Edit: Application Tracking

Air Case ID: 13231 Permit Id: 4232

FIN No.: A2326

Company Name: REDWOOD MATERIALS, INC.

HA Basin No: 083 **Increment Tracked** ☑

Permit No: AP34994396 * Select a Permit No

Date App. Received: 10/01/2026 *

Permit Writer: Not Assigned (NA) *

Case Type: Class 2 Revision w/o Public Notice *

Default ODS Date: 10/15/2026 *

Actual ODS Date:

Date App. to be Closed: 12/14/2026 *

Stop Days: **Actual Date App. to be Closed:** 12/14/2026

App. Incomplete? ☐

Date App. Closed:

Fee Paid ($): 15000 *

Case Description:

Comments:

Flag (For Class 4) : None

Update Cancel

REDWOOD MATERIALS

Redwood Materials, Inc.

Battery Materials Campus 1

1201 Battery Boulevard

McCarran, Nevada 89434

Class II Air Quality Operating Permit Revision Application (REV 11)

September 2026

UES
6995 Sierra Center Parkway
Reno, NV 89511
p. 775.829.2245 | TeamUES.com

RECEIVED
SEP 18 2026
BAPC/BAQP

September 17, 2026

Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, NV 89701

Attention: **Jaimie Mara**
Minor Source Permitting Supervisor, Air Pollution Control

Reference: **Class II Air Quality Operating Permit Revision Application, Redwood Materials – Battery Materials Campus 1, 1201 Battery Boulevard, McCarran, Nevada, 89434, AP3499-4396, FIN A2326**

Dear Ms. Mara,

On behalf of Redwood Materials, Inc. (Redwood), UES has prepared this Class II Air Quality Operating Permit revision application for Redwood's above-referenced location.

The information and data provided in this permit application represent the best information available at the time the application was prepared. New or supplementary information/data pertinent to this air permit application will be submitted to the Nevada Division of Environmental Protection (NDEP) when and if it becomes available.

Pursuant to NDEP's letter approving Redwood's request for confidentiality for this air permit application, two separate permit applications are being submitted. The first permit application, which is designated as confidential, is being provided to facilitate the NDEP's internal application review and is not to be made publicly available. The second application, which does not have a confidential designation, can be made available to the public as appropriate. UES and Redwood request that no digital copies or additional hard copies of the confidential version of the permit application be created as a measure to control the dissemination of the permit application. Included with this submittal is a flash drive with a digital copy of the non-confidential version of the permit application.

Confirmation of e-payment for $15,000 for the application filing fee is included as Attachment 1.

The facility-wide PTE is provided in Table 1:

Table 1: Facility-Wide PTE

Pollutant	September Revision PTE (tons/yr)
PM	41.94
PM-10	36.11
PM-2.5	33.26
SO_2	20.90
NO_x	78.83
CO	42.12
VOC	59.10
H_2S	1.75
H_2SO_4	2.61
Total HAP	21.14
CO_2-e	19,173.98

[Remainder of Page Intentionally Left Blank]

LIMITATIONS

The information presented herein is based in part on the information provided to UES. UES makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It should be recognized that definition and evaluation of environmental emission conditions is an inexact science. Judgements and opinions leading to the conclusions and calculations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including performance testing, can tend to reduce the inherent uncertainties associated with such conclusions and calculations. Additional information not found or available to UES at the time of preparing this permit application may result in a modification to the conclusions and calculations contained herein.

The services performed by UES have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made. The use of the word "certify" in this document constitutes an expression of professional opinion regarding those facts or findings which are the subject of certification and does not constitute a warranty or guarantee, either expressed or implied.

CLOSING

Should you have any questions regarding the information provided herein please contact Javier Grow of UES at (704) 891-4522.

Respectfully,
UES

Javier Grow
Air & Waste Program Manager

PUBLIC

Class II Air Quality Operating Permit Application Form

Facility Name: Redwood Materials, Inc.

Existing Facility ID: A2326

Existing Class II AQOP: AP3499-4396

Type of Facility: Lithium-Ion Battery Recycling

Number of Units (including IA's) in Facility: 691

If a Revision, Number of Units (including IA's) Affected in Action: 444

Application Type:

☐ **New AQOP**

☒ **Revision of Existing AQOP**

☐ **Renewal of Existing AQOP**

Please Submit Application to:
Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249
Phone (775) 687-9349

February2021
(Ver. 5)

IMPORTANT INFORMATION

- The Application packet contains:
  - General Company Information Form
  - Industrial Process Form
  - Combustion Equipment Form
  - Storage Silo Form
  - Liquid Storage Tanks Form
  - Insignificant Activities Form
  - Facility-Wide Potential to Emit Table
  - Surface Area Disturbance Form
  - Plant Boundary Coordinates Form
  - Plant Building Parameters Form
  - Application Certification Document with Required Attachments

- Please see the Guidance Document for additional instructions on how to complete the application.
- A printed copy of the application must be submitted (mailed or hand delivered), along with an electronic version.
- The application filing fee required by Nevada Administrative Code (NAC) 445B.327 must be submitted with the completed application. Checks must be made payable to the "Nevada State Treasurer, Environmental Protection" with "BAPC" noted in the memo line. Fees may also be submitted electronically at https://epayments.ndep.nv.gov/.
- This application shall be used for new Class II sources, revisions to existing Class II Air Quality Operating Permits, and the renewal of Class II Air Quality Operating Permits. This application packet is not for use for an Administrative Renewal, Administrative Amendment, a general permit, a stand-alone Surface Area Disturbance (SAD) permit, nor for a Request for Change of Location Approval permit for a temporary source.
- An application for a Class II Air Quality Operating Permit must be signed by the Responsible Official, as defined in NAC 445B.156. The certification/signature page is the last page of the application and the original "wet" signature must be provided.
- All items in the application must be addressed. If an item does not apply "N/A" or similar notation must be entered in the appropriate blank. All other information must be provided. Incomplete applications will be returned to the Responsible Official within 10 working days of receipt of the application.
- For the renewal of a Class II Operating Permit, a complete application and corresponding processing fee must be submitted in accordance with NAC 445B.3473, prior to the expiration date of the current permit. The BAPC suggests that the application be submitted well in advance of the timeline outlined in NAC 445B.3473 to ensure the application is deemed complete.
- If the facility applies for a permit that has not previously held a Class I of Class II operating permit, is located within 1,000 feet of a school, hospital, or residential area, or the Director determines that the change to the stationary source results in an increase in allowable emissions that exceeds the thresholds in NAC 445B.3457, the BAPC shall establish a 30-day period for public participation.

Table of Contents

	Tab	Section
	A	General Company Information
	B	Industrial Application Forms
	C	Combustion Application Forms
	D	Facility-Wide Potential to Emit Table
	E	Detailed Emissions Calculations
	F	Surface Area Disturbance and Plant Building Coordinate Forms
	G	Narrative Description
	H	Application Certification Document

PUBLIC

GENERAL COMPANY INFORMATION FORM

1. **Briefly describe the permitted facility's process and include the Standard Industrial Classification (SIC) number and North American Industry Classification System (NAICS). Add details in the attached Process Narrative.**

The facility will fall under NAICS 335910-02 which is classified as "Batteries-Dry Cell (Manufacturing)"

2. **Company Name and Address that are to appear on the operating permit [NAC 445B.295(1)]:**

Name: Redwood Materials, Inc.
Address: 1201 Battery Boulevard
City: McCarran
State: Nevada Zip Code: 89434

3. **Owner's Name and Address [NAC 445B.295(1)]:**

Name: Redwood Materials, Inc.
Address: 1201 Battery Boulevard
City: McCarran
State: Nevada Zip Code: 89434

4. **Facility Name and Address, if different from #2 [NAC 445B.295(1)]:**

Name: Redwood Materials, Inc.
Address: 1201 Battery Boulevard
City: McCarran
State: Nevada Zip Code: 89434

5. **If records are required under the operating permit will be kept at a location other than the facility, specify that location [NAC 445B.295(7)]:**

Name: N/A
Address:
City:
State: Zip Code:

GENERAL COMPANY INFORMATION FORM (continued)

6. Responsible Official Name, Title and Mailing Address [NAC 445B.295(1)]:

Name:	Alex Heard
Title:	Senior Vice President EHS, Security & Sustainability
Address:	1201 Battery Boulevard
City:	McCarran
State:	Nevada Zip Code: 89434
Phone Number:	(419) 280-2453
Fax Number:	N/A
E-mail Address:	alex.heard@redwoodmaterials.com

Is this a new Responsible Official? ☐ Yes ☒ No

If yes, and the Responsible Official (RO) does not meet the definition under NAC 445B.156 then please fill out the "Responsible Official Identification/Designation/Change Request Form" and mail it in. (https://ndep.nv.gov/air/permitting/download-permit-forms)

7. Plant Manager or other appropriate Contact Name, Title and Address [NAC 445B.295(1)]:

Name:	Lee Kraemer
Title:	Director of EHS
Address:	1201 Battery Boulevard
City:	McCarran
State:	Nevada Zip Code: 89706
Phone Number:	(419) 819-0767
Fax Number:	N/A
E-mail Address:	lee.kraemer@redwoodmaterials.com

8. Location and Driving Directions to the Facility (For Example: From Elko, Nevada, 4 miles south of I-80 at xx Interchange) [NAC 445B.295(8)]:

Hydrographic Basin (HA) Number: 83
HA Basin Name: Tracy Segment

Township(s): 19 N; Range(s): 23 E; Section(s): 19, 20, 30

UTM Coordinates for the Front Gate of the Facility (NAD 83, Zone 11):
4,374,498 m North; 289,865 m East;

Nearest City: Sparks
County: Storey County

Driving Directions from nearest city to the Facility: Take I-80 E towards Fallon and drive approximately 15.4 miles. Take Exit 32 for USA Parkway/NV-439. Keep right at the fork and merge onto NV-439/USA Pkwy. Drive for approximately 7.1 miles, then turn right onto Innovation Way. Continue for approximately 1 mile. Turn right onto Battery Blvd. The facility will be on the right.

