- (h) Use Product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.
- (i) Should be completed if product in tank is being transferred to a specific piece of equipment or process which is not a loading rack (e.g. boiler).

TABLE 108.7-FLOATING ROOF FITTINGS-DETAIL (DECK OR ROOF CHARACTERISTICS)

| TANK ID. | TANK CONSTRUCTION: IFRT or EFRT |
|--|--|
| (fill out sepa | rate page for each IFRT or EFRT) |
| Specify deck fitting type(s) by underlining and ind | licate quantity of each fitting from the following: |
| | |
| | 1) Adjustable |
| A. Access Hatch Qty: | 2) Fixed |
| Bolted cover, gasketed | |
| Unbolted cover, gasketed | J. Sample pipe or well Qty: |
| 3) Unbolted cover, ungasketed | Slotted pipe sliding cover, gasketed Slotted pipe sliding cover, ungasketed |
| B. Automatic, Gauge Float Well Qty: | , |
| Automatic, Gauge Float Well Bolted cover, gasketed | 3) Silt labile seal, 10 % open area |
| Unbolted cover, gasketed | K. Slotted Guide-Pole/Sample Well Qty: |
| 3) Unbolted cover, ungasketed | Ungasketed sliding cover without float |
| • | 2) Ungasketed sliding cover with float |
| C. Column Well Qty: | Gasketed sliding cover without float |
| Built-up column-sliding cover, gasketed | Gasketed sliding cover with float |
| Built-up column-sliding cover, ungasketed Biggs and seed for the factories of the seed for the seed | 5) Gasketed sliding cover with pole wiper |
| 3) Pipe column-flexible fabric sleeve seal4) Pipe column-sliding cover, gasketed | 6) Gasketed sliding cover with pole sleeve7) Gasketed sliding cover with float, wiper |
| 5) Pipe column-sliding cover, gasketed | 8) Gasketed sliding cover with float, sleeve, wiper |
| of Tipe column-sliding cover, ungasketed | 9) Gasketed sliding cover with pole sleeve, wiper |
| D. Gauge-Hatch/Sample Well, 8 inch diameter Qty: | -, |
| Weighted mechanical actuation, gasketed | L. Stub drain, 1 inch diameter [Yes or No] |
| Weighted mechanical actuation, ungasketed | |
| | M. Unslotted Guide-Pole Well Qty: |
| E. Ladder Well Qty: | |
| Sliding cover, gasketed Sliding cover upgesketed | 2) Gasketed sliding cover3) Ungasketed sliding cover with sleeve |
| Sliding cover, ungasketed | Gasketed sliding cover with sleeve |
| F. Rim Vent, 6 inch diameter Qty: | 5) Gasketed sliding cover with wiper |
| Weighted mechanical actuation, gasketed | |
| 2) Weighted mechanical actuation, ungasketed | N. Vacuum breaker Qty: |
| | Weighted mechanical actuation, gasketed |
| G. Roof Drain, 3 inch diameter Qty: | Weighted mechanical actuation, ungasketed |
| 1) Open | |
| 2) 90% Closed | |
| H. Roof Leg, 3 inch diameter Qty: | |
| Adjustable, Pontoon Area, ungasketed | |
| 2) Adjustable, Center Area, ungasketed | |
| Adjustable, Double Deck Roofs | |
| 4) Fixed | |
| 5) Adjustable, Pontoon Area, gasketed | |
| 6) Adjustable, Pontoon Area, socks7) Adjustable, Center Area, gasketed | |
| 8) Adjustable, Center Area, gasketed | |
| of regulation solution results | |
| | |
| | |
| I. Roof Leg or Hanger Well Qty: | an fallousings |
| For an IFRT, if <u>bolted</u> , give deck construction method for the A. Continuous Sheet | ne following: OR B. Panel Construction |
| [5ff 6ff or 7ff wide] | [5x7 5 ft or 5x12 ft] |

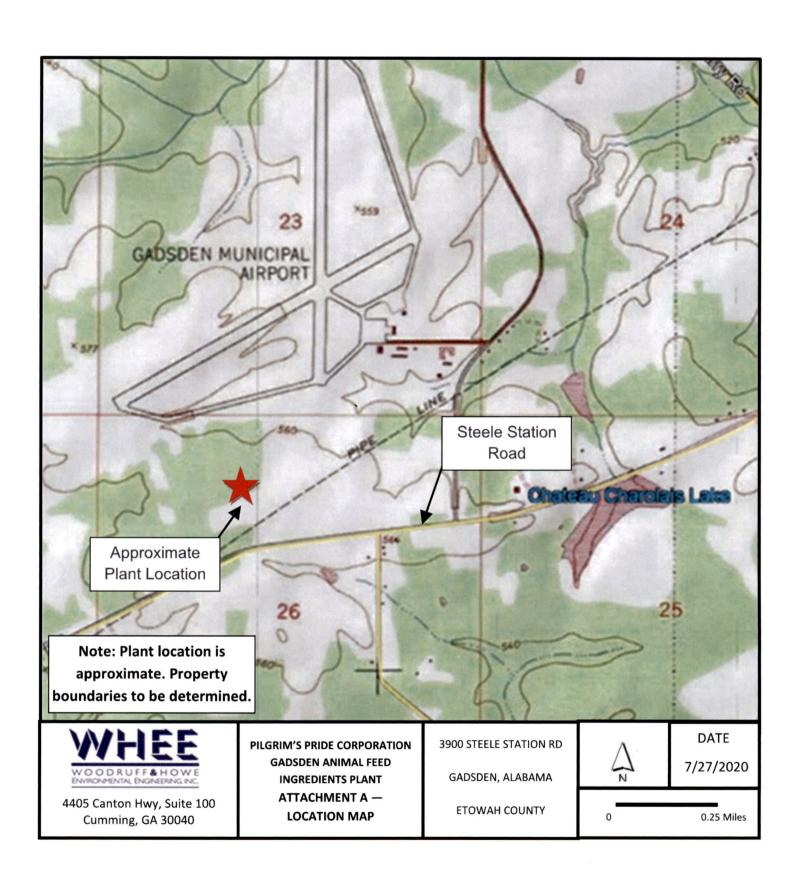
TABLE 108.8-CHEMICAL DATA INFORMATION

Use a separate form for each chemical not in the current version of EPA's TANKS Program's chemical database.

| Section I: Chemical Nam CAS Number: Category: Liquid Molecul Vapor Molecul Liquid Density | Crude Oil ar Weight: ar Weight: | Petroleum Distillates | |
|---|--|---|--------------------|
| Section II: Va | Enter Vapor Pressure (psia) for 40F: | in one or more of the following of the each temperature: 80F: 90F: 100F: | otions completely) |
| Option 2 | Constants for Antoine's Equati | ion (using Celsius): | |
| Option 3 | A: Constants for Antoine's Equation | B:ion (using Kelvin): | C: |
| Option 4 | A: Reid Vapor Pressure (psia): (Dastillates Only) | | C: |

