

**CLASS II ADMINISTRATIVE UPDATE TO
REGULATION 13 PERMIT R13-1863D
FOR THE
MOOREFIELD PREPARED FOODS PLANT**

Prepared for:

Pilgrim's Pride Corporation
214 South Main Street
Moorefield, West Virginia 26836

Prepared by:

Potesta & Associates, Inc.
7012 MacCorkle Avenue, S.E.
Charleston, West Virginia 25304
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Project No. 0101-16-0146

May 2016

POTESTA

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GENERAL INFORMATION



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

601 57th Street, SE
 Charleston, WV 25304
 (304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
 AND
 TITLE V PERMIT REVISION
 (OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):

- CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):

- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office):
 Pilgrim's Pride Corporation

2. Federal Employer ID No. (FEIN):
 751285071

3. Name of facility (if different from above):
 Moorefield Prepared Foods Plant

4. The applicant is the:
 OWNER OPERATOR BOTH

5A. Applicant's mailing address:
 214 South Main Street
 Moorefield, West Virginia 26836

5B. Facility's present physical address:
 214 South Main Street
 Moorefield, West Virginia 26836

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? YES NO
 ⇨ If YES, provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A**.
 ⇨ If NO, provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A**.

7. If applicant is a subsidiary corporation, please provide the name of parent corporation: NA

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site*? YES NO
 ⇨ If YES, please explain: Own
 ⇨ If NO, you are not eligible for a permit for this source.

9. Type of plant or facility (stationary source) to be **constructed, modified, relocated, administratively updated** or **temporarily permitted** (e.g., coal preparation plant, primary crusher, etc.): Prepared Foods Plant

10. North American Industry Classification System (NAICS) code for the facility:
 311615

11A. DAQ Plant ID No. (for existing facilities only):
 031-00010

11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):
 R13-1863D

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

<p>12A.</p> <p>⇒ For Modifications, Administrative Updates or Temporary permits at an existing facility, please provide directions to the <i>present location</i> of the facility from the nearest state road;</p> <p>⇒ For Construction or Relocation permits, please provide directions to the <i>proposed new site location</i> from the nearest state road. Include a MAP as Attachment B.</p> <p>Take the Moorefield exit off of US 48 (Corridor H) at Moorefield, West Virginia. Take a left turn onto US 220 (Main Street) headed south. The plant is located adjacent to US 220 (South Main Street) in Moorefield.</p>		
12.B. New site address (if applicable): NA	12C. Nearest city or town: Moorefield	12D. County: Hardy
12.E. UTM Northing (KM): 4,325	12F. UTM Easting (KM): 675.7	12G. UTM Zone: 17
13. Briefly describe the proposed change(s) at the facility: Replacement of one boiler.		
14A. Provide the date of anticipated installation or change: 07/05/2016 ⇒ If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen:		14B. Date of anticipated Start-Up if a permit is granted: 07/05/2016
14C. Provide a Schedule of the planned Installation of/ Change to and Start-Up of each of the units proposed in this permit application as Attachment C (if more than one unit is involved).		
15. Provide maximum projected Operating Schedule of activity/activities outlined in this application: 24 Hours Per Day 7 Days Per Week 52 Weeks Per Year		
16. Is demolition or physical renovation at an existing facility involved? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
17. Risk Management Plans. If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your Risk Management Plan (RMP) to U. S. EPA Region III.		
18. Regulatory Discussion. List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (<i>if known</i>). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (<i>if known</i>). Provide this information as Attachment D .		
Section II. Additional attachments and supporting documents.		
19. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).		
20. Include a Table of Contents as the first page of your application package.		
21. Provide a Plot Plan , e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as Attachment E (Refer to Plot Plan Guidance). Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).		
22. Provide a Detailed Process Flow Diagram(s) showing each proposed or modified emissions unit, emission point and control device as Attachment F .		
23. Provide a Process Description as Attachment G . Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).		
<i>All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.</i>		

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.
 For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

<input type="checkbox"/> Bulk Liquid Transfer Operations	<input type="checkbox"/> Haul Road Emissions	<input type="checkbox"/> Quarry
<input type="checkbox"/> Chemical Processes	<input type="checkbox"/> Hot Mix Asphalt Plant	<input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities
<input type="checkbox"/> Concrete Batch Plant	<input type="checkbox"/> Incinerator	<input type="checkbox"/> Storage Tanks
<input type="checkbox"/> Grey Iron and Steel Foundry	<input checked="" type="checkbox"/> Indirect Heat Exchanger	
<input type="checkbox"/> General Emission Unit, specify		

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below: NA

<input type="checkbox"/> Absorption Systems	<input type="checkbox"/> Baghouse	<input type="checkbox"/> Flare
<input type="checkbox"/> Adsorption Systems	<input type="checkbox"/> Condenser	<input type="checkbox"/> Mechanical Collector
<input type="checkbox"/> Afterburner	<input type="checkbox"/> Electrostatic Precipitator	<input type="checkbox"/> Wet Collecting System
<input type="checkbox"/> Other Collectors, specify		

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.

➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and *Example Legal Advertisement* for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?
 YES NO

➤ If YES, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "*Precautionary Notice – Claims of Confidentiality*" guidance found in the *General Instructions* as **Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below: NA

<input type="checkbox"/> Authority of Corporation or Other Business Entity	<input type="checkbox"/> Authority of Partnership
<input type="checkbox"/> Authority of Governmental Agency	<input type="checkbox"/> Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE  DATE: 5/11/16
(Please use blue ink) (Please use blue ink)

35B. Printed name of signee: Dave Townsend 35C. Title: Vice President

35D. E-mail: dave.townsend@pilgrims.com 36E. Phone: (970) 347-5730 36F. FAX: Use Email

36A. Printed name of contact person (if different from above): Brian Wolfe 36B. Title: Maintenance Manager

36C. E-mail: brian.wolfe@pilgrims.com 36D. Phone: (304) 538-1432 36E. FAX: Use Email

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input checked="" type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input checked="" type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input checked="" type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input checked="" type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan | <input checked="" type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input checked="" type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

ATTACHMENT A
BUSINESS CERTIFICATE

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**PILGRIM'S PRIDE CORPORATION
1770 PROMONTORY CIR
GREELEY, CO 80634-9039**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2306-9994

This certificate is issued on: **02/10/2015**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

ATTACHMENT B

AREA MAP



DATE: May 2016

PROJECT NO. 0101-16-0146

MAPPING FOR VISUAL REPRESENTATION ONLY

**SITE LOCATION MAP 1
MOOREFIELD PREPARED FOODS PLANT
MOOREFIELD, HARDY COUNTY, WV**

NOT TO SCALE

ATTACHMENT C

INSTALLATION AND START UP SCHEDULE

ATTACHMENT C

INSTALLATION AND STARTUP SCHEDULE

Installation and startup of the boiler is anticipated for July 5, 2016 and following issuance of the permit.

ATTACHMENT D
REGULATORY DISCUSSION

ATTACHMENT D
REGULATORY DISCUSSION

The facility is required to comply with the requirements contained in the applicable provisions of the following regulations:

- A. 45CSR2 – “To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers”

Sets state imposed opacity and particulate matter mass emission standards for boilers. The facility must maintain compliance with the most stringent limit between the state rule, federal rule and source specific permit conditions.

- B. 45CSR7 – “To Prevent and Control Particulate Matter Air Pollution from Manufacturing Processes and Associated Operations”

Sets state imposed opacity and particulate matter mass emission standards for boilers. The facility must maintain compliance with the most stringent limit between the state rule, federal rule and source specific permit conditions.

- C. 45CSR10 – “To Prevent and Control Air Pollution from the Emission of Sulfur Oxides”

Sets state imposed sulfur dioxide mass emission standard for boilers. The facility must maintain compliance with the most stringent limit between the state rule, federal rule and source specific permit conditions.

- D. 45CSR13 – “Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits, and Procedures for Evaluation”

Establishes criteria for permitting a modification to a stationary source of air pollution.

- E. 45CSR16 – “Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60”

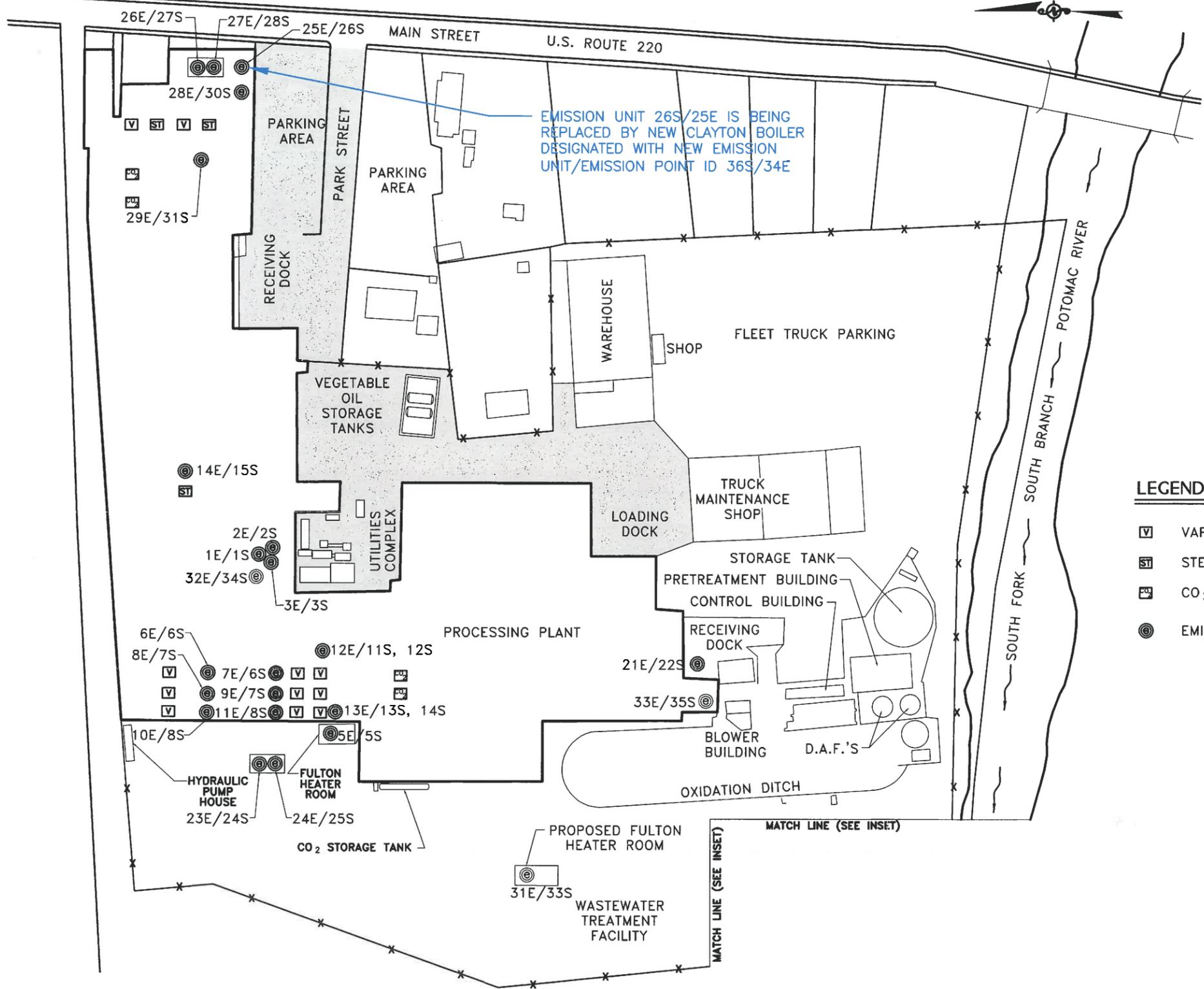
West Virginia adopts and implements the federal requirements of the New Source Performance Standards (NSPS) program. This facility is subject to 40CFR60 Subpart Dc, “Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units”