GENERAL COMPANY INFORMATION FORM (continued)

9. **Emission Cap Requested [NAC 445B.070 and NAC 445B.296(2)]:**

☐ Yes ☒ No (If yes, provide details in the attached Process Narrative)

10. **Important note** for completing the Industrial Process, Combustion Equipment, Storage Silo, and Liquid Storage Tank Application forms: forms need to be included for permitted emission units and insignificant activities. Provide additional forms as needed. All items in the application must be addressed. If an item does not apply then "N/A" or similar notation must be entered in the appropriate blank (TBD, unknown, etc.).

11. **Is the Facility located within 1,000 feet of a school, hospital, or residential area?**
☐ Yes ☒ No

12. **Does the Facility require controls or other limit restrictions to remain a Class II source?**
☒ Yes ☐ No

13. **Has the facility provided modeling for each non-combustion baghouse individually? (See Testing Determination System for Baghouses Guidance Document)**
☒ Yes ☐ No

B

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 15 - Additive Mixing Tank**

Emission Unit Description: **Additive 1 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.036
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 16 - Additive Mixing Tank**

Emission Unit Description: **Additive 2 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.037
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 17 - Additive Mixing Tank**

Emission Unit Description: **Additive 3 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.038
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 18 - Additive Mixing Tank**

Emission Unit Description: **Additive 4 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.039
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 19 - Additive Mixing Tank**

Emission Unit Description: **Additive 5 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.040
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD - Additive Mixing Tank**

Emission Unit Description: **Additive 6 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD - Additive Mixing Tank**

Emission Unit Description: **Additive 7 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD - Additive Mixing Tank**

Emission Unit Description: **Additive 8 to Mixing Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,556; 4,374,555; 4,374,548
	UTM Easting (NAD 83, Zone 11)	m	289,800; 289,799; 289,787
Operating Parameters	Material Type Processed		Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	See Environmental Evaluation
	Stack Inside Diameter	feet	See Environmental Evaluation
	Stack Temperature	°F	See Environmental Evaluation
	Stack Exit Velocity	feet/second	See Environmental Evaluation
	Actual Gas Volume Flow Rate	acfm	See Environmental Evaluation
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	See Environmental Evaluation
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 23 – Buffing Dust Collector**

Emission Unit Description: **Plating Machine 1 Buffing Process**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.044
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,559
	UTM Easting (NAD 83, Zone 11)	m	289,799
Operating Parameters	Material Type Processed		Buffing Particulate
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50-79
	Stack Inside Diameter	feet	0.83
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	132.93
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	4,350
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 26 - Feed Fume Scrubber #1**

Emission Unit Description: **Dissolution Tank 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.048
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,601
	UTM Easting (NAD 83, Zone 11)	m	289,795
Operating Parameters	Material Type Processed		WRP Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	55
	Stack Inside Diameter	feet	0.83
	Stack Temperature	°F	86
	Stack Exit Velocity	feet/second	36.3
	Actual Gas Volume Flow Rate	acfm	1,178.43
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Not Specified
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 26 - Feed Fume Scrubber #1**

Emission Unit Description: **Plating Machine 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.049
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,601
	UTM Easting (NAD 83, Zone 11)	m	289,795
Operating Parameters	Material Type Processed		WRP Additive Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	55
	Stack Inside Diameter	feet	0.83
	Stack Temperature	°F	86
	Stack Exit Velocity	feet/second	36.3
	Actual Gas Volume Flow Rate	acfm	1,178.43
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Not Specified
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 30 – Calcination – Reactor Unit**

Emission Unit Description: **Reactor Unit (IN: Conveyor 01 and Conveyor 02; OUT: Conveyor 03)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.056
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,551.7
	UTM Easting (NAD 83, Zone 11)	m	289,290.1
Operating Parameters	Material Type Processed		Converter Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	40
	Stack Inside Diameter	feet	5.67
	Stack Temperature	°F	113
	Stack Exit Velocity	feet/second	57.10
	Actual Gas Volume Flow Rate	acfm	86,402
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	63,287.5
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Material to Unloader 01**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.155
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Unloader 01 to Conveyor 04**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.156
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Cyclone to Hopper 01 or Conveyor 03 via Fully Enclosed Screw 01**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**TBD (NEW)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Hopper 01 to Hopper 02**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**TBD (NEW)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Feeder 01 (IN: Conveyor 03 or Conveyor 04; OUT: Size Reduction Unit 01)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.157
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Feeder 01 (IN: Conveyor 03 or Conveyor 04; OUT: Size Reduction Unit 01)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.058
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Feeder 02 (IN: Size Reduction Unit 01; OUT: Conveyor 05)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.158
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Size Reduction Unit 02 (IN: Conveyor 05; OUT: Hopper 03 or Size Reduction Unit 03 via Fully Enclosed Screw 02)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.059
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Size Reduction Unit 03 (IN: Size Reduction Unit 02 via Fully Enclosed Screw 02; OUT: Screener 01 via Fully Enclosed Screw 03 and Screw 04)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.061
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Screener 01 (IN: Size Reduction Unit 03 via Fully Enclosed Screw 03 and Screw 04; OUT: Separator 01 or Bagging Station 01 via Fully Enclosed Sampler 01 and Screw 05)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.060
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Separator 01 to Bagging Station 02 via Fully Enclosed Screw 06**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.063
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Separator 01 to Bagging Station 03 via Fully Enclosed Screw 07**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.064
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Separator 01 to Bagging Station 04 via Fully Enclosed Screw 08**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.065
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Separator 01 to Bagging Station 05 via Fully Enclosed Screw 09**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**TBD (NEW)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Screener 02 (IN: Separator 01 via Fully Enclosed Screw 09; OUT: Compaction Machine via Fully Enclosed Screw 10 or Bagging Station 07 via Fully Enclosed Screw 11)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.159
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Compaction Machine to Bagging Station 06**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.192
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 31 - Calcination - Material Handling**

Emission Unit Description: **Dust Collector Fines to Bagging Station 08 via Fully Enclosed Screw 12 or Bagging Station 01 via Fully Enclosed Screw 05**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**TBD (NEW)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	N/A
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,616.0
	UTM Easting (NAD 83, Zone 11)	m	289,318.8
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	feet	30
	Stack Inside Diameter	feet	3
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.65
	Actual Gas Volume Flow Rate	acfm	26,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	23,600
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Material to Tipper A**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.160
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Tipper A to Feeder A**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.161
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Feeder A to Conveyor 01**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.162
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Material to Tipper B**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.163
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Tipper B to Feeder B**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.164
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Feeder B to Conveyor 01**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.165
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Material to Tipper C**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Tipper C to Feeder C**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**TBD (NEW)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 46 – Calcination – Feed Preparation**

Emission Unit Description: **Feeder C to Conveyor 01**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,643.2
	UTM Easting (NAD 83, Zone 11)	m	289,367.2
Operating Parameters	Material Type Processed		Battery Production and Packaging Material Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	41.5
	Stack Inside Diameter	feet	2.67
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	53.71
	Actual Gas Volume Flow Rate	acfm	Not Specified
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	18,000
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 51 – Material Fabrication**

Emission Unit Description: **Material Fabrication**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.206
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,686.4
	UTM Easting (NAD 83, Zone 11)	m	289,651
Operating Parameters	Material Type Processed		Coating Material
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		Industrial Vacuum
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	Yes
Stack Parameters	Stack Height	feet	21
	Stack Inside Diameter	feet	2
	Stack Temperature	°F	91
	Stack Exit Velocity	feet/second	106.1
	Actual Gas Volume Flow Rate	acfm	20,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 52 – Demo Plant – Powder Dust Collector**