Attachment A

Location Map



Attachment B

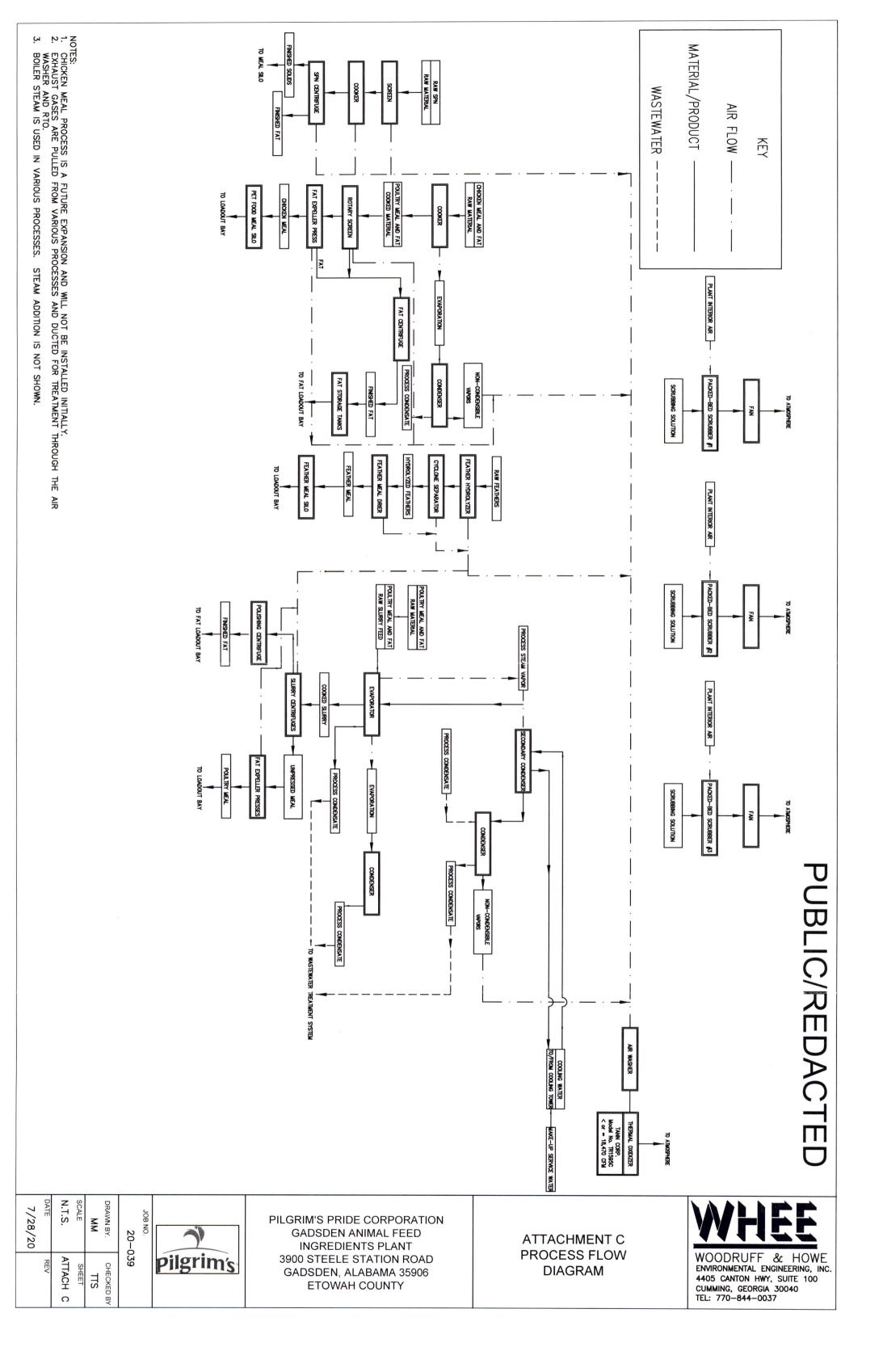
Emissions Inventory (Redacted)

Attachment B - Emission Inventory Pilgrim's Pride Corporation - Gadsden Animal Feed Ingredients

PUBLIC/REDACTED

Gadsden, Alabama

| Emission Source (Emission Unit ID) | Material Output | Max Annual Operating Hours | Emissions Control | Pollutant Type | Emission Rate (Lbs/Hr) | Emission Rate (Tons/yr) |
|---------------------------------------|-----------------------|-------------------------------|------------------------|-------------------|---------------------------|-------------------------------|
| Direct Rendering Process | | | | | | |
| | | | | Cond. PM | 0.59 | 2.58 |
| | 2 | | | PM | 0.27 | 1.18 |
| | | | | PM_{10} | 08.0 | 3.49 |
| | | 8,760 | | $PM_{2.5}$ | 76.0 | 2.91 |
| Direct Rendering Operation Vapors | Pet Food Meal and Pet | | RTO | NO_X | 1.88 | 8.24 |
| (14.1) | 1 000 1 21 | | | SO_2 | 8.21 | 35.95 |
| | | | 2 | VOC | 3.14 | 13.75 |
| | | | | $\mathrm{H_2S}$ | 0.23 | 1.01 |
| | | | | NH_3 | 0.70 | 3.05 |
| | | | | Cond. PM | 0.27 | 0.02 |
| | | | | PM | 0.13 | 0.01 |
| Direct Rendering Operation Vapors | | | | PM_{10} | 0.38 | 0.03 |
| (Back-Up Operation Scenario: RTO | Pet Food Meal and Pet | 150 | Building Air Scrubbers | $PM_{2.5}$ | 0.31 | 0.02 |
| is down and/or out of service) | LOOG Lat | | | VOC | 45.99 | 3.45 |
| | | | | H_2S | 0.62 | 0.05 |
| | | | | NH_3 | 0.72 | 0.05 |
| Building Air Scrubbers | | | | | | |
| | | | | Cond. PM | 1.81 | 7.94 |
| | | | | PM | 0.43 | 1.88 |
| | | | | PM_{10} | 2.11 | 9.23 |
| Sum of Building Air Scrubbers | Building Air from | 8,760 | | PM _{2.5} | 1.94 | 8.48 |
| (81, 82, 83) | Kendering Areas | | | NH_3 | 0.34 | 1.48 |
| | | | | H_2S | 0.21 | 0.94 |
| | | | | VOC | 29.25 | 128.11 |



Attachment B - Emission Inventory
Pilgrim's Pride Corporation - Gadsden Animal Feed Ingredients
Gadsden, Alabama

PUBLIC/REDACTED

| Emission Source (Emission Unit ID) | Material Output | Max Annual Operating Hours | Emissions Control | Pollutant Type | Emission Rate (Lbs/Hr) | Emission Rate (Tons/yr) |
|---------------------------------------|-----------------|----------------------------|-------------------|---------------------|---------------------------|-------------------------|
| Boilers #1, #2, #3 | | | | | | |
| | | | | Cond. PM | 0.38 | 1.67 |
| | | | | PM | 0.13 | 0.56 |
| | | | | PM_{10} | 0.51 | 2.23 |
| | | | | $\mathrm{PM}_{2.5}$ | 0.51 | 2.23 |
| | | | | NOx | 2.14 | 9.38 |
| Boiler #1 | | | | СО | 5.62 | 24.64 |
| (B1) | Natural Gas | 8,760 | | SO_2 | 0.04 | 0.18 |
| | | | | VOC | 0.37 | 1.61 |
| | | | | Pb | 3.35E-05 | 1.47E-04 |
| | | | | CO_2 | 7812.6594 | 34,219.448 |
| | | | | $\mathrm{CH_4}$ | 0.1339 | 0.5866 |
| | | | | N ₂ O | 0.0134 | 0.06 |
| | | | | CO ₂ e | 7,819.998 | 34,251.591 |
| | | | | Cond. PM | 0.38 | 1.67 |
| | | | | PM | 0.13 | 0.56 |
| | | | | PM_{10} | 0.51 | 2.23 |
| | | | | PM _{2.5} | 0.51 | 2.23 |
| | | | | NOx | 2.14 | 9.38 |
| Do:10=#2 | | | | СО | 5.62 | 24.64 |
| (B2) | Natural Gas | 8,760 | | SO_2 | 0.04 | 0.18 |
| | | | | VOC | 0.37 | 1.61 |
| | | | | Pb | 3.35E-05 | 1.47E-04 |
| | | | | CO_2 | 7812.66 | 34219.45 |
| | | | | CH ₄ | 0.1339 | 0.5866 |
| | | | | N ₂ O | 0.0134 | 0.0587 |
| | | | | CO ₂ e | 7,812.677 | 34,219.526 |

Attachment B - Emission Inventory Pilgrim's Pride Corporation - Gadsden Animal Feed Ingredients Gadsden, Alabama