ATTACHMENT E

PLOT PLAN

XREF Files: Potesta Logo-C copy.jpg
 File: S:\CSD-Proj-YR\2016\16-0146-PILGRIMS PRIDE\B16-0146-01.dwg
 Plot Date/Time: May 12, 2016 - 9:41am
 Plotted By: mbsankoff

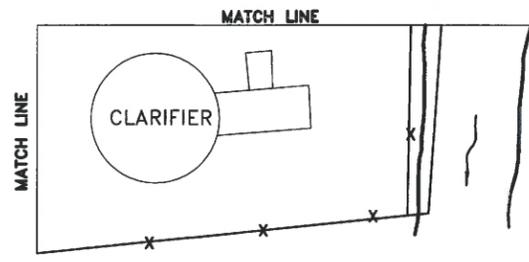
PROJECT: 16-0146 FILENAME: B16-0146-01



Emission Unit ID	Emission Point ID	Description
1E	1S	Clayton Steam Generator
2E	2S	Clayton Steam Generator
3E	3S	Clayton Steam Generator
5E	5S	Fulton Thermal Fluid Boiler
6E	6S	Oven w/ 4 Maxon Burners
7E	6S	
8E	7S	Oven w/ 4 Maxon Burners
9E	7S	
10E	8S	Oven w/ 4 Maxon Burners
11E	8S	
12E	11S, 12S	Stein Breeding Machine
13E	13S, 14S	Stein Breeding Machine
14E	15S	Drum Breeding Machine
21E	22S	Hurst Waste Boiler
23E	24S	Fulton Thermal Fluid Boiler
24E	25S	Fulton Thermal Fluid Boiler
25E	26S	Clayton Unit
26E	27S	Fulton Unit
27E	28S	Fulton Unit
28E	30S	Nothum Breeder
29E	31S	Fryer
31E	33S	Fulton Heater
32E	34S	Clayton Boiler
33E	35S	Clayton Boiler
34E	36S	Clayton Boiler

LEGEND

- V VAPOR VENTS FROM STEIN OVENS
- ST STEAM VENTS FROM COOK LINES 1,2,&3
- M CO₂ VENT FROM MIXERS
- EMISSION POINTS



THIS MAP WAS GENERATED FROM A MAP PROVIDED TO POTESTA AND ASSOCIATES, INC. BY HESTER INDUSTRIES, INC. ORIGINAL MAP WAS PRODUCED BY TERRADON CORP. JANUARY, 1995