Emission Unit Description: **Unloading Station 1 to Mixer 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.207
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,774
	UTM Easting (NAD 83, Zone 11)	m	289,697
Operating Parameters	Material Type Processed		Battery Materials
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	39
	Stack Inside Diameter	feet	0.5
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.17
	Actual Gas Volume Flow Rate	acfm	650
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 52 – Demo Plant – Powder Dust Collector**

Emission Unit Description: **Mixer 1 to Feed Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.209
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,774
	UTM Easting (NAD 83, Zone 11)	m	289,697
Operating Parameters	Material Type Processed		Battery Materials
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	39
	Stack Inside Diameter	feet	0.5
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.17
	Actual Gas Volume Flow Rate	acfm	650
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 52 – Demo Plant – Powder Dust Collector**

Emission Unit Description: **Mill 1 and Associated Transfers (IN: Bin 1 and Bin 2; OUT: Screen Conveyor)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.211
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,774
	UTM Easting (NAD 83, Zone 11)	m	289,697
Operating Parameters	Material Type Processed		Battery Materials
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	39
	Stack Inside Diameter	feet	0.5
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.17
	Actual Gas Volume Flow Rate	acfm	650
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 52 – Demo Plant – Powder Dust Collector**

Emission Unit Description: **Screen 1 and Associated Transfers (IN: Screen Conveyor; OUT: Bagging Station 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.212
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,774
	UTM Easting (NAD 83, Zone 11)	m	289,697
Operating Parameters	Material Type Processed		Battery Materials
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	39
	Stack Inside Diameter	feet	0.5
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	55.17
	Actual Gas Volume Flow Rate	acfm	650
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 53 - Demo Plant - Reactor Unit 02**

Emission Unit Description: **Feed Hopper 1 to Feed Hopper 2**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,792
	UTM Easting (NAD 83, Zone 11)	m	289,693
Operating Parameters	Material Type Processed		Converter Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	46
	Stack Inside Diameter	feet	0.44
	Stack Temperature	°F	100
	Stack Exit Velocity	feet/second	274.03
	Actual Gas Volume Flow Rate	acfm	2,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 53 - Demo Plant - Reactor Unit 02**

Emission Unit Description: **Feed Hopper 2 to Screw Conveyor 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,792
	UTM Easting (NAD 83, Zone 11)	m	289,693
Operating Parameters	Material Type Processed		Converter Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	46
	Stack Inside Diameter	feet	0.44
	Stack Temperature	°F	100
	Stack Exit Velocity	feet/second	274.03
	Actual Gas Volume Flow Rate	acfm	2,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 53 - Demo Plant - Reactor Unit 02**

Emission Unit Description: **Reactor Unit 02 (IN: Screw Conveyor 1; OUT: Bin 1 or Bin 2)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.215
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,792
	UTM Easting (NAD 83, Zone 11)	m	289,693
Operating Parameters	Material Type Processed		Converter Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	46
	Stack Inside Diameter	feet	0.44
	Stack Temperature	°F	100
	Stack Exit Velocity	feet/second	274.03
	Actual Gas Volume Flow Rate	acfm	2,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 54 – Demo Plant – Feed Conveyor Stack**

Emission Unit Description: **Feed Conveyor to Feed Hopper 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	S2.218
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,781
	UTM Easting (NAD 83, Zone 11)	m	289,705
Operating Parameters	Material Type Processed		Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		Unknown
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	39
	Stack Inside Diameter	feet	0.25
	Stack Temperature	°F	77
	Stack Exit Velocity	feet/second	75.38
	Actual Gas Volume Flow Rate	acfm	222
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Material and chemical use will be tracked via select operational monitoring and product inventory throughout the process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Material to Vertical Infeed Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Vertical Infeed Conveyor to Shredder 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 1 to Shredder 1 Transfer Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 1 Transfer Auger to Shredder 2**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 2**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 2 to Shredder 2 Transfer Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 2 Transfer Auger to Shredder 3**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 3**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 3 to Shredder 3 Transfer Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Shredder 3 Transfer Auger to Washing Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit /batch*	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Washing Auger to Dewatering Screen**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Dewatering Screen to Course Shred Transfer Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Course Shred Transfer Auger to Coarse Shred Dryer**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Coarse Shred Dryer**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Coarse Shred Dryer to Course Shred Cooling Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Course Shred Cooling Auger to Course Shred Bagging Station**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Dewatering Screen to Wave Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Press to Filter Cake Discharge Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Cake Discharge Auger to Filter Cake Inclined Auger**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Cake Inclined Auger to Filter Cake Dryer**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Cake Dryer**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Cake Dryer to Filter Cake Cooling Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Cake Cooling Conveyor to Filter Cake Bagging Station**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Air Stripper**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filter Feed Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Commercial)**

Emission Unit Description: **Filtrate Tank**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,652
	UTM Easting (NAD 83, Zone 11)	m	289,581
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	3'
	Stack Temperature	°F	200
	Stack Exit Velocity	feet/second	53.3
	Actual Gas Volume Flow Rate	acfm	22,600
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Material to Shredder 1**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 1**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 1 to Shredder 1 Transfer Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 1 Transfer Auger to Shredder 2**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 2**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 2 to Shredder 2 Transfer Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 2 Transfer Auger to Shredder 3**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 3**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 3 to Shredder 3 Transfer Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Shredder 3 Transfer Auger to Washing Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Washing Auger to Compression Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Course Shred Bagging Auger to Course Shred Bagging Station**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Compression Auger to Wave Conveyor**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Filter Cake Dryer**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Filter Cake Dryer to Filter Cake Cooling Conveyor**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Filter Cake Cooling Conveyor to Filter Cake Bagging Station**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.
   _____
   _____
   _____

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Slurry Tank**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 1)**

Emission Unit Description: **Filtrate Tank**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	30'
	Stack Inside Diameter	feet	0.83'
	Stack Temperature	°F	120
	Stack Exit Velocity	feet/second	69.3
	Actual Gas Volume Flow Rate	acfm	2,250
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Material to Shredder 1**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 1**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 1 to Shredder 1 Transfer Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 1 Transfer Auger to Shredder 2**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 2**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 2 to Shredder 2 Transfer Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 2 Transfer Auger to Shredder 3**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 3**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 3 to Shredder 3 Transfer Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

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INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Shredder 3 Transfer Auger to Washing Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.
   _____
   _____
   _____

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Washing Auger to Compression Auger**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Course Shred Bagging Auger to Course Shred Bagging Station**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Compression Auger to Wave Conveyor**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

PUBLIC

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Filter Cake Dryer**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Filter Cake Dryer to Filter Cake Cooling Conveyor**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Filter Cake Cooling Conveyor to Filter Cake Bagging Station**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Slurry Tank**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).

   Throughput will be tracked via weight measurement at select points in process.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Wet Shred (Pilot 2)**

Emission Unit Description: **Filtrate Tank**

Alternative Operating Scenario: ☒ **Yes** ☐ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD (NEW)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	N/A
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4,374,609
	UTM Easting (NAD 83, Zone 11)	m	289,652
Operating Parameters	Material Type Processed		Battery Production Units
	Batch Process *if applicable*	*unit* /batch	N/A
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		N/A
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	N/A
Stack Parameters	Stack Height	feet	50'
	Stack Inside Diameter	feet	4'
	Stack Temperature	°F	1,650
	Stack Exit Velocity	feet/second	12.9
	Actual Gas Volume Flow Rate	acfm	9,750
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

PUBLIC

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be tracked via weight measurement at select points in process.

C

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 30 – Calcination – Reactor Unit**
Emission Unit Description: **Thermal Oxidizer Biodiesel-Fired Burner**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	S2.057
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,374,551.7
	UTM Easting (NAD 83, Zone 11)	m	289,290.1
Operating Parameters /Fuel Usage	Fuel Type		Biodiesel Production Units
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	N/A
	Heat Content	Btu/*unit*	127,960
	Start Time *(if operating less than 24 hours/day*	hour:minute	N/A
	End Time *(if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	40
	Stack Inside Diameter	feet	5.67
	Stack Temperature	°F	113
	Stack Exit Velocity	feet/second	106.1
	Actual Gas Volume Flow Rate	acfm	86,402
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	63,287.5
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Thermal Oxidizer Biodiesel-Fired Burner**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

   Hours of operation will be monitored and recorded. Fuel consumption will be calculated by multiplying the maximum hourly fuel consumption rate and the total daily hours of operations. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