PUBLIC/REDACTED

| | | | | | (10.1.0.1) | (RTOI) | OT S | | | | | | Regenerative Thermal Oxidizer Combustion Emissions | | _ | | | | (83) | Boiler #3 | 1 | | | | | | Emission Source (Emission Unit ID) |
|-------------------|------------------|-----------------|----------|----------|------------|-------------|-------|-----------------|-------------------|-----------|-------|----------|--|-------------------|--------|-----------------|----------|----------|------|-------------|-------|--------|------------|-----------|------|----------|---------------------------------------|
| | | | | | | Natural Gas | | | | | | | bustion Emissions | | | | | | | Natural Gas | | | | | | | Material Output |
| | | | | | | 8,760 | | | | | | • | | | | | | | | 8,760 | | | - | | | | Max Annual Operating Hours |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Emissions Control |
| CO ₂ e | N ₂ O | CH_4 | CO_2 | Pb | VOC | SO_2 | СО | NO _x | PM _{2.5} | PM_{10} | PM | Cond. PM | 1 | CO ₂ e | N_2O | CH ₄ | CO_2 | Pb | VOC | SO_2 | CO | NO_X | $PM_{2.5}$ | PM_{10} | PM | Cond. PM | Pollutant Type |
| 280.032 | 0.0005 | 0.0048 | 280.0320 | 1.20E-06 | 0.013 | 0.001 | 0.202 | 0.240 | 0.018 | 0.018 | 0.005 | 0.014 | | . 7,812.659 | 0.0134 | 0.1339 | 7812.66 | 3.35E-05 | 0.37 | 0.04 | 5.62 | 2.14 | 0.51 | 0.51 | 0.13 | 0.38 | Emission Rate (Lbs/Hr) |
| 1,226.540 | 0.0021 | 0.0210 | 1,227 | 5.26E-06 | 0.06 | 0.01 | 0.88 | 1.05 | 0.08 | 0.08 | 0.02 | 0.06 | | 34,219.448 | 0.0587 | 0.5866 | 34219.45 | 1.47E-04 | 1.61 | 0.18 | 24.64 | 9.38 | 2.23 | 2.23 | 0.56 | 1.67 | Emission Rate (Tons/yr) |

Attachment B - Emission Inventory
Pilgrim's Pride Corporation - Gadsden Animal Feed Ingredients
Gadsden, Alabama PUBLIC/REDACTED

| 0.318 | 0.072 | VOC | | 8,760 | No. 2 Fuel Oil | Aboveground Fuel Storage Tank (AST1) |
|-------------------------------|---------------------------|-------------------|-------------------|-------------------------------|------------------------|---------------------------------------|
| 0.05 | 0.040 | PM ₁₀ | | 8,760 | Finished Poultry Meals | Truck Load-Out of Meal (LO1) |
| | | | | | | Miscellaneous Sources |
| Emission Rate (Tons/yr) | Emission Rate (Lbs/Hr) | Pollutant Type | Emissions Control | Max Annual Operating Hours | Material Output | Emission Source (Emission Unit ID) |

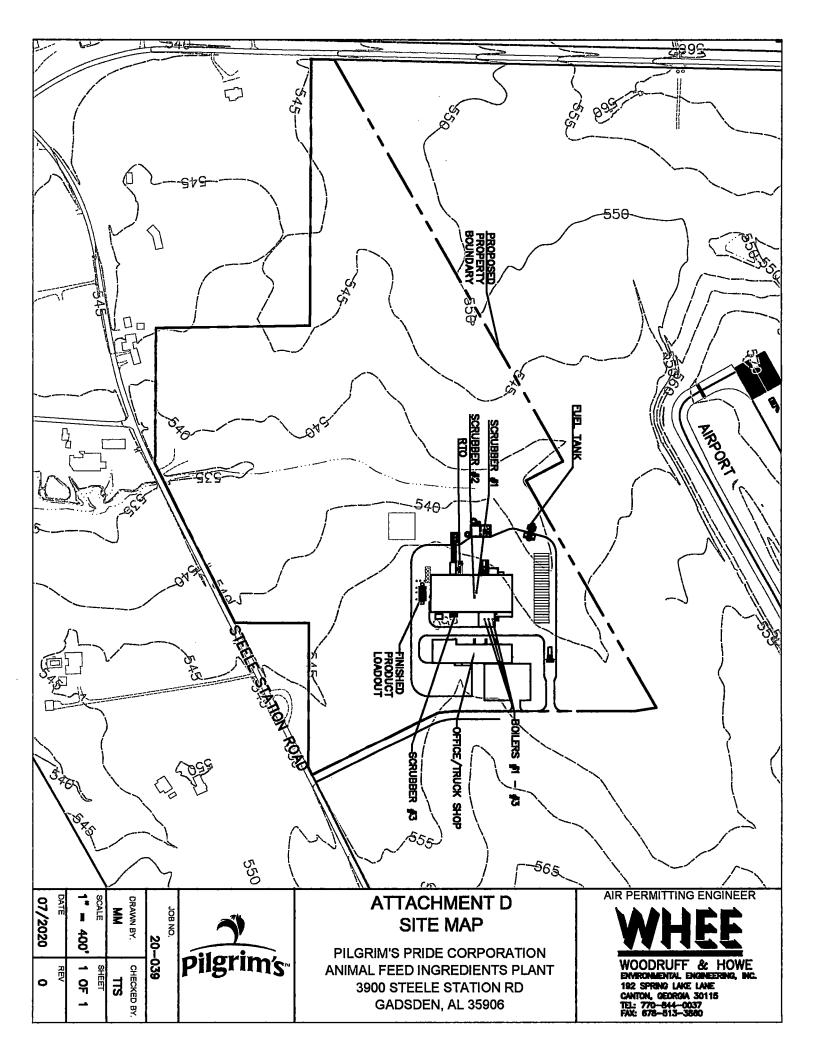
| En | Emissions Summary |
|---------------------------|-----------------------------|
| | Emission Rate PTE (Tons/yr) |
| Cond. PM | 15.6 |
| PM | 4.98 |
| PM_{10} | 19.57 |
| PM _{2.5} | 18.24 |
| NO_X | 37.45 |
| CO | 74.79 |
| SO_2 | 0.53 |
| VOC | 150.52 |
| NH_3 | 4.58 |
| $ m H_2S$ | 1.99 |
| CO_2 | 103,885 |
| CH_4 | 1.781 |
| N_2O | 0.178 |
| $\mathrm{CO}_2\mathrm{e}$ | 103,917 |

Attachment C

Process Flow Diagram (REDACTED)

Attachment D

Site Map



Attachment E

Manufacturer Information

SECTION 2.0 1,600 HP PACKAGE - GENERAL INFORMATION

Three (3) Victory Energy, "Frontier" Series, Model: F2-WB-1600-S165-Vision Low NOx Natural Gas Burner.

The unit(s) will include the following

Quantity:

Capacity

Design:

Heating Surface

"Integral" economizer

Design Pressure:

Three (3) Boiler

1,600 HP

Wetback

5,881 SQ.FT. of heating surface

2570 SQ.FT. of heating surface

165 PSI

Design Tressure: 105 Fb1
 Operating Pressure: 135 PSI – NRV Outlet

➤ Burner:

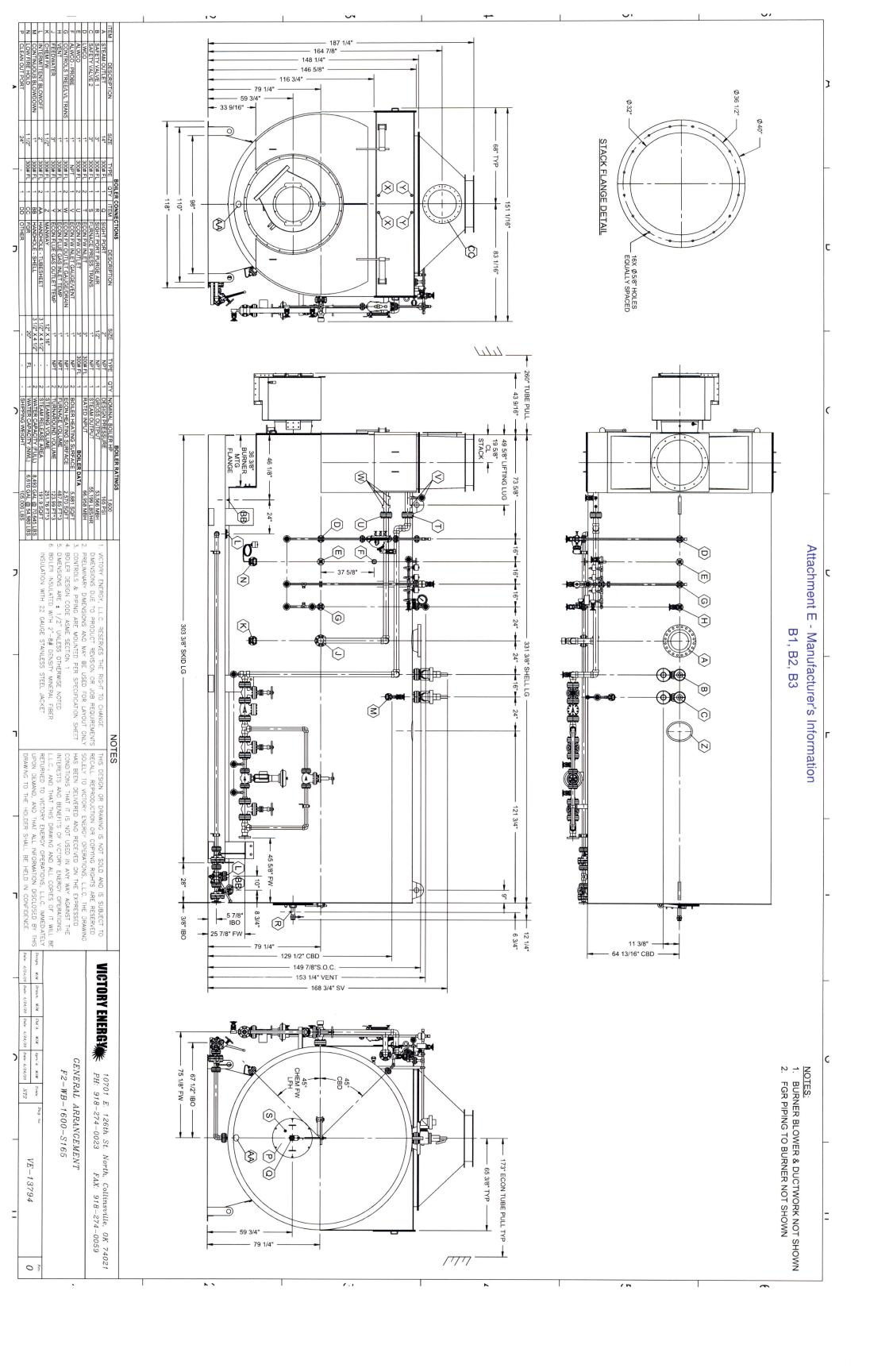
| 0 | Primary Fuel: | Natural Gas |
|---|------------------------------|--------------------------------|
| | > 2 nd fuel type: | |
| 0 | NOx requirements: | |
| 0 | Turn Down Ratio: | (10:1) |
| 0 | Electrical: | 460/60/3 |
| | o Control Circuit: 1 | 20/60/1 |
| 0 | Regulated Gas pressure: | 20 PSIG TO INLET OF GAS TRAIN. |
| 0 | Codes: | |
| 0 | Flue Gas Recirculation | Yes |
| 0 | Boiler Location: | Indoors (NEMA 4) |

GENERAL DATA

- 2-Pass, Scotch Marine Firetube Boiler.
- Built to ASME Code Section I and National Board Rules.
- Tubesheet Thickness: .75" Thick SA516-70
- Tube Wall Thickness: .105"MW x 2.5"OD All "rifled" Tubes
- Full Skid Base.
- 2" Insulation and "Stainless Steel" jacket on boiler shell.
- Davited front & Rear flue gas doors.
- Front and rear observation ports.

TOC

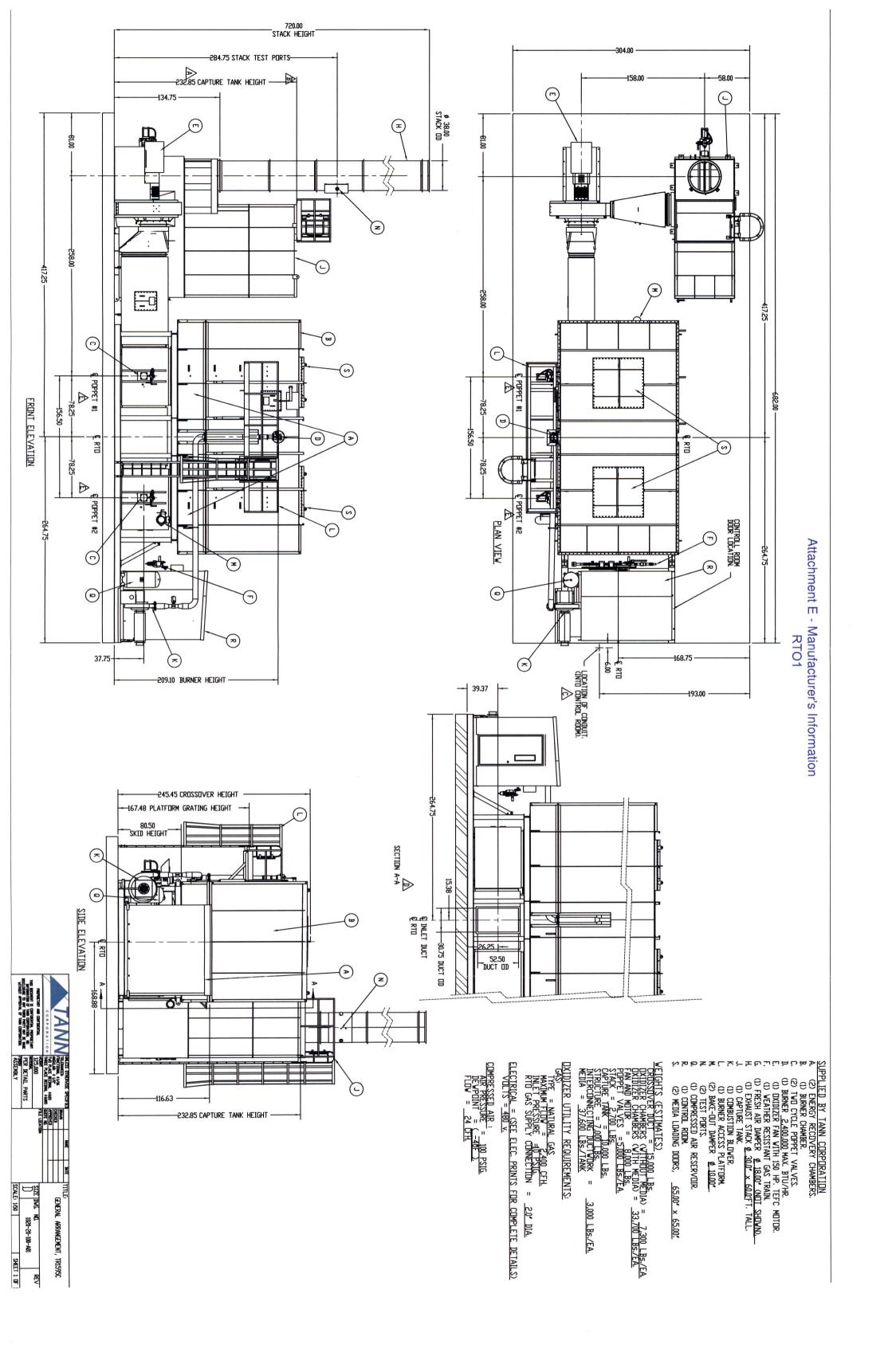
Proposal No.: VE-13794–1600HP Firetube



Attachment E - Manufacturer's Information RTO1

The thermal oxidizer will be:

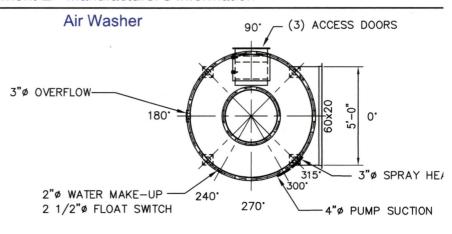
| Tann (| Corporation model TR1595C ra | ated capacity is 15,0 | 00 SCFM | |
|--------|--|-----------------------|---------------|--|
| 1.1 | Oxidizer Capacity | 15,000 SCFM | 15,000 SCFM | |
| 1.2 | Thermal Efficiency | 95% Nominal | | |
| 1.3 | Maximum VOC Concentrati | ion 185 lbs/hr at fu | ll capacity | |
| | Based on 15,000 Btu's/lb | | | |
| 1.4 | VOC Destruction Efficiency: | 97% | | |
| 1.5 | Natural Gas or Propane: | Natura | Natural Gas | |
| 1.6 | Burner Rated Capacity 2,400,000 Btu's/hr | | | |
| 1.7 | Power Requirement: | 480 v 3 Phase | | |
| 1.8 | Compressed Air Requireme | nt 24 CFH | | |
| 1.9 | Main Exhaust Fan Motor | 150 hp TEFC | | |
| 1.10 | Main Fan Local Disconnect | Yes, Included | | |
| 1.11 | Main Fan Insulation and Cladding | | Yes, included | |
| 1.12 | Variable Frequency Drive | Allen Bradley | | |
| 1.13 | VFD with Fused Disconnect | Yes, Included | | |
| 1.14 | VFD Enclosure | Yes, included | | |
| 1.15 | Combustion Blower 7 h | p | | |
| 1.16 | CB Local Disconnect Yes | s, Included | | |
| 1.17 | RTO Footprint 43 ft by 21 | ft | | |
| 1.18 | RTO Stack Height 60' | 60' (diameter is 30") | | |
| 1.19 | Venturi scrubber prior to the RTO | | | |



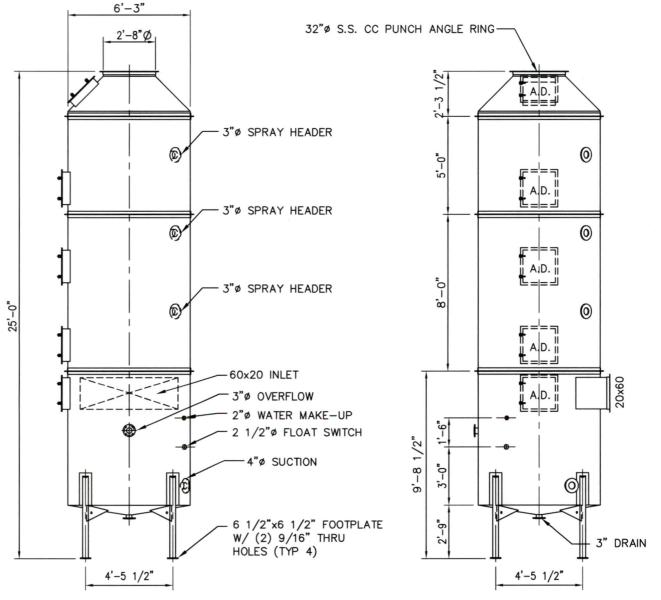
NOTES:

- UNIT SHIPPING WEIGHT IS 4,980 LBS.
 UNIT FLOODED WEIGHT IS 14,875 LBS.
- 3. TANK NOZZLE: BETE TF64.
- 4. MIST ELIMINATOR: MUNTERS T-271 PP.
- 5. FLOAT SWITCH: JO-BELL L-1-53-1-44A.
 6. COMPONENTS AND SIZING ARE PRELIMINARY

| SOURCE | FLOW RATE | | |
|----------|-----------|--|--|
| RECIRC | 200 GPM | | |
| BLOWDOWN | 1 GPM | | |



ORIENTATION OF SCRUBBER SCALE: 3/16" = 1'-0"



ELEVATION OF SCRUBBER SCALE: 3/16" = 1'-0"

Attachment E - Manufacturer's Information Scrubbers #1 and #2

RENDEQUICA

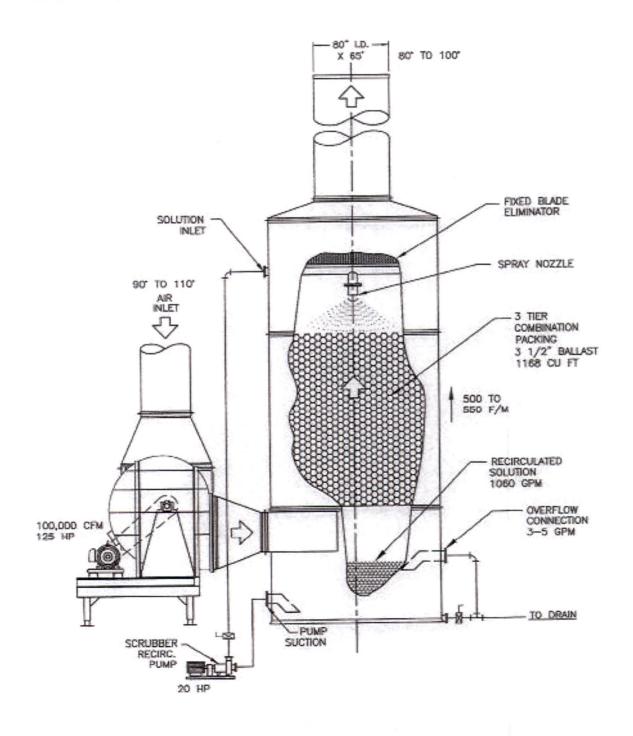
1813 Frank S. Holt Dr., Burlingson, NC 27215 Phone: (336) 226-1100; Fax (336) 270-5357 E-mail: rendeq@bellsouth.net or chip@rendeq.com

Web Site: www.rendeq.com

SUBJECT RASCU-100 51 & 52

TYPICAL SCRUBBER ARRANGEMENT

PUSH THRU



Attachment E - Manufacturer's Information Scrubbers #1 and #2

RENDEQ, INC.

ROOM AIR SCRUBBER SPECIFICATIONS

MODEL NO.

RASCU-100

| SCRUBBER TYPE: | VERTICAL FLO | W PACKED B | ED |
|---|--|----------------|--------------|
| CAPACITY: | 100,000 CFM | | |
| APPROXIMATE AIR INLET TEMP: | 100 | °F. | |
| APPROXIMATE AIR OUTLET TEMP.: | 90 | °F. | |
| SCRUBBER DIMENSIONS | 13-6x26-4 1/2 | | |
| PACKING (POLYPROPYLENE BALLAST - 3 TIER) | 3 1/2* | | |
| PACKING DEPTH | 8 | tt | |
| PACKING CU. FT. | 1,168 | | |
| AIR INLET AREA | 47.91 | sq. ft. | |
| AIR OUTLET DIAMETER | 108 | | |
| AIR VELOCIY THROUGH PACKING | 500 to 550 | FM (AT RATE | ED CAPACITY) |
| LIQUID RECYCLE RATE | 1060 gpm | | |
| APPROXIMATE LIQUID RECYCLE TEMP. | 90 | | |
| ESTIMATED WATER MAKE-UP | 4-7 GPM | 1 | |
| | 20-50 PPM | | |
| RESIDUAL RECYCLE CHLORINE | 7.0-10.2 | | |
| pH OF RESIDUAL LIQUID | NaOC115% SOLUTION | NaOH | 50% SOLUTION |
| CHEMICAL REQUIRED: | 304 S.S | | 00,0000000 |
| SCRUBBER HOUSING MATERIAL (ABOVE SUMP) | 316 S.S | | |
| SCRUBBER SUMP MATERIAL | 304 S.S. (PARTS IN CONTACT WITH AIR STREAM) | | |
| SCRUBBER FAN MATERIAL | 125.00 | | |
| | | | |
| | | | |
| | The second secon | | |
| | | and the second | |
| SCRUBBER FAN HP SCRUBBER PUMP MATERIAL SCRUBBER PUMP HP MIST ELIMINATOR TYPE MIST ELIMINATOR MATERIAL | 316 S.S. 20.00 FIXED BLADE NORYL | | |
| | | (A) | |

APPROXIMATE OPERATING WT.