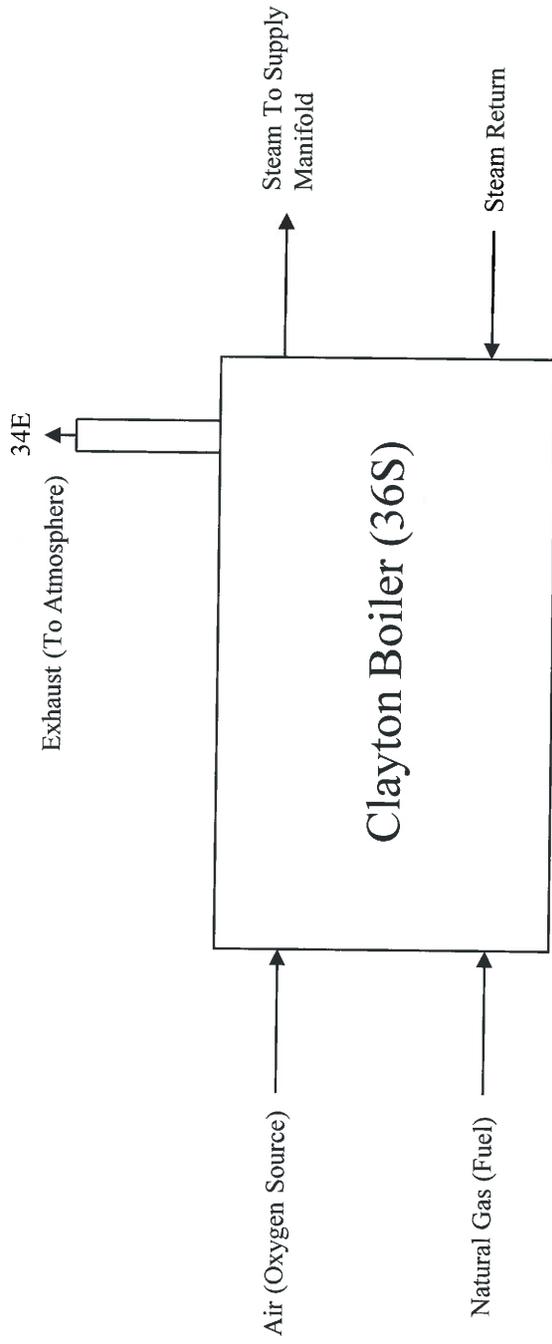
Potesta & Associates, Inc.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS

7012 MacCorkle Ave. SE, Charleston, WV 25304
 TEL: (304) 342-1400 FAX: (304) 343-9031
 E-Mail Address: potesta@potesta.com

Project		SITE PLAN	
		PILGRIM'S MOOREFIELD PREPARED FOODS PLANT	
		MOOREFIELD, WEST VIRGINIA	
Scale	NOT TO SCALE	Dwg. No.	E
Date	MAY 2016		

ATTACHMENT F

DETAILED PROCESS FLOW DIAGRAM



7012 MacCorkle Avenue, SE
 Charleston, West Virginia 25304
 Phone: (304) 342-1400
 Fax: (304) 343-9031

Pilgrim's Moorefield Prepared Foods Plant
Process Flow Diagram
Hardy County, West Virginia
Project No. 0101-16-0146

ATTACHMENT G
PROCESS DESCRIPTION

ATTACHMENT G

PROCESS DESCRIPTION

Pilgrim's proposes to replace the existing permitted 12.4 MMBtu/hr Clayton Industries natural gas fired boiler, source ID number 26S, at their Moorefield Prepared Foods Plant located in Moorefield, West Virginia. The permitted boiler failed and we are currently operating a temporary back-up boiler. The permitted boiler will be replaced by a 14.28811 MMBtu/hr Clayton Industries natural gas fired boiler, source ID number 36S. The replacement boiler will supply steam to the existing steam manifolds for distribution throughout the facility. Steam is used to supply energy for cooking, space heating and a source of hot water.

ATTACHMENT I
EMISSION UNITS TABLE

ATTACHMENT J

EMISSION POINTS DATA SUMMARY SHEET

ATTACHMENT L
EMISSIONS UNIT DATA SHEET

Attachment L
Emission Unit Data Sheet
(INDIRECT HEAT EXCHANGER)

Control Device ID No. (must match List Form): 36S

Equipment Information

1. Manufacturer: Clayton Industries	2. Model No. E-354 Serial No. NA
3. Number of units: 1	4. Use Produce process steam.
5. Rated Boiler Horsepower: 350 hp	6. Boiler Serial No.: NA
7. Date constructed: NA	8. Date of last modification and explain: NA
9. Maximum design heat input per unit: 14.28811 ×10 ⁶ BTU/hr	10. Peak heat input per unit: 14.28811 ×10 ⁶ BTU/hr
11. Steam produced at maximum design output: 12,075 LB/hr 500 psig	12. Projected Operating Schedule: Hours/Day 24 Days/Week 7 Weeks/Year 365
13. Type of firing equipment to be used: <input type="checkbox"/> Pulverized coal <input type="checkbox"/> Spreader stoker <input type="checkbox"/> Oil burners <input checked="" type="checkbox"/> Natural Gas Burner <input type="checkbox"/> Others, specify	14. Proposed type of burners and orientation: <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Front Wall <input type="checkbox"/> Opposed <input type="checkbox"/> Tangential <input type="checkbox"/> Others, specify
15. Type of draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced	16. Percent of ash retained in furnace: negligible %
17. Will flyash be reinjected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	18. Percent of carbon in flyash: NA %

Stack or Vent Data

19. Inside diameter or dimensions: 2 ft.	20. Gas exit temperature: ~400 °F
21. Height: NA ft.	22. Stack serves: <input checked="" type="checkbox"/> This equipment only <input type="checkbox"/> Other equipment also (submit type and rating of all other equipment exhausted through this stack or vent)
23. Gas flow rate: 4,546 ft ³ /min	
24. Estimated percent of moisture: NA %	

Emissions Stream

37. What quantities of pollutants will be emitted from the boiler before controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO	0.521	NA	400	NA
Hydrocarbons	NA	NA	NA	NA
NO _x	1.446	NA	400	NA
Pb	NA	NA	NA	NA
PM ₁₀	0.109	NA	400	NA
SO ₂	0.009	NA	400	NA
VOCs	0.077	NA	400	NA
Other (specify) HAPs	0.026	NA	400	NA