   ☐ **Yes** ☒ **N0**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 51 – Material Fabrication**
Emission Unit Description: **Material Fabrication**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	S2.206
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,374,686.4
	UTM Easting (NAD 83, Zone 11)	m	289,651
Operating Parameters /Fuel Usage	Fuel Type		Kerosene Production Units
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.3%
	Heat Content	Btu/*unit*	126,663
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	21
	Stack Inside Diameter	feet	2
	Stack Temperature	°F	91
	Stack Exit Velocity	feet/second	106.1
	Actual Gas Volume Flow Rate	acfm	20,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Material Fabrication**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be calculated by multiplying the maximum hourly fuel consumption rate and the total daily hours of operations. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **N0**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System 53 - Demo Plant - Reactor Unit 02**
Emission Unit Description: **Thermal Oxidizer Bio-Diesel-Fired Burner**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ **Yes** ☐ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	S2.215
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,374,792
	UTM Easting (NAD 83, Zone 11)	m	289,693
Operating Parameters /Fuel Usage	Fuel Type		Biodiesel
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	N/A
	Heat Content	Btu/*unit*	127,960
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	46
	Stack Inside Diameter	feet	0.44
	Stack Temperature	°F	100
	Stack Exit Velocity	feet/second	274.03
	Actual Gas Volume Flow Rate	acfm	2,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Thermal Oxidizer Bio-Diesel-Fired Burner**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be calculated by multiplying the maximum hourly fuel consumption rate and the total daily hours of operations. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #1**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.015)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,507
	UTM Easting (NAD 83, Zone 11)	m	290,683
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #1**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #2**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.016)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,401
	UTM Easting (NAD 83, Zone 11)	m	290,742
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #2**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #3**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.017)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,303
	UTM Easting (NAD 83, Zone 11)	m	290,798
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #3**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #4**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.018)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,198
	UTM Easting (NAD 83, Zone 11)	m	290,857
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #4**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #5**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.019)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,190
	UTM Easting (NAD 83, Zone 11)	m	290,843
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #5**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #6**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.020)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,296
	UTM Easting (NAD 83, Zone 11)	m	290,784
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #6**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #7**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.021)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,393
	UTM Easting (NAD 83, Zone 11)	m	290,728
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #7**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 1 Heaters**
Emission Unit Description: **Building 1 Heater #8**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.022)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,498
	UTM Easting (NAD 83, Zone 11)	m	290,668
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	23.685
	Actual Gas Volume Flow Rate	acfm	14,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 1 Heater #8**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #1**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.023)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,320
	UTM Easting (NAD 83, Zone 11)	m	290,530
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #1**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #2**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.024)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,235
	UTM Easting (NAD 83, Zone 11)	m	290,577
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #2**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #3**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.025)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,150
	UTM Easting (NAD 83, Zone 11)	m	290,625
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #3**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #4**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.026)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,069
	UTM Easting (NAD 83, Zone 11)	m	290,670
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #4**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #5**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.027)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,066
	UTM Easting (NAD 83, Zone 11)	m	290,664
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #5**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #6**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.028)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,147
	UTM Easting (NAD 83, Zone 11)	m	290,620
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #6**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #7**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.029)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,232
	UTM Easting (NAD 83, Zone 11)	m	290,572
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #7**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #1-8**
Emission Unit Description: **Building 2 Heater #8**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.030)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,316
	UTM Easting (NAD 83, Zone 11)	m	290,525
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	feet	3.54
	Stack Temperature	°F	160
	Stack Exit Velocity	feet/second	20.25
	Actual Gas Volume Flow Rate	acfm	11,970
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #8**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #9**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.031)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,118
	UTM Easting (NAD 83, Zone 11)	m	290,703
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #9**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #10**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.032)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,099
	UTM Easting (NAD 83, Zone 11)	m	290,670
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #10**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #11**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.033)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,081
	UTM Easting (NAD 83, Zone 11)	m	290,640
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #11**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #12**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.034)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,061
	UTM Easting (NAD 83, Zone 11)	m	290,603
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #12**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #13**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.035)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,061
	UTM Easting (NAD 83, Zone 11)	m	290,603
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #13**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #14**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.036)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,076
	UTM Easting (NAD 83, Zone 11)	m	290,665
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #14**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #15**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.037)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,057
	UTM Easting (NAD 83, Zone 11)	m	290,636
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *If operating less than 24 hours/day*	hour:minute	N/A
	End Time *If operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #15**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #16**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.038)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,090
	UTM Easting (NAD 83, Zone 11)	m	290,720
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #16**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #17**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.039)
	Source Classification Code (SCC)	*e.g. 3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,068
	UTM Easting (NAD 83, Zone 11)	m	290,687
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #17**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #18**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.040)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,049
	UTM Easting (NAD 83, Zone 11)	m	290,657
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #18**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #19**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.041)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,031
	UTM Easting (NAD 83, Zone 11)	m	290,621
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #19**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #20**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.042)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,066
	UTM Easting (NAD 83, Zone 11)	m	290,715
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #20**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #21**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.043)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,047
	UTM Easting (NAD 83, Zone 11)	m	290,682
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #21**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **System TBD – Building 2 Heaters #9-22**
Emission Unit Description: **Building 2 Heater #22**
Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	TBD (Formerly IA1.044)
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,375,024
	UTM Easting (NAD 83, Zone 11)	m	290,642
Operating Parameters /Fuel Usage	Fuel Type		Natural Gas
	Fuel Flow Meter Installed?	yes/no/NA	Unknown
	Sulfur Content	%	N/A
	Heat Content	Btu/scf	1,020
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	42
	Stack Inside Diameter	inches	18.75" x 28.125"
	Stack Temperature	°F	70
	Stack Exit Velocity	feet/second	45.49
	Actual Gas Volume Flow Rate	acfm	10,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

PUBLIC

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Building 2 Heater #22**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be recorded using purchase records for the amount of natural gas purchased. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **Insignificant Activities**
Emission Unit Description: **Thermal Oxidizer Propane Burner**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☒ **Yes** ☐ **No** If yes, identify exemption regulation: NAC 445b.288.2(e)(1)
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	**TBD (NEW)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	Unknown
	Manufacturer		[redacted]
	Date Manufactured		
	Model and Serial Number		
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		N/A
	Date Constructed	month/day/yr	N/A
	Cylinder Displacement	liter/cylinder	N/A
	EPA Tier #		N/A
Location of Emission Source[1]	UTM Northing (NAD 83, Zone 11)	m	4,374,800
	UTM Easting (NAD 83, Zone 11)	m	289,687
Operating Parameters /Fuel Usage	Fuel Type		Propane
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	N/A
	Heat Content	Btu/gal	91,500
	Start Time *if operating less than 24 hours/day*	hour:minute	N/A
	End Time *if operating less than 24 hours/day*	hour:minute	N/A
Control Equipment	Manufacturer		[redacted]
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	
Stack Parameters[1]	Stack Height	feet	46
	Stack Inside Diameter	feet	0.44
	Stack Temperature	°F	100
	Stack Exit Velocity	feet/second	274.03
	Actual Gas Volume Flow Rate	acfm	2,500
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	Unknown
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Thermal Oxidizer Propane Burner**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Hours of operation will be monitored and recorded. Fuel consumption will be calculated by multiplying the maximum hourly fuel consumption rate and the total daily hours of operations. Records will then be updated to show monthly and yearly totals.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

FACILITY-WIDE POTENTIAL TO EMIT TABLE
(FOR ALL SOURCES INCLUDING INSIGNIFICANT ACTIVITIES)
(POUND/HOUR AND TON/YEAR)

Pollutant	Facility-Wide Potential to Emit (pound/hour)	Facility-Wide Potential to Emit (ton/year)
Total Particulate Matter (PM)	22.62	41.94
Total PM_{10}	21.29	36.11
Total $PM_{2.5}$	20.64	33.26
Total Sulfur Dioxide (SO_2)	9.90	20.90
Total Carbon Monoxide (CO)	117.68	42.12
Total Oxides of Nitrogen (NO_X)	111.89	78.83
Total Volatile Organic Compounds (VOC)	109.46	59.10
Total Hydrogen Sulfide (H_2S)	0.40	1.75
Total Sulfuric Acid Mist (H_2SO_4)	0.60	2.61
Total Hazardous Air Pollutants (HAPs)	59.58	21.14
Total Greenhouse Gases (CO_{2e})	19,006.00	19,173.98
Other Regulated Pollutants (Specify)		
Hydrochloric Acid (HCl)	29.58	4.21
Hydrogen Fluoride (HF)	15.74	1.61

Note: Facility-wide PTE was determined on a pollutant-specific basis by selecting the highest potential emission rate for each pollutant from all applicable operating scenarios. As a result, the facility-wide PTE may reflect a combination of maximum pollutant emissions from multiple operating scenarios and does not necessarily represent emissions from a single operating configuration.