Attachment E - Manufacturer's Information Scrubber #3

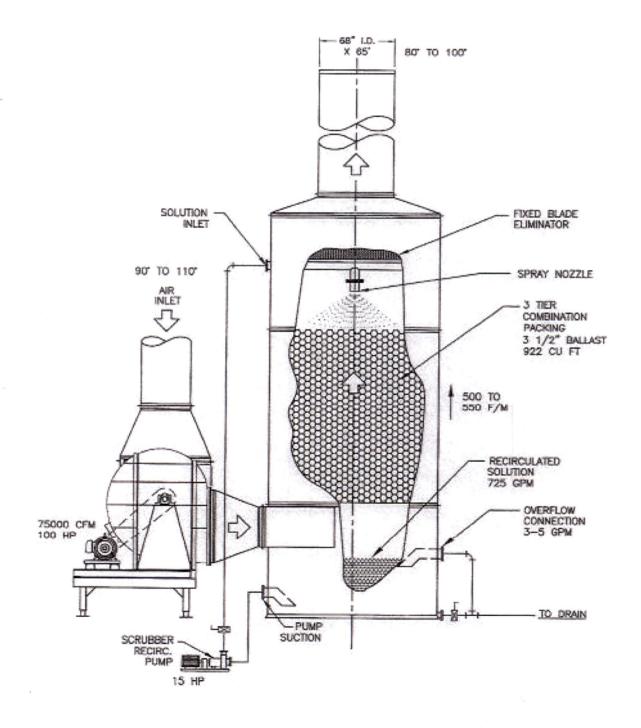
RENDEQUICA

1813 Frank S. Holt Dr., Burlington, NC 27215 Phone: (336) 226-1100; Fax (336) 270-5357 E-mail: rendeq@bellsouth.net or chip@rendeq.com

Web Site: www.rendeq.com

SUBJECT RASCU-075 53

TYPICAL SCRUBBER ARRANGEMENT
PUSH THRU



Attachment E - Manufacturer's Information Scrubber #3

RENDEQ, INC.

ROOM AIR SCRUBBER SPECIFICATIONS

MODEL NO.

RASCU-075

| SCRUBBER TYPE: | VERTICAL FLO | W PACKED BED |
|--|------------------|-------------------------------|
| CAPACITY: | 75,000 CFM | |
| APPROXIMATE AIR INLET TEMP .: | 100 | °F. |
| APPROXIMATE AIR OUTLET TEMP.: | 90 | ° F. |
| SCRUBBER DIMENSIONS | 12x25-5 1/2 | |
| PACKING (POLYPROPYLENE BALLAST - 3 TIER) | 3 1/2" | |
| PACKING DEPTH | 8 | n |
| PACKING CU. FT. | 922 | |
| AIR INLET AREA | 37.33 | sq. ft. |
| AIR OUTLET DIAMETER | 68* | |
| AIR VELOCIY THROUGH PACKING | 500 to 550 | F/M (AT RATED CAPACITY) |
| LIQUID RECYCLE RATE | 725 gpm | |
| APPROXIMATE LIQUID RECYCLE TEMP. | 90 | |
| ESTIMATED WATER MAKE-UP | 3-6 GPM | |
| RESIDUAL RECYCLE CHLORINE | 20-50 PPM | |
| pH OF RESIDUAL LIQUID | 7.0-10.2 | |
| CHEMICAL REQUIRED: | NeOCH5% SOLUTION | NaOH 50% SOLUTION |
| SCRUBBER HOUSING MATERIAL (ABOVE SUMP) | 304 S.S | |
| SCRUBBER SUMP MATERIAL | 316 S.S | |
| SCRUBBER FAN MATERIAL 304 S.S. (PARTS IN C | | S IN CONTACT WITH AIR STREAM) |
| SCRUBBER FAN HP | 100.00 | |
| SCRUBBER PUMP MATERIAL | 316 S.S. | |
| SCRUBBER PUMP HP | 15.00 | |
| MIST ELIMINATOR TYPE | FIXED BLADE | |
| MIST ELIMINATOR MATERIAL | NORYL | |
| | | |

APPROXIMATE OPERATING WT.

Odor and VOC Control Technologies

HOME

SERVICES

PRODUCT APPLICATIONS

TECHNICAL PAPERS

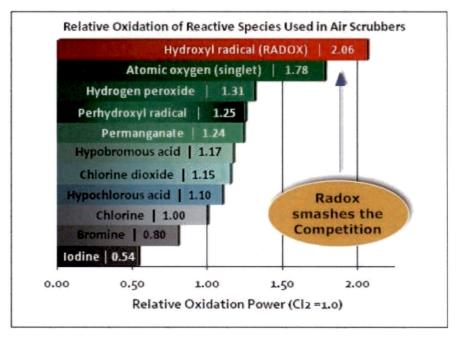
ABOUT US





RADOX-23: The Clear Leader in Air Scrubber Technology

Steen Research holds the exclusive patents on hydroxyl radical generation, RADOX-23, the strongest oxidizer known for use in air scrubbers. Compare the strength of RADOX-23 to the leading super-oxidizers:



RADOX-23 is proven highly effective in drastically reducing odor emissions and is unmatched in reducing facility operational costs. RADOX-23 utilizes advanced oxidation methodology to eliminate noxious odor causing compounds, VOCs, and environmentally detrimental by-products such as haloamines and trihalomethanes. RADOX-23 contains state of the art surfactancy and dispersion power to clean and maintain aqueous air scrubber systems.

Abstract From USDA Study

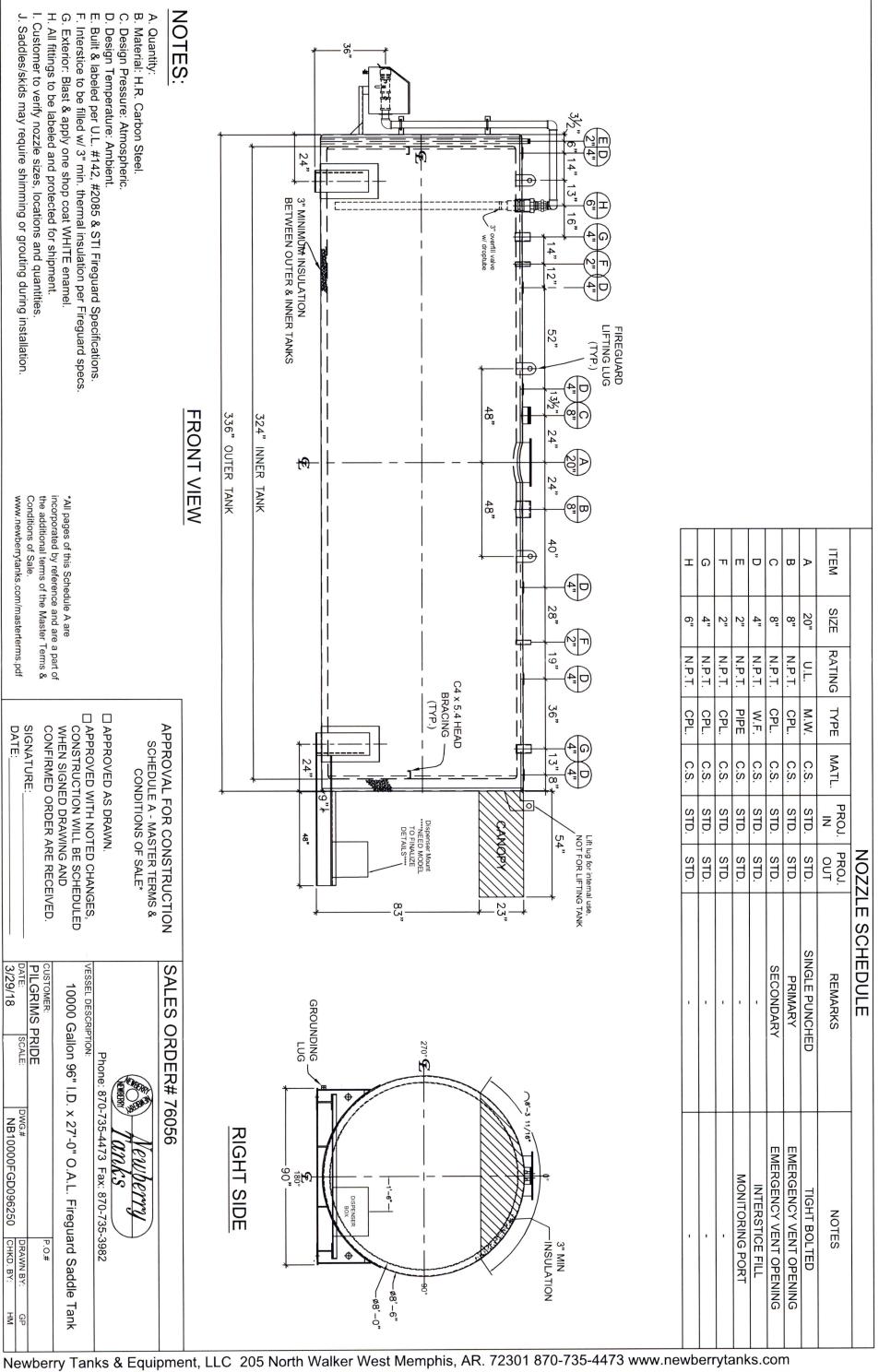
"The **RADOX** catalyst was shown to be significantly more effective than chlorine dioxide (ClO2) for reducing the concentration of malodorous VOC and total VOC emitted from poultry rendering. Samples from **RADOX**-treated air streams had (1) a 42±14% (the average plus or minus the standard deviation) higher concentration of carbon dioxide (CO2), (2) 69±9% lower concentrations of the highly aldehyde compounds, and (3) 52±13% lower total VOC when compared to untreated, or ClO2-treated samples. The concentration of highly malodorous aldehyde compounds, which were responsible for a majority of the poultry rendering odor, were not changed by the ClO2 treatment.