38. What quantities of pollutants will be emitted from the boiler after controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO	0.521	NA	400	NA
Hydrocarbons	NA	NA	NA	NA
NO _x	1.446	NA	400	NA
Pb	NA	NA	NA	NA
PM ₁₀	0.109	NA	400	NA
SO ₂	0.009	NA	400	NA
VOCs	0.077	NA	400	NA
Other (specify) HAPs	0.026	NA	400	NA

39. How will waste material from the process and control equipment be disposed of?

NA

40. Have you completed an *Air Pollution Control Device Sheet(s)* for the control(s) used on this Emission Unit. NA

41. Have you included the **air pollution rates** on the Emissions Points Data Summary Sheet? Yes

42. Proposed Monitoring, Recordkeeping, Reporting, and Testing

Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING PLAN: Please list (1) describe the process parameters and how they were chosen (2) the ranges and how they were established for monitoring to demonstrate compliance with the operation of this process equipment operation or air pollution control device.

The applicant will monitor the amount of natural gas combusted each month.

TESTING PLAN: Please describe any proposed emissions testing for this process equipment or air pollution control device.

Testing is not required by 40CFR60, Subpart Dc, nor is it proposed.

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

The applicant will maintain a certified record of the natural gas usage and record this data by either a written or electronic log. All records will be signed by a "Responsible Official" within fifteen (15) days after the end of the calendar month.

REPORTING: Please describe the proposed frequency of reporting of the recordkeeping.

In regard to monitoring required by §60.48c(g), §60.48c(i) states that these records are required to be maintained on site for a period of at least two (2) years, however previous 45CSR13 permits for the facility have extended this time frame to five (5) years.

Initial notification, as required by §60.48c(a), (a)(1) and (a)(3), must provide the date of construction, anticipated startup, actual startup, design heat input, identification of fuels to be fired and the annual capacity factor at which the boiler is anticipated to be operated. This notification is to be made in accordance with the timeframe specified in §60.7

43. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

Operate as designed.

ATTACHMENT N
SUPPORTING EMISSIONS CALCULATIONS

By: JJD
Date: 5/10/2016

Checked By: ADM
Date: 5/10/2016

Change in Emissions

Emission Type	Uncontrolled		Controlled	
	lb/hr	tpy	lb/hr	tpy
PM	-0.061	-0.267	-0.061	-0.267
PM10	-0.061	-0.267	-0.061	-0.267
PM2.5	-0.061	-0.267	-0.061	-0.267
SO2	0.002	0.006	0.002	0.006
NOx	-0.290	-1.271	-0.290	-1.271
CO	0.087	0.381	0.087	0.381
VOC	0.043	0.186	0.043	0.186
VOC HAPs	0.026	0.115	0.026	0.115
Metal HAPs	0.0001	0.0003	0.0001	0.0003
Total HAPs	0.026	0.116	0.026	0.116

By: JJD
 Date: 5/10/2016

Checked By: ADM
 Date: 5/10/2016

Natural Gas Combustion from Clayton Model E-354 Boiler - 350 HP (36S, 34E)

Maximum Design Heat Input = 14.28811 MMBtu/hr
 Hours of Operation = 8,760 hrs/year
 Hours of Operation = 24 hrs/day

Emission Type	Emissions lb/day ⁽²⁾	Uncontrolled		Controlled	
		lb/hr	tpy	lb/hr	tpy
PM	2.61	0.109	0.477	0.109	0.477
PM10 ⁽¹⁾	2.61	0.109	0.477	0.109	0.477
PM2.5 ⁽¹⁾	2.61	0.109	0.477	0.109	0.477
SO2	0.22	0.009	0.039	0.009	0.039
NOx	34.7	1.446	6.333	1.446	6.333
CO	12.5	0.521	2.282	0.521	2.282
VOC	1.85	0.077	0.337	0.077	0.337

Rounding = 3

1 - It is assumed that PM10 and PM2.5 are equal to TSP (PM).

2 - Lb/day emissions from Clayton Technical Specifications

By: JJD
Date: 5/10/2016

Checked By: ADM
Date: 5/10/2016

Burner Rating = 14.28811 MMBtu/hr
Operating Hours = 8,760 hrs/yr
Conversion from lb/10⁶ scf to lb/MMBtu (divide by)⁽¹⁾ = 1,020 Btu/cf