REVISION TABLE

Please complete the table below if this application is for a **Revision** of an existing Class II Air Quality Operating Permit. Add more columns if needed for any other applicable regulated pollutants. All Potential To Emit (PTE) must be in tons per year (TPY) [NAC 445B.3457(5)(b)]

Description	Pollutants									
	PM	PM_{10}	$PM_{2.5}$	SO_2	NOx	CO	VOC	HAPs	CO_{2e}	HCl
Permitted Facility-Wide PTE (TPY)	38.42	35.98	34.68	20.94	86.83	43.63	36.52	22.37	27,421.57	5.45
Proposed Facility-Wide PTE (TPY)	41.94	36.11	33.26	20.90	78.83	42.12	59.10	21.14	19,173.98	4.21
Change in Facility-Wide PTE (TPY)	+3.52	+0.13	-1.42	-0.04	-8.00	-1.51	+22.58	-1.23	-8,247.59	-1.24

E

FACILITY-WIDE POTENTIAL TO EMIT - SUMMARY

Permit ID	System Description	Emission Rates (lb/hr)															Annual Emissions (tons/yr)														
		PM	PM10	PM2.5	NOx	SO2	CO	VOC	Total HAP	H2S	H2SO4	Dioxin/Furan	MHAP (Note 2)	HF	HCl	Formaldehyde	NH3	CO2e	PM	PM10	PM2.5	NOx	SO2	CO	VOC	Total HAP	H2S	H2SO4	Dioxin & Furans	MHAP (Note 2)	HF	HCl	Formaldehyde	NH3	CO2e
Building 10																																		
Systems 15-22, TBD	Additive Mixing Tanks/Water Recycling Additive Mixing Tanks	1.82	0.64	0.10															7.97	2.79	0.42														
System 50	Vessel 3	3.75E-05	3.75E-05	3.75E-05					3.75E-05		3.75E-05		3.75E-05						1.64E-04	1.64E-04	1.64E-04					1.64E-04		1.64E-04		1.64E-04					
System 23	Baffling Dust Collector	0.20	0.20	0.20															0.88	0.88	0.88														
System 25	Passivation Fume Scrubber	0.12	0.12	0.12					0.12				0.12						0.52	0.52	0.52									1.78E-03					
System 26	Feed Fume Scrubber	0.07	0.07	0.07		4.33E-02			6.65E-02		0.01		6.65E-02						0.29	0.29	0.29		1.90E-01			0.29		0.03		0.29					
HYDROMET BUILDING																																		
System 01	Powder Dust Collector #1	0.66	0.66	0.66					0.01				0.01						2.87	2.87	2.87					0.05				0.05					
System 02	Powder Dust Collector #2	0.14	0.14	0.14					0.0045				0.0045						0.60	0.60	0.60					0.020				0.020					
System 03	Powder Storage Silo	1.53E-03	5.25E-04	7.72E-05					2.13E-03				0.002						6.69E-03	2.30E-03	3.38E-04					6.69E-03				6.69E-03					
System 04	Acid Reaction Tanks									0.34	0.49																1.50	2.16							
System 07	Salt 1 Dust Collector	0.01	0.01	0.01					0.01				0.01						0.06	0.06	0.06					0.06				0.06					
System 11	Salt 2 Dust Collector	0.03	0.03	0.03					0.002				0.002						0.14	0.14	0.14					0.01				0.01					
Systems 12-13	Raw Material 1 Silo & Transfer	0.20	0.10	1.38E-02															0.90	0.42	0.06														
System 05	Cake 1 Filter	**Saturated (No Emission Potential)**																	**Saturated (No Emission Potential)**																
System 06	Salt 1 Transfers	**Fully Enclosed & Saturated (No Emission Potential)**																	**Fully Enclosed & Saturated (No Emission Potential)**																
System 08-09	Cake 2-Cake 3 Separation	**Saturated (No Emission Potential)**																	**Saturated (No Emission Potential)**																
System 10	Salt 2 Transfers	**Saturated & Enclosed During Operation (No Emission Potential)**																	**Saturated & Enclosed During Operation (No Emission Potential)**																
System 47	HMC Transfers	**Saturated (No Emission Potential)**																	**Saturated (No Emission Potential)**																
System 48	Calcium Carbonate Transfers	**Saturated (No Emission Potential)**																	**Saturated (No Emission Potential)**																
System 49	Calcium Carbonate Pre-Coat Material Handling	3.46E-02	1.21E-02	1.84E-03															1.52E-01	5.31E-02	8.05E-03														
RC-1 BUILDING																																		
System 30	Calcination - Reactor Unit	2.46	2.46	2.46	14.10	4.50	3.96	7.02	1.11			8.87E-04	0.03	0.24	0.83			731.10	10.76	10.76	10.76	61.77	19.70	17.34	30.75	4.87			3.88E-03	0.21	1.04	3.63			3,202.22
System 31	Calcination - Material Handling	0.40	0.40	0.40					0.01				0.01						1.77	1.77	1.77					0.05				0.05					
System 46	Calcination - Feed Preparation	0.31	0.31	0.31					0.31				0.31						1.35	1.35	1.35					1.35				1.35					
System 34	Calcination - Lime Dosing	1.06E-03	6.16E-04	8.80E-05															4.80E-03	2.80E-03	4.00E-04														
System TBD	Wet Shredding Process - Commercial	0.51	0.51	0.51	0.39	0.00	0.65	5.25	0.57				0.51	0.05				934.92	1.68	1.68	1.68	1.28	0.02	2.15	17.24	1.88				1.68	0.15				3,071.21
System TBD	Wet Shredding Process - Pilot 1 (AOS1)	0.03	0.03	0.03				6.76	0.03				0.03	0.00					0.10	0.10	0.10				22.20	0.10				0.10	0.00				
System TBD	Wet Shredding Process - Pilot 2 (AOS2)	0.21	0.21	0.21	0.39	0.00	0.65	6.95	0.23				0.21	0.00				934.92	0.71	0.71	0.71	1.28	0.02	2.15	22.84	0.76				0.71	0.01				3,071.21
CATHODE ACTIVE MATERIALS 1 (PCAM) BUILDING																																		
~~System 35~~	~~Cathode Active Materials 1 Processing - Material Receiving Dust~~	~~0.09~~	~~0.09~~	~~0.09~~									~~0.09~~						~~0.39~~	~~0.39~~	~~0.39~~					~~0.39~~				~~0.39~~					
~~System 36~~	~~Cathode Active Materials 1 Processing - Cathode Active Materials 1 Scrubber~~																~~0.14~~															~~0.62~~		
~~System 37~~	~~Cathode Active Materials 1 Processing - Cathode Active Materials 1 Material Handling Dust Collector~~	~~0.09~~	~~0.09~~	~~0.09~~					~~0.09~~				~~0.09~~						~~0.39~~	~~0.39~~	~~0.39~~					~~0.39~~				~~0.39~~					
System 51	Material Fabrication	0.36	0.36	0.36	0.17	0.36	5.04	0.09	0.00				0.00					183.45	0.63	0.62	0.61	0.30	0.63	8.82	0.16	0.01				0.00					321.05
System 52	Demo Plant - Powder Dust Collector	0.03	0.03	0.03					0.03				0.03						0.12	0.12	0.12					0.12				0.12					
System 53	Demo Plant - Reactor Unit 02	0.14	0.14	0.14	0.22	0.01269	0.46	9.45E-03	1.36E-01				1.36E-01	2.45E-02				7.18	0.60	0.60	0.60	0.98	0.06	2.02	0.04	0.70				0.60	0.11				31.43
System 54	Demo Plant - Silo 1	1.33E-02	1.33E-02	1.33E-02					1.33E-02				1.33E-02						5.83E-02	5.83E-02	5.83E-02					5.83E-02				5.83E-02					
System 55	Demo Plant - Raw Material 1 Addition	2.01E-04	1.17E-04	1.68E-05															8.81E-04	5.14E-04	7.34E-05														
System 56	Demo Plant - Acid Reaction Tanks									0.06	2.93E-02							6.92										0.25	1.28E-01						30.32
System 57	Demo Plant - Concentrate 1 Dryer Dust Collector	0.15	0.15	0.15					0.15				0.15						0.66	0.66	0.66					0.66				0.66					
System 58	Demo Plant - Material Transfers	**Saturated (No Emission Potential)**																	**Saturated (No Emission Potential)**																
System 59	Demo Plant - LC Pilot Plant - LC Pilot Plant Dust Collector	0.15	0.15	0.15					0.15				0.15						0.65	0.65	0.65					0.65				0.65					
System 60	Demo Plant - LC Pilot Plant - O2 Exhaust Stack										0.07																	0.29						
System 61	Demo Plant - LC Pilot Plant - Material Transfers	**Saturated (No Emission Potential)**																	**Saturated (No Emission Potential)**																
METAL HYDROXIDE PROCESSSING																																		