Additionally, there was a 5-fold higher concentration of indole in the ClO2 samples when compared to **RADOX**-treated samples. This is important because indole is a highly odorous metabolite from protein degradation that has an odor threshold of 0.0019 mg/m3 (Zahn et al., 2001). The **RADOX** treatment reduced the total perceived odor intensity by 74±19%, while the ClO2 treatment did not significantly alter the odor intensity."

From the USDA study <u>Effect Of A Packed-Bed Scrubber Using Radox</u>
<u>Catalyst On The Emission of Odors And Volatile Organic Compounds From A Commercial Poultry Rendering Plant</u> by Zahn et al., 2002

www.steenresearch.com 1/2





This drawing may contain <u>CONFIDENTIAL</u> information and is intended only for the use of the specific individual(s) to which it is addressed

B. Material: H.R. Carbon Steel.
C. Design Pressure: Atmospheric.
D. Design Temperature: Ambient.
E. Built & labeled per U.L. #142, #20
F. Interstice to be filled w/ 3" min. the

Quantity:

G. Exterior: Blast & apply Ulie Silve Constitutions to be labeled and protected for shipment.

H. All fittings to be labeled and protected for shipment.

incorporated by reference and are a part of the additional terms of the Master Terms &

*All pages of this Schedule A are

☐ APPROVED WITH NOTED CHANGES, CONSTRUCTION WILL BE SCHEDULED

ESSEL DESCRIPTION

10000 Gallon 96" I.D. x 27'-0" O.A.L. Fireguard Saddle Tank

870-735-4473 Fax: 870-735-3982

CONFIRMED ORDER ARE RECEIVED. WHEN SIGNED DRAWING AND

CUSTOMER:
PILGRIMS PRIDE
SCALE:

DATE: 3/29/18

필위

☐ APPROVED AS DRAWN.

APPROVAL FOR CONSTRUCTION SCHEDULE A - MASTER TERMS & CONDITIONS OF SALE*

www.newberrytanks.com/masterterms.pdf

SIGNATURE:

Built & labeled per U.L. #142, #2085 & STI Fireguard Specifications. Interstice to be filled w/ 3" min. thermal insulation per Fireguard specs. Exterior: Blast & apply one shop coat WHITE enamel.

Customer to verify nozzle sizes, locations and quantities

Saddles/skids may require shimming or grouting during installation.

Attachment F

Emission Factors and References (Redacted)

REDACTED

Emissions Factors and References

Attachment G

Federal and State Regulations

Attachment G - Federal and State Regulations

Pilgrim's Pride Corporation Animal Feed Ingredients Plant Gadsden, Alabama

Prevention of Significant Deterioration (PSD) Applicability

The PSD regulations are contained in 40 CFR 52.21 and 335-3-14-.04. The Facility does not belong to any one of the 28 source categories listed in the regulations. The Facility's maximum controlled emissions will be less than 250 tons per year.

Compliance Assurance Monitoring (CAM) Applicability

CAM requirements are contained in 40 CFR 64. We believe there are no Pollutant Specific Emission Units (PSEU's), that when considered separately, have the potential to emit greater than 100 tons/year. Proposed air pollution control device monitoring parameters are included on the respective Form 110's.

Regulations

Boiler #1 - 1,600 HP Boiler; Boiler #2 - 1,600 HP Boiler; Boiler #3 - 1,600 HP Boiler

- 40 CFR 60, Subpart Dc
 - 40 CFR 60.48c(g)(3), 40 CFR 60.48c(i)
- 40 CFR 63, Subpart JJJJJJ **Not Applicable**

Boilers are defined as "gas-fired boilers" under 40 CFR 63 - Subpart JJJJJJ and will therefore not be subject to 40 CFR 63 - Subpart JJJJJJ (per 40 CFR 63.11195 and 40 CFR 63.11237).

- 335-3-4-.03 (PM: Fuel Burning Equipment Class I County)
- 335-3-5-.01 (SOx: Fuel Combustion Category II County)

Animal Feed Ingredients Processing Operations

- 335-3-4-.04 (PM: Process Industries General Class I County)
- 335-3-5-.05 (SOx: Process Industries General Category II County)
- 335-3-6-.03 (Loading and Storage of VOC) Not Applicable. Diesel fuel and poultry fat have a true vapor pressure less than 1.5 psia.

There are no known NSPS or NESHAP regulations pertaining to animal feed ingredient production operations.

Entire Facility

- 335-3-4-.01 (PM: Fugitive Emissions)
- 335-3-4-.02 (PM: Fugitive Dust and Fugitive Emissions)

General Permitting Procedures

- 335-3-14 (As applicable)
- 335-3-16 (As applicable)

^{*}Other federal and state regulations may apply in addition to those shown above. Please note that there are no plans to install emergency generators or other stationary internal combustion engines at this time.

Attachment H

Compliance Plan and Certification

Attachment H - Compliance Plan and Certification

Pilgrim's Pride Corporation Animal Feed Ingredients Plant Gadsden, AL

Compliance Plan

This Compliance Plan is in general accordance with the Alabama Department of Environmental Management (ADEM) Administrative Code Regulation (ACR) 335-3-16-.04(8)(h). Pilgrim's Pride Corporation (Pilgrim's) will comply with the applicable requirements identified in this permit application for the Gadsden Facility.