CAS No.	Hazardous Air Pollutants	EF ¹		Uncontrolled		Controlled	
		lb/10 ⁶ scf	lb/MMBtu	lb/hr	tpy	lb/hr	tpy
91-57-6	2-Methylnaphthalene	2.40E-05	2.35E-08	3.36E-07	1.47E-06	3.36E-07	1.47E-06
56-49-5	3-Methylchloranthrene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
57-97-6	7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-08	2.24E-07	9.82E-07	2.24E-07	9.82E-07
83-32-9	Acenaphthene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
203-96-8	Acenaphthylene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
120-12-7	Anthracene	2.40E-06	2.35E-09	3.36E-08	1.47E-07	3.36E-08	1.47E-07
56-55-3	Benz(a)anthracene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
71-43-2	Benzene	2.10E-03	2.06E-06	2.94E-05	1.29E-04	2.94E-05	1.29E-04
50-32-8	Benzo(a)pyrene	1.20E-06	1.18E-09	1.68E-08	7.36E-08	1.68E-08	7.36E-08
205-99-2	Benzo(b)fluoranthene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
191-24-2	Benzo(g,h,i)perylene	1.20E-06	1.18E-09	1.68E-08	7.36E-08	1.68E-08	7.36E-08
205-82-3	Benzo(k)fluoranthene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
218-01-9	Chrysene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
53-70-3	Dibenzo(a,h)anthracene	1.20E-06	1.18E-09	1.68E-08	7.36E-08	1.68E-08	7.36E-08
25321-22-6	Dichlorobenzene	1.20E-03	1.18E-06	1.68E-05	7.36E-05	1.68E-05	7.36E-05
206-44-0	Fluoranthene	3.00E-06	2.94E-09	4.20E-08	1.84E-07	4.20E-08	1.84E-07
86-73-7	Fluorene	2.80E-06	2.75E-09	3.92E-08	1.72E-07	3.92E-08	1.72E-07
50-00-0	Formaldehyde	7.20E-02	7.06E-05	1.01E-03	4.42E-03	1.01E-03	4.42E-03
110-54-3	Hexane	1.80E+00	1.76E-03	2.52E-02	1.10E-01	2.52E-02	1.10E-01
193-39-5	Indeno(1,2,3-cd)pyrene	1.80E-06	1.76E-09	2.52E-08	1.10E-07	2.52E-08	1.10E-07
91-20-3	Naphthalene	6.10E-04	5.98E-07	8.54E-06	3.74E-05	8.54E-06	3.74E-05
85-01-8	Phenanathrene	1.70E-05	1.67E-08	2.38E-07	1.04E-06	2.38E-07	1.04E-06
129-00-0	Pyrene	5.00E-06	4.90E-09	7.00E-08	3.07E-07	7.00E-08	3.07E-07
108-88-3	Toluene	3.40E-03	3.33E-06	4.76E-05	2.09E-04	4.76E-05	2.09E-04
7440-38-2	Arsenic	2.00E-04	1.96E-07	2.80E-06	1.23E-05	2.80E-06	1.23E-05
7440-41-7	Beryllium	1.20E-05	1.18E-08	1.68E-07	7.36E-07	1.68E-07	7.36E-07
7440-43-9	Cadmium	1.10E-03	1.08E-06	1.54E-05	6.75E-05	1.54E-05	6.75E-05
7440-47-3	Chromium	1.40E-03	1.37E-06	1.96E-05	8.59E-05	1.96E-05	8.59E-05
7440-48-4	Cobalt	8.40E-05	8.24E-08	1.18E-06	5.15E-06	1.18E-06	5.15E-06
7439-96-5	Manganese	3.80E-04	3.73E-07	5.32E-06	2.33E-05	5.32E-06	2.33E-05
7439-97-6	Mercury	2.60E-04	2.55E-07	3.64E-06	1.60E-05	3.64E-06	1.60E-05
7440-02-0	Nickel	2.10E-03	2.06E-06	2.94E-05	1.29E-04	2.94E-05	1.29E-04
7782-49-2	Selenium	2.40E-05	2.35E-08	3.36E-07	1.47E-06	3.36E-07	1.47E-06
VOC HAPs Subtotal				0.026	0.115	0.026	0.115
Metal HAPs Subtotal				0.0001	0.0003	0.0001	0.0003
Total HAPs				0.026	0.116	0.026	0.116

References:

⁽¹⁾ AP42 Table 1.4-3 and Table 1.4-4

By: JJD
 Date: 5/10/2016

Checked By: ADM
 Date: 5/10/2016

Clayton Model E-304 Boiler (26S, 25E)

Maximum Design Heat Input = 12.4 MMBtu/hr
 Hourly Gas Consumption Rate = 12,400 scf/hr
 Yearly Gas Consumption Rate = 108,624,000 scf/yr

Emission Type	Emissions lb/MMSCF ⁽²⁾	Uncontrolled		Controlled	
		lb/hr	tpy	lb/hr	tpy
PM	13.7	0.170	0.744	0.170	0.744
PM10 ⁽¹⁾	13.7	0.170	0.744	0.170	0.744
PM2.5 ⁽¹⁾	13.7	0.170	0.744	0.170	0.744
SO2	0.6	0.007	0.033	0.007	0.033
NOx	140	1.736	7.604	1.736	7.604
CO	35	0.434	1.901	0.434	1.901
VOC	2.78	0.034	0.151	0.034	0.151

Rounding = 3

- 1 - It is assumed that PM and PM2.5 are equal to PM10.
- 2 - Emissions and emission factors from R13-1863B permit application.

ATTACHMENT O

**MONITORING/RECORDKEEPING/REPORTING/TESTING
PLANS**

ATTACHMENT O

MONITORING/RECORDKEEPING/REPORTING/TESTING PLANS

Pilgrim's requests monitoring, recordkeeping, reporting and testing as stated in the Emissions Unit Data Sheets contained in Attachment L.