~~System 39~~	~~Metal Hydroxide Processing - Metal Hydroxide Material Handling Dust Collector~~	~~0.17~~	~~0.17~~	~~0.17~~															~~0.75~~	~~0.75~~	~~0.75~~														
CATHODE ACTIVE MATERIALS 2 (CAM) PROCESSING																																		
System 40	Cathode Active Materials 2 Processing - Material Handling Dust Collector #1	0.12	0.12	0.12					0.12				0.12						0.53	0.53	0.53					0.53				0.53					
System 41	Cathode Active Materials 2 Processing - Kiln 1 Dust Collector	0.23	0.23	0.23					0.23				0.23						1.02	1.02	1.02					1.02				1.02					
System 42	Cathode Active Materials 2 Processing - Material Handling Dust Collector #2	0.21	0.21	0.21					0.21				0.21						0.92	0.92	0.92					0.92				0.92					
CAM COMMERCIAL PROCESSING																																		
System 64	System 64 - Dust Collector - CAM2 Line 1	0.04	0.04	0.04					0.04				0.04						0.18	0.18	0.18					0.18				0.18					
System 65	System 65 General Exhaust - CAM2 Line 1	0.014	0.008	0.001					0.014				0.014						0.06	0.037	0.005					0.06				0.06					
System 66	System 66 - General Exhaust - CAM2 Line 1	0.007	0.007	0.007					0.007				0.007						0.030	0.030	0.030					0.030				0.030					
System 67	System 67 - General Exhaust - CAM2 Line 1	0.001	0.001	0.001					0.001				0.001						0.004	0.004	0.004					0.004				0.004					
System 68	System 68 - Dust Collector - CAM2 Line 1	0.07	0.07	0.07					0.07				0.07						0.31	0.31	0.31					0.31				0.31					
System 69	System 69 - Dust Collector - CAM2 Line 1	0.02	0.02	0.02					0.02				0.02						0.11	0.11	0.11					0.11				0.11					
System 70	System 70 - Dust Collector - CAM2 Line 1	0.11	0.11	0.11					0.11				0.11						0.50	0.50	0.50					0.50				0.50					
System 71	System 71 - Dust Collector - CAM2 Line 1	0.05	0.05	0.05					0.05				0.05						0.21	0.21	0.21					0.21				0.21					
System 72	System 72 - Dust Collector - CAM2 Line 1	0.25	0.25	0.25					0.25				0.25						1.11	1.11	1.11					1.11				1.11					
System 73	System 73 - General Exhaust - CAM2 Line 1	0.003	0.003	0.003					0.003				0.003						0.01	0.01	0.01					0.011				0.011					
System 74	System 74 - Dust Collector - CAM2 Line 1	0.01	0.01	0.01					0.005				0.005						0.02	0.02	0.02					0.02				0.02					
System 75	System 75 - Dust Collector - CAM2 Line 1	0.07	0.07	0.07					0.07				0.07						0.30	0.30	0.30					0.30				0.30					
System 76	System 76 - Dust Collector - CAM2 Line 2	0.04	0.04	0.04					0.04				0.04						0.18	0.18	0.18					0.18				0.18					
System 77	System 77 General Exhaust - CAM2 Line 2	0.014	0.008	0.001					0.014				0.014						0.06	0.037	0.005					0.06				0.06					
System 78	System 78 - General Exhaust - CAM2 Line 2	0.007	0.007	0.007					0.007				0.007						0.030	0.030	0.030					0.030				0.030					
System 79	System 79 - General Exhaust - CAM2 Line 2	0.001	0.001	0.001					0.001				0.001						0.004	0.004	0.004					0.004				0.004					
System 80	System 80 - Dust Collector - CAM2 Line 2	0.07	0.07	0.07					0.07				0.07						0.31	0.31	0.31					0.31				0.31					
System 81	System 81 - Dust Collector - CAM2 Line 2	0.02	0.02	0.02					0.02				0.02						0.11	0.11	0.11					0.11				0.11					
System 82	System 82 - Dust Collector - CAM2 Line 2	0.11	0.11	0.11					0.11				0.11						0.50	0.50	0.50					0.50				0.50					
System 83	System 83 - Dust Collector - CAM2 Line 2	0.05	0.05	0.05					0.05				0.05						0.21	0.21	0.21					0.21				0.21					
System 84	System 84 - Dust Collector - CAM2 Line 2	0.25	0.25	0.25					0.25				0.25						1.11	1.11	1.11					1.11				1.11					
System 85	System 85 - General Exhaust - CAM2 Line 2	0.005	0.005	0.005					0.003				0.003						0.01	0.01	0.01					0.011				0.011					
System 86	System 86 - Dust Collector - CAM2 Line 2	0.01	0.01	0.01					0.005				0.005						0.02	0.02	0.02					0.02				0.02					
System 87	System 87 - Dust Collector - CAM2 Line 2	0.07	0.07	0.07					0.07				0.07						0.30	0.30	0.30					0.30				0.30					
System 88	System 88 General Exhaust - Fume Hoods	0.004	0.002	0.0004					0.004				0.004						0.02	0.01	0.002					0.02				0.02					
TESTING ACTIVITIES																																		
System 91	System 91 - Product Safety Testing	9.57	9.57	9.57	0.04		53.09	9.26	54.58				9.57	15.43	28.75	0.83			0.19	0.19	0.19	0.050		1.06	0.19	1.09				0.19	0.31	0.57	0.02		
LAB ACTIVITIES																																		
System 24	Analytical Lab A							See Note 1	See Note 1																0.12	0.10								
System 44	Analytical Lab B																																	
System 44	Analytical Lab C							See Note 1	See Note 1																0.05	0.11								
System 44	Analytical Lab D																																	
System 45	Analytical Lab E							See Note 1	See Note 1																0.12	0.15								
COMBUSTION																																		
Systems 27-28, 32, 43, 62-63, 87-88	Diesel Combustion	3.04	3.04	3.04	92.54	4.95	50.78	85.88	0.34									11,780.25	0.15	0.15	0.15	4.63	0.25	2.54	4.29	1.71E-02									589.01
System TBD	Building Heaters	0.33	0.33	0.33	4.37	0.03	3.67	0.24	8.25E-02									5,277.43	0.73	0.73	0.73	9.57	0.06	8.04	0.53	1.81E-01									11557.6
INSIGNIFICANT ACTIVITIES																																		
Insignificant Activities	Biodiesel Tank							See Note 1																	1.63E-03									
	Acid Tanks									5.16E-04																		2.26E-03							
	Calcium Carbonate Filter Feed Tank																																	163.8
	Thermal Oxidizer Propane Burner	3.06E-03	3.06E-03	3.06E-03	5.68E-02	2.36E-04	3.28E-02	4.37E-03	7.40E-04									47.34	0.01	0.01	0.01	0.25	0.001	0.14	0.02	3.24E-03									207.3
FACILITY-WIDE TOTAL		**22.62**	**21.29**	**20.64**	**111.89**	**9.90**	**117.68**	**107.75**	**59.58**	**0.40**	**0.60**	**8.87E-04**	**13.01**	**15.74**	**29.58**	**0.83**	**0.00**	**19,006.00**	**41.94**	**36.11**	**33.26**	**78.83**	**20.90**	**42.12**	**53.50**	**21.14**	**1.75**	**2.61**	**3.88E-03**	**14.17**	**1.61**	**4.21**	**0.02**	**0.00**	**19,173.98**
FACILITY-WIDE TOTAL (Wet Shred Alternative Operating Scenario 1)		**22.14**	**20.81**	**20.16**	**111.50**	**9.89**	**117.03**	**109.26**	**59.03**	**0.40**	**0.60**	**8.87E-04**	**12.53**	**15.69**	**29.58**	**0.83**	**0.00**	**18,071.08**	**40.37**	**34.53**	**31.68**	**77.55**	**20.88**	**39.97**	**58.46**	**19.36**	**1.75**	**2.61**	**3.88E-03**	**12.60**	**1.46**	**4.21**	**0.02**	**0.00**	**16,102.77**
FACILITY-WIDE TOTAL (Wet Shred Alternative Operating Scenario 2)		**22.33**	**21.00**	**20.35**	**111.89**	**9.90**	**117.68**	**109.46**	**59.23**	**0.40**	**0.60**	**8.87E-04**	**12.71**	**15.70**	**29.58**	**0.83**	**0.00**	**19,006.00**	**40.97**	**35.14**	**32.29**	**78.83**	**20.90**	**42.12**	**59.10**	**20.02**	**1.75**	**2.61**	**3.88E-03**	**13.20**	**1.46**	**4.21**	**0.02**	**0.00**	**19,173.98**
REVISION 10 (July 2026 - AIR CASE 12952)		**16.21**	**15.66**	**15.36**	**111.62**	**9.89**	**69.07**	**97.39**	**14.48**	**0.40**	**0.59**	**8.87E-04**	**7.23**	**5.44**	**1.24**	**---**	**0.14**	**18,016.56**	**38.42**	**35.98**	**34.68**	**86.83**	**20.94**	**43.63**	**36.52**	**22.37**	**1.75**	**2.58**	**3.88E-03**	**12.38**	**2.20**	**5.45**	**---**	**0.62**	**27,421.57**