- 1) Pilgrim's is constructing the Facility to comply with known regulations and requirements as shown in **Attachment G Federal and State Requirements** and summarized on Form 103. The Facility will comply with these requirements upon startup.
- 2) Current Compliance Status Not Applicable
- 3) Pilgrim's will meet new applicable requirements that may become effective during the permit term in a timely manner. If required, Pilgrim's will provide a detailed schedule for compliance with new/future permit terms.
- 4) The following measures will be taken on every **operating** day to ensure ongoing compliance with the above regulations:
 - ✓ Monitoring of <u>Scrubber #1</u> performance including, but not limited to:
 - o Scrubbant recirculation rate: 1,000-1,250 gpm
 - o Scrubbant ORP: To Be Determined
 - o Scrubbant pH, as applicable
 - o Differential pressure across scrubber: 1"-6" w.c.
 - ✓ Monitoring of Scrubber #2 performance including, but not limited to:
 - o Scrubbant recirculation rate: 1,000-1,250 gpm
 - o Scrubbant ORP: To Be Determined
 - o Scrubbant pH, as applicable
 - o Differential pressure across scrubber: 1"-6" w.c.
 - ✓ Monitoring of <u>Scrubber #3</u> performance including, but not limited to:
 - o Scrubbant recirculation rate: 600 750 gpm
 - o Scrubbant ORP: To Be Determined
 - o Scrubbant pH, as applicable
 - o Differential pressure across scrubber: 1"-6" w.c.
 - ✓ Monitoring of <u>RTO</u> performance including, but not limited to:
 - o Combustion zone temperature: $1,400 \, ^{\circ}\text{F} 1,600 \, ^{\circ}\text{F}$
 - ✓ Monitoring of <u>Air Washer</u> performance including, but not limited to:
 - O Water recirculation rate: Meet a minimum rate of 150 gpm.

Attachment H - Compliance Plan and Certification

Pilgrim's Pride Corporation Animal Feed Ingredients Plant Gadsden, AL

- ✓ Monitoring of Boiler #1, #2 and #3 performance including, but not limited to:
 - o Records of Facility-wide natural gas use
 - o Records of construction and start-up
- ✓ Facility-wide monitoring including, but not limited to:
 - o Records of finished meal production
 - o Records of finished poultry fat
 - o Records of moisture content in finished animal feed ingredient meals and fat

Annual Compliance Certification

The Facility will annually submit to ADEM a document certifying the compliance status relative to the requirements of the Title V Operating Permit. The Annual Title V Compliance Certification will be made using forms/templates as provided by ADEM.

Certification of Truth, Accuracy and Completeness

Based on information and belief formed after reasonable inquiry, the statements and information in this Permit Application document are true, accurate, and complete.

Mark Glover
Head of By Product/MSC

Date

Attachment I

Trivial and Insignificant Activities List

Attachment I - Trivial and Insignificant Activities List

Pilgrim's Pride Corporation Animal Feed Ingredients Plant Gadsden, AL

Trivial activities that may be present at the Pilgrim's facility include but are not limited to:

A. Fuel Use:

- (1) Fuel burning equipment of less that 500,000 Btu/hour capacity,
- (2) Production of hot water for on-site personal use not related to any industrial process; and
- (3) Fuel use related to food preparation for on-site consumption.

B. Plant Upkeep:

- (1) Routine housekeeping or plant upkeep activities such as painting buildings, retarring roofs or paving parking lots; and
- (2) Clerical activities such as use of office supplies or operating copy machines and document printers, except operation of such units on a commercial basis.

C. Fabrication Operations:

- (1) Equipment used for the inspection of metal products;
- (2) Equipment used exclusively for forging, pressing, drawing, spinning, or extruding cold metals;
- G. Cleaning Operations: Alkaline/phosphate cleaners and associated cleaners and associated burners.

K. Miscellaneous:

- (3) Fugitive dust emissions from operations of a passenger automobile, station wagon, pickup truck, van or any other vehicle not exclusively operated at a stationary source.
- (5) Air compressors
- M. Internal combustion engines in mobile vehicles
- N. Non-contact water cooling towers
- O. Small capacity storage (tote bins, drums)
- P. Steam-only vent lines
- Q. Trivial Activities of the Pulp and Paper Industry (can be used by other industries if applicable)
 - (29) Parts washer
 - (45) Sodium hypochlorite storage tanks
 - (49) Sulfuric acid tanks
- R. Trivial Activities of the Electrical Generating Industry (can be used by other industries if applicable)
 - (1) Fuels and Material Handling
 - a. Gasoline and fuel oil transfer and dispensing

Attachment I - Trivial and Insignificant Activities List

Pilgrim's Pride Corporation Animal Feed Ingredients Plant Gadsden, AL

- (2) Water and wastewater treatment, handling and storage process
- (4) Maintenance
 - b. Activities related to the construction and routine maintenance and repair of facility where emissions would not be associated with a primary production process of the facility (e.g., cleaning, insulation, solvent use, steam cleaning, painting, degreasing, washing, welding, vacuuming, coating, sweeping, abrasive use, removal of insulation).
 - c. HVAC and refrigeration
 - d. Vehicle and machinery (includes sanding, grinding, cleaning, painting, buffing and polishing of equipment).
- U. Trivial Activities of the Textile Industry (can be used by other industries if applicable)
 - (3) Used oil storage and handling.
 - (7) Non-routine clean out of tanks and equipment for purposes of worker entry or in preparation for maintenance or decommissioning.
- V. Trivial Activities of Iron & Steel Foundries (can be used by other industries if applicable)
 - (3) Cooling Ponds
 - (6) Dumpster
 - (13) Oiling and Greasing for Maintenance
 - (17) Process (non-contact) Water Cooling Towers and Lagoons
- W. Trivial Activities of Secondary Aluminum Industries (can be used by other industries if applicable)
 - (1) Waste or Used Oil Tanks Less Than 10,000 gal
 - (7) Sodium Hypochlorite Tanks
 - (8) Sodium Hydroxide Tanks
 - (9) Kerosene Tanks Less Than 10,000 gal
 - (12) Diesel Tanks Less Than 10,000 gal
 - (14) Polymer Tanks for Wastewater Treatment
- X. Trivial Activities of the Petroleum Refining Industry (can be used by other industries if applicable)
 - (1) Fuels and Material Handling
 - a. Gasoline, diesel, and fuel oil dispensing to mobile sources/emergency equipment/maintenance equipment
 - b. Petroleum storage tanks, <250 barrels, not subject to NSPS, and associated containment
 - (2) Stormwater System
 - a. Non-process sumps

Attachment I - Trivial and Insignificant Activities List

Pilgrim's Pride Corporation Animal Feed Ingredients Plant Gadsden, AL

b. Open or covered drainage troughs from process areas for rainwater handling

(4) Maintenance

- a. Activities related to the construction, maintenance, and repair of the facility where emissions would not be associated with a primary production process of the facility (e.g., cleaning, insulation, solvent use, steam cleaning, equipment draining and steam out, painting, degreasing, washing, welding, cutting, vacuuming, coating, sweeping, abrasive use, and removal of non-asbestos insulation)
- b. HVAC and refrigeration
- g. Asphalt or concrete paving activities and maintenance
- h. Plant vehicle and equipment maintenance
- i. Pest and weed control

Insignificant activities that may be present at the Pilgrim's facility include but are not limited to:

- B. Fabrication Operations: Equipment used exclusively for forging, pressing, drawing, spinning, or extruding hot metals.
- F. Emissions form a laboratory, as defined in this item. "Laboratory" means a place or activity devoted to experimental study or teaching in any science, or to the testing and analysis of drugs, chemicals, chemical compounds, or other substances, or similar activities described in this sentence are conducted on a laboratory scale. Activities are conducted on a laboratory scale if the containers used for reactions, transfers, and other handling of substances are designed to be easily and safely manipulated by one person. If a facility manufactures or produces products for profit in any quantity, it may not be considered to be a laboratory under this item. Support activities necessary to the operation of the laboratory are considered to be part of the laboratory. Support activities do not include the provision of power to the laboratory from sources that provide power to multiple projects or from sources which would otherwise require permitting, such as boilers that provide power to an entire facility.
- G. Miscellaneous:
 - (3) Brazing, soldering or welding equipment;
 - (4) Blueprint copiers and photographic processes;
- I. Insignificant Activities of the Electrical Generating Industry (can be used by other industries if applicable)
 - (2) Cooling towers
 - (4) Operations
 - a. Boiler room ventilation
- N. Insignificant Activities of the Petroleum Refining Industry (can be used by other industries if applicable)
 - (1) Operations