ATTACHMENT P

PUBLIC NOTICE

LEGAL ADVERTISEMENT

AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that Pilgrim's Pride Corporation has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Class II Administrative Update of Permit R13-1863D at the Moorefield Prepared Foods Plant located on South Main Street in Moorefield, Hardy County, West Virginia. The latitude and longitude coordinates are: 39.058407 and -78.971905.

The applicant estimates the potential increase to discharge the following Regulated Air Pollutants will be: VOC of 0.186 tons per year (tpy); SO₂ of 0.006 tpy; CO of 0.381 tpy; and total HAPs of 0.116 tpy. There is no increase in the yearly potential to emit for PM, PM₁₀, PM_{2.5}, or NO_x.

Startup of operation is planned to begin on or about the 5th day of July. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, Extension 1250, during normal business hours.

Dated this the **(PLEASE INSERT DATE)** day of May, 2016.

By: Pilgrim's Pride Corporation of West Virginia, Inc.
Dave Townsend
Vice President
214 South Main Street
Moorefield, West Virginia 26836

APPENDIX

CLAYTON BOILER TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

CLAYTON STEAM GENERATORS:



- **SAVE FUEL**
The unique counter flow design provides higher fuel-to-steam efficiency than traditional boilers.
- **ARE SAFE FOR PERSONNEL & EQUIPMENT**
Inherently, the Clayton design eliminates hazardous steam explosions.
- **PROVIDE RAPID RESPONSE**
The Clayton design responds rapidly to sudden or fluctuating load demands.
- **PROVIDE FAST START**
The Clayton design will provide full output from cold start within ten minutes, without thermal stress.
- **ARE COMPACT AND LIGHTWEIGHT**
The Clayton design typically occupies one-third of the floor space and is 75% lighter than a traditional boiler.
- **ENSURE HIGH QUALITY STEAM**
Clayton provides either a 99.5% or a 98% quality steam separator to minimize moisture and carryover.
- **AFFORD FUEL VERSATILITY**
Natural gas, propane, light oil, and heavy oil burners available or in combination.
- **HAVE ADVANCED CONTROLS**
Most units are equipped with Programmable Logic Controllers (PLC) for accurate and reliable operation.
- **ARE AVAILABLE WITH LOW NOx**
Industry leading Low NOx burners are available for added environmental protection.
- **ARE BACKED BY** fast, expert factory direct service that is available 24 hours per day throughout the U.S., Canada, Mexico and Europe and service distributors worldwide.



**E-354/SE-354
STEAM GENERATOR**

CLAYTON STEAM GENERATOR

PECIFICATIONS

	MODEL E-350				MODEL SE-350			
	ENGLISH UNITS		METRIC UNITS		ENGLISH UNITS		METRIC UNITS	
BOILER HORSEPOWER	350 BHP		2,580,488 KCAL/HR		350 BHP		2,580,488 KCAL/HR	
HEAT INPUT	Oil	13,947,917 BTU/HR	4,084 KW	13,486,954 BTU/HR	3,943 KW	Oil	13,947,917 BTU/HR	4,084 KW
	Gas	14,268,110 BTU/HR	4,164 KW	13,783,824 BTU/HR	4,036 KW	Gas	14,268,110 BTU/HR	4,164 KW
NET HEAT OUTPUT	11,716,250 BTU/HR		3,431 KW	11,716,250 BTU/HR		3,431 KW	11,716,250 BTU/HR	
EQUIVALENT OUTPUT (from and at 212° F freshwater and 0 PSIG steam)	12,075 LB/HR		5,477 KG/HR	12,075 LB/HR		5,477 KG/HR	12,075 LB/HR	
DESIGN PRESSURE (see note 1)	15 - 500 PSI		1 - 35 KG/CM ²	15 - 500 PSI		1 - 35 KG/CM ²	15 - 500 PSI	
STEAM OPERATING PRESSURE (determined by design pressure)	13 - 450 PSI		0.9 - 32 KG/CM ²	13 - 450 PSI		0.9 - 32 KG/CM ²	13 - 450 PSI	
OIL CONSUMPTION (see note 2)	99.2 GPH		376 LIT/HR	99.6 GPH		369 LIT/HR	99.2 GPH	
GAS CONSUMPTION (at maximum steam output based on #2 fuel oil, 30 to 40 api gravity)	13,286 FT ³ /HR		405 M ³ /HR	13,784 FT ³ /HR		390 M ³ /HR	13,286 FT ³ /HR	
HEAT INPUT	13,947,917 BTU/HR		4,084 KW	13,486,954 BTU/HR		3,943 KW	13,947,917 BTU/HR	
HEAT OUTPUT	11,716,250 BTU/HR		3,431 KW	11,716,250 BTU/HR		3,431 KW	11,716,250 BTU/HR	
EFFICIENCY	75%	80%	85%	90%	75%	80%	85%	90%
oil-fired efficiency %	86	86	85	84	86	86	85	82
gas-fired efficiency %	84	84	83	82	86	86	85	85
ELECTRIC MOTOR	Blower	Pump	Blower	Pump	Blower	Pump	Blower	Pump
design pressure: 65-300 psi	25 HP	15 HP	18.7 KW	11.2 KW	25 HP	15 HP	18.7 KW	11.2 KW
301-500 psi	25 HP	20 HP	18.7 KW	14.9 KW	25 HP	20 HP	18.7 KW	14.9 KW
ELECTRIC (480 v, 60 Hz, 3ph) FLA (see note 4)	84		75		86		75	
design pressure: 65-200 psi	84		75		86		75	
301-500 psi	84		75		86		75	
ATOMIZING AIR REQUIREMENT	20 CFM		0.6 M ³ /MIN		20 CFM		0.6 M ³ /MIN	
capacity	70 PSI		4.8 KG/CM ²		70 PSI		4.8 KG/CM ²	
minimum pressure	1,855 GPH		7,024 LIT/HR		1,855 GPH		7,024 LIT/HR	
WATER SUPPLY REQUIRED	594 Ft ²		56 M ²		594 Ft ²		56 M ²	
HEATING SURFACE	114 IN		2.9 M		114 IN		2.9 M	
APPROXIMATE OVERALL DIMENSIONS	86 IN		2.2 M		86 IN		2.2 M	
length (gas/oil)	114 IN		2.9 M		114 IN		2.9 M	
width (gas/oil)	86 IN		2.2 M		86 IN		2.2 M	
height - including legs	114 IN		2.9 M		114 IN		2.9 M	
WEIGHT	10,369 LB		4,656 KG		10,369 LB		4,656 KG	
installed - wet	8,455 LB		4,014 KG		8,455 LB		4,014 KG	
shipping	700 Ft ³		19.8 M ³		700 Ft ³		19.8 M ³	
SHIPPING CUBE (including pump)	700 Ft ³		19.8 M ³		700 Ft ³		19.8 M ³	