Note 1: Emissions not calculated on an hourly basis.
Note 2: Please note that Systems 01, 02, 11, 25, 30, 31, and 51 used MHAP emission factors derived from stack testing. All other MHAP totals and individual metal HAP emissions conservatively assume total PM=MHAP. Actual MHAP emissions for these sources are anticipated to be lower given the compound nature of the materials being handled and the emission control regimen being implemented is anticipated to offer removal of these metals given the particle size and air pollution control size exclusion properties (i.e., MERV, HEPA, etc.)

Revision 11 (September 2026)

Industrial Calculations - Wet Shred (Commercial)

Unit No.	Unit Description	Operating Hours		Public Throughput			Controls		Emissions				
		Daily	Annual	Hourly	Annual	Units	Type	Control Efficiency	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System TBD - Wet Shred													
TBD	Material to Vertical Infeed Conveyor	24	6570	9.2	60,444	Production Units	Dust Collector	99.9%	PM/PM10/ PM2.5/MHAP	0.003	gr/dscf	0.51	1.68
TBD	Vertical Infeed Conveyor to Shredder 1			9.2	60,444	Production Units							
TBD	Shredder 1			9.2	60,444	Production Units							
TBD	Shredder 1 to Shredder 1 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 1 Transfer Auger to Shredder 2			9.2	60,444	Production Units							
TBD	Shredder 2			9.2	60,444	Production Units							
TBD	Shredder 2 to Shredder 2 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 2 Transfer Auger to Shredder 3			9.2	60,444	Production Units							
TBD	Shredder 3			9.2	60,444	Production Units							
TBD	Shredder 3 to Shredder 3 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 3 Transfer Auger to Washing Auger			9.2	60,444	Production Units							
TBD	Washing Auger to Dewatering Screen			9.2	60,444	Production Units							
TBD	Dewatering Screen to Course Shred Transfer Auger			9.2	60,444	Production Units							
TBD	Course Shred Transfer Auger to Course Shred Dryer			9.2	60,444	Production Units							
TBD	Coarse Shred Dryer			9.2	60,444	Production Units							
TBD	Coarse Shred Dryer to Course Shred Cooling Auger			9.2	60,444	Production Units							
TBD	Course Shred Cooling Auger to Course Shred Bagging Station			9.2	60,444	Production Units							
TBD	Dewatering Screen to Wave Conveyor			9.2	60,444	Production Units							
TBD	Filter Press to Filter Cake Discharge Auger			9.2	60,444	Production Units							
TBD	Filter Cake Discharge Auger to Filter Cake Inclined Auger			9.2	60,444	Production Units							
TBD	Filter Cake Inclined Auger to Filter Cake Dryer			9.2	60,444	Production Units							
TBD	Filter Cake Dryer			9.2	60,444	Production Units							
TBD	Filter Cake Dryer to Filter Cake Cooling Conveyor			9.2	60,444	Production Units							
TBD	Filter Cake Cooling Conveyor to Filter Cake Bagging Station			9.2	60,444	Production Units							
TBD	Air Stripper			9.2	60,444	Production Units	Regenerative Thermal Oxidizer	99.0%	VOC	2.38	kg/hr	5.25	17.24
TBD	Filter Feed Tank			9.2	60,444	Production Units							
TBD	Filtrate Tank			9.2	60,444	Production Units		0.0%	HF	0.021	kg/hr	0.047	0.15

= Added in September 2026 Revision

Thermal Oxidizer Combustion

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System TBD - Wet Shred											
TBD	Thermal Oxidizer Natural Gas Burner	24	6570	15.582	102373.74	Natural Gas Production Units	PM/PM10/PM2.5/MHAP	Reported in industrial calculations			
							SO2	0.6	lb/MMscf	0.005	0.02
							NOx	50.00	lb/MMscf	0.390	1.28
							CO	84.00	lb/MMscf	0.654	2.15
							VOC	Reported in industrial calculations			
							CO2	120000	lb/MMscf	934.920	3071.21

Thermal Oxidizer Combustion - HAP Emissions

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System TBD - Wet Shred											
TBD	Thermal Oxidizer Natural Gas Burner	24	6570	15.58	102373.74	Natural Gas Production Units	2-Methylnaphthalene	2.40E-05	lb/MMscf	1.87E-07	6.14E-07
							3-Methylcholanthrene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							7,12-Dimethylbenz(a)anthracene	1.60E-05	lb/MMscf	1.25E-07	4.09E-07
							Acenaphthene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Acenaphthylene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Anthracene	2.40E-06	lb/MMscf	1.87E-08	6.14E-08
							Benz(a)anthracene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Benzene	2.10E-03	lb/MMscf	1.64E-05	5.37E-05
							Benzo(a)pyrene	1.20E-06	lb/MMscf	9.35E-09	3.07E-08
							Benzo(b)fluoranthene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Benzo(g,h,i)perylene	1.20E-06	lb/MMscf	9.35E-09	3.07E-08
							Benzo(k)fluoranthene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Chrysene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Dibenzo(a,h)anthracene	1.20E-06	lb/MMscf	9.35E-09	3.07E-08
							Dichlorobenzene	1.20E-03	lb/MMscf	9.35E-06	3.07E-05
							Fluoranthene	3.00E-06	lb/MMscf	2.34E-08	7.68E-08
							Fluorene	2.80E-06	lb/MMscf	2.18E-08	7.17E-08
							Formaldehyde	7.50E-02	lb/MMscf	5.84E-04	1.92E-03
							Hexane	1.80E+00	lb/MMscf	1.40E-02	4.61E-02
							Indeno(1,2,3-cd)pyrene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Naphthalene	6.10E-04	lb/MMscf	4.75E-06	1.56E-05
							Phenanathrene	1.70E-05	lb/MMscf	1.32E-07	4.35E-07
							Pyrene	5.00E-06	lb/MMscf	3.90E-08	1.28E-07
							Toluene	3.40E-03	lb/MMscf	2.65E-05	8.70E-05
							Arsenic	2.00E-04	lb/MMscf	1.56E-06	5.12E-06
							Beryllium	1.20E-05	lb/MMscf	9.35E-08	3.07E-07
							Cadmium	1.10E-03	lb/MMscf	8.57E-06	2.82E-05
							Chromium	1.40E-03	lb/MMscf	1.09E-05	3.58E-05
							Cobalt	8.40E-05	lb/MMscf	6.54E-07	2.15E-06
							Manganese	3.80E-04	lb/MMscf	2.96E-06	9.73E-06
							Mercury	2.60E-04	lb/MMscf	2.03E-06	6.65E-06
							Nickel	2.10E-03	lb/MMscf	1.64E-05	5.37E-05
							Selenium	2.40E-05	lb/MMscf	1.87E-07	6.14E-07
									Total	**1.47E-02**	**4.83E-02**

Industrial Calculations - Wet Shred (Pilot 1)

Unit No.	Unit Description	Operating Hours		Public Throughput			Controls		Emissions				
		Daily	Annual	Hourly	Annual	Units	Type	Control Efficiency	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System TBD - Wet Shred													
TBD	Material to Shredder 1	24	6570	9.2	60,444	Production Units	Dust Collector	99.9%	PM/PM10/ PM2.5/MHAP	0.002	gr/dscf	0.03	0.10
TBD	Shredder 1			9.2	60,444	Production Units							
TBD	Shredder 1 to Shredder 1 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 1 Transfer Auger to Shredder 2			9.2	60,444	Production Units							
TBD	Shredder 2			9.2	60,444	Production Units							
TBD	Shredder 2 to Shredder 2 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 2 Transfer Auger to Shredder 3			9.2	60,444	Production Units							
TBD	Shredder 3			9.2	60,444	Production Units							
TBD	Shredder 3 to Shredder 3 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 3 Transfer Auger to Washing Auger			9.2	60,444	Production Units							
TBD	Washing Auger to Compression Auger			9.2	60,444	Production Units							
TBD	Course Shred Bagging Auger to Course Shred Bagging Station			9.2	60,444	Production Units							
TBD	Compression Auger to Wave Conveyor			9.2	60,444	Production Units							
TBD	Filter Cake Dryer			9.2	60,444	Production Units							
TBD	Filter Cake Dryer to Filter Cake Cooling Conveyor			9.2	60,444	Production Units							
TBD	Filter Cake Cooling Conveyor to Filter Cake Bagging Station			9.2	60,444	Production Units							
TBD	Slurry Tank			9.2	60,444	Production Units	Exhaust Scrubber / Activated Carbon Scrubber	95.2%	VOC	3.07	kg/hr	6.76	22.20
TBD	Filtrate Tank			9.2	60,444	Production Units		95.0%	HF	0.000	kg/hr	0.001	0.0033

[ ] = Added in September 2026 Revision

Industrial Calculations - Wet Shred (Pilot 2)