AUTOMATIC CONTROLS provide continuous modulation from 20 to 100% of steam load.

- 1) Design pressure available up to 3000 PSI. Consult factory for details.
- 2) Based on an oil with a High Heat Value (HHV) of 140,600 BTU/Gal. Consult factory for heavy oil applications.
- 3) Efficiencies shown are nominal. Small variations may occur due to manufacturing tolerance. Please consult factory for guaranteed values.
- 4) Includes 10% for Variable Speed Drive. Other voltages available.

Clayton
INDUSTRIES

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TYPICAL "XX4 MODEL (w/standard burner) GENERATOR EMISSIONS : NATURAL GAS

January 27, 2015

MODEL	E-154	SE-154	E-204	SE-204	E-254	SE-254	E-304	SE-304	SE-354
BOILER HORSE POWER	150	150	200	200	250	250	300	300	350
ASSUMED EFFICIENCY, %	82	85	82	85	82	85	82	85	85
RATED INPUT (MMBTU/HR)	6.123	5.907	8.165	7.876	10.206	9.846	12.247	11.815	14.288
FLUE GAS RATE (SCFM)	1,201	1,158	1,601	1,544	2,001	1,930	2,401	2,316	2,801
FLUE GAS RATE (ACFM)400 F	1,948	1,879	2,597	2,506	3,247	3,132	3,896	3,759	4,546
FLUE GAS RATE (LBS/HR)	5,296	5,109	7,061	6,811	8,826	8,514	10,591	10,217	12,356
EXH STACK DIA (IN)	18	18	18	18	24	24	24	24	24
FLUE VELOCITY (FT/S) 400 F	18.4	17.7	24.5	23.6	17.2	16.6	20.7	19.9	24.1
NOX PPMV	50	50	60	60	75	75	80	80	85
CO LBS/DAY	8.7	8.4	14.0	13.5	21.9	21.1	28.0	27.0	34.7
SO2 (est) PPMV	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
SO2 (est) LBS/DAY	0.10	0.09	0.13	0.12	0.16	0.15	0.19	0.18	0.22
PARTICULATES (est) LBS/DAY	1.12	1.08	1.49	1.44	1.86	1.80	2.23	2.16	2.61
VOC (est) LBS/DAY	0.79	0.76	1.06	1.02	1.32	1.27	1.58	1.53	1.85
TOC (est) LBS/DAY	1.58	1.53	2.11	2.04	2.64	2.55	3.17	3.06	3.70

2

4 & 7

4

4

notes

- NOTES 1) EMISSION DATA GIVEN FOR MAXIMUM CONTINUOUS FIRING RATE (15% EXCESS AIR). PPMV VALUES CORRECTED TO 3% O2.
- 2) VALUES FOR SULFUR DIOXIDE ASSUME 2.5% CONVERSION FROM SULFUR CONTENT IN FUEL (8 PPMV ASSUMED)
- 3) DATA BASED ON 1000 BTU/CU FT NATURAL GAS
- 4) ESTIMATED VALUES BASED ON TYPICAL INDUSTRY DATA
- 5) INDICATED VALUES ARE TYPICAL ONLY. ACTUAL VALUES WILL VARY WITH ACTUAL OPERATING CONDITIONS.
- 6) CONSUMPTION FACTORY FOR GUARANTEED VALUES.
- 7) ALL PARTICULATES TYPICALLY LESS THAN 1 MICRON DIAMETER. TWENTY-FIVE PERCENT BY WEIGHT FILTERABLE BALANCE IS CONDENSABLE.

EMISSIONS vs. BG

TABLE 4