Unit No.	Unit Description	Operating Hours		Public Throughput			Controls		Emissions				
		Daily	Annual	Hourly	Annual	Units	Type	Control Efficiency	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System TBD - Wet Shred													
TBD	Material to Shredder 1	24	6570	9.2	60,444	Production Units	Dust Collector	99.9%	PM/PM10/ PM2.5/MHAP	0.014	gr/dscf	0.21	0.71
TBD	Shredder 1			9.2	60,444	Production Units							
TBD	Shredder 1 to Shredder 1 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 1 Transfer Auger to Shredder 2			9.2	60,444	Production Units							
TBD	Shredder 2			9.2	60,444	Production Units							
TBD	Shredder 2 to Shredder 2 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 2 Transfer Auger to Shredder 3			9.2	60,444	Production Units							
TBD	Shredder 3			9.2	60,444	Production Units							
TBD	Shredder 3 to Shredder 3 Transfer Auger			9.2	60,444	Production Units							
TBD	Shredder 3 Transfer Auger to Washing Auger			9.2	60,444	Production Units							
TBD	Washing Auger to Compression Auger			9.2	60,444	Production Units							
TBD	Course Shred Bagging Auger to Course Shred Bagging Station			9.2	60,444	Production Units							
TBD	Compression Auger to Wave Conveyor			9.2	60,444	Production Units							
TBD	Filter Cake Dryer			9.2	60,444	Production Units							
TBD	Filter Cake Dryer to Filter Cake Cooling Conveyor			9.2	60,444	Production Units							
TBD	Filter Cake Cooling Conveyor to Filter Cake Bagging Station			9.2	60,444	Production Units							
TBD	Slurry Tank			9.2	60,444	Production Units	Exhaust Scrubber / Regenerative Thermal Oxidizer	95.0%	VOC	3.15	kg/hr	6.95	22.84
TBD	Filtrate Tank			9.2	60,444	Production Units		90.0%	HF	0.001	kg/hr	0.002	0.0066

= Added in September 2026 Revision

Thermal Oxidizer Combustion

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System TBD - Wet Shred											
TBD	Thermal Oxidizer Natural Gas Burner	24	6570	15.582	102373.74	Natural Gas Production Units	PM/PM10/PM2.5/MHAP	Reported in industrial calculations			
							SO2	0.6	lb/MMscf	0.005	0.02
							NOx	50.00	lb/MMscf	0.390	1.28
							CO	84.00	lb/MMscf	0.654	2.15
							VOC	Reported in industrial calculations			
							CO2	120000	lb/MMscf	934.920	3071.21

Thermal Oxidizer Combustion - HAP Emissions

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System 53 - Demo Plant - Reactor Unit 02											
TBD	Thermal Oxidizer Biodiesel Burner	24	6570	15.58	102373.74	Natural Gas Production Units	2-Methylnaphthalene	2.40E-05	lb/MMscf	1.87E-07	6.14E-07
							3-Methylcholanthrene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							7,12-Dimethylbenz(a)anthracene	1.60E-05	lb/MMscf	1.25E-07	4.09E-07
							Acenaphthene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Acenaphthylene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Anthracene	2.40E-06	lb/MMscf	1.87E-08	6.14E-08
							Benz(a)anthracene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Benzene	2.10E-03	lb/MMscf	1.64E-05	5.37E-05
							Benzo(a)pyrene	1.20E-06	lb/MMscf	9.35E-09	3.07E-08
							Benzo(b)fluoranthene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Benzo(g,h,i)perylene	1.20E-06	lb/MMscf	9.35E-09	3.07E-08
							Benzo(k)fluoranthene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Chrysene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Dibenzo(a,h)anthracene	1.20E-06	lb/MMscf	9.35E-09	3.07E-08
							Dichlorobenzene	1.20E-03	lb/MMscf	9.35E-06	3.07E-05
							Fluoranthene	3.00E-06	lb/MMscf	2.34E-08	7.68E-08
							Fluorene	2.80E-06	lb/MMscf	2.18E-08	7.17E-08
							Formaldehyde	7.50E-02	lb/MMscf	5.84E-04	1.92E-03
							Hexane	1.80E+00	lb/MMscf	1.40E-02	4.61E-02
							Indeno(1,2,3-cd)pyrene	1.80E-06	lb/MMscf	1.40E-08	4.61E-08
							Naphthalene	6.10E-04	lb/MMscf	4.75E-06	1.56E-05
							Phenanathrene	1.70E-05	lb/MMscf	1.32E-07	4.35E-07
							Pyrene	5.00E-06	lb/MMscf	3.90E-08	1.28E-07
							Toluene	3.40E-03	lb/MMscf	2.65E-05	8.70E-05
							Arsenic	2.00E-04	lb/MMscf	1.56E-06	5.12E-06
							Beryllium	1.20E-05	lb/MMscf	9.35E-08	3.07E-07
							Cadmium	1.10E-03	lb/MMscf	8.57E-06	2.82E-05
							Chromium	1.40E-03	lb/MMscf	1.09E-05	3.58E-05
							Cobalt	8.40E-05	lb/MMscf	6.54E-07	2.15E-06
							Manganese	3.80E-04	lb/MMscf	2.96E-06	9.73E-06
							Mercury	2.60E-04	lb/MMscf	2.03E-06	6.65E-06
							Nickel	2.10E-03	lb/MMscf	1.64E-05	5.37E-05
							Selenium	2.40E-05	lb/MMscf	1.87E-07	6.14E-07
									Total	**1.47E-02**	**4.83E-02**

Process Additives - Fugutive Emission Calculations

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate	Yearly Rate
System 15 - Additive Mixing Tank											
S2.036	Additive 1 to Mixing Tank	24	8760	0.36	3154.4	additive production units	PM	3.14	lb/ton	6.23E-01	2.73E+00
							PM_{10}	1.10	lb/ton	2.18E-01	9.56E-01
							$PM_{2.5}$	0.17	lb/ton	3.31E-02	1.45E-01
System 16 - Additive Mixing Tank											
S2.037	Additive 2 to Mixing Tank	24	8760	0.12	1046.7	additive production units	PM	3.14	lb/ton	2.07E-01	9.06E-01
							PM_{10}	1.10	lb/ton	7.24E-02	3.17E-01
							$PM_{2.5}$	0.17	lb/ton	1.10E-02	4.81E-02
System 17 - Additive Mixing Tank											
S2.038	Additive 3 to Mixing Tank	24	8760	0.01	99.3	additive production units	PM	3.14	lb/ton	1.96E-02	8.60E-02
							PM_{10}	1.10	lb/ton	6.88E-03	3.01E-02
							$PM_{2.5}$	0.17	lb/ton	1.04E-03	4.56E-03
System 18 - Additive Mixing Tank											
S2.039	Additive 4 to Mixing Tank	24	8760	0.01	105.1	additive production units	PM	3.14	lb/ton	2.08E-02	9.10E-02
							PM_{10}	1.10	lb/ton	7.28E-03	3.19E-02
							$PM_{2.5}$	0.17	lb/ton	1.10E-03	4.83E-03
System 19 - Additive Mixing Tank											
S2.040	Additive 5 to Mixing Tank	24	8760	0.01	99.3	additive production units	PM	3.14	lb/ton	1.96E-02	8.60E-02
							PM_{10}	1.10	lb/ton	6.88E-03	3.01E-02
							$PM_{2.5}$	0.17	lb/ton	1.04E-03	4.56E-03
System TBD - Additive Mixing Tank											
TBD	Additive 6 to Mixing Tank	24	8760	0.36	3153.6	additive production units	PM	3.14	lb/ton	6.23E-01	2.73E+00
							PM_{10}	1.10	lb/ton	2.18E-01	9.56E-01
							$PM_{2.5}$	0.17	lb/ton	3.31E-02	1.45E-01
System TBD - Additive Mixing Tank											
TBD	Additive 7 to Mixing Tank	24	8760	0.12	1051.2	additive production units	PM	3.14	lb/ton	2.08E-01	9.10E-01
							PM_{10}	1.10	lb/ton	7.28E-02	3.19E-01
							$PM_{2.5}$	0.17	lb/ton	1.10E-02	4.83E-02
System TBD - Additive Mixing Tank											
TBD	Additive 8 to Mixing Tank	24	8760	0.00	10.6	additive production units	PM	3.14	lb/ton	2.10E-03	9.21E-03
							PM_{10}	1.10	lb/ton	7.36E-04	3.22E-03
							$PM_{2.5}$	0.17	lb/ton	1.12E-04	4.89E-04
System 20 - Water Recycling Plant Additive Mixing Tank											
S2.041	Powder to Water Reagent 1 Makeup Mixing Tank	24	8760	0.018	157.7	additive production units	PM	3.14	lb/ton	3.12E-02	1.36E-01
							PM_{10}	1.10	lb/ton	1.09E-02	4.78E-02
							$PM_{2.5}$	0.17	lb/ton	1.65E-03	7.24E-03
System 21 - Water Recycling Plant Additive Mixing Tank											
S2.042	Powder to Water Reagent 2 Makeup Mixing Tank	24	8760	0.018	157.7	additive production units	PM	3.14	lb/ton	3.12E-02	1.36E-01
							PM_{10}	1.10	lb/ton	1.09E-02	4.78E-02
							$PM_{2.5}$	0.17	lb/ton	1.65E-03	7.24E-03
System 22 - Water Recycling Plant Additive Mixing Tank											
S2.043	Powder to Water Reagent 3 Makeup Mixing Tank	24	8760	0.020	175.2	additive production units	PM	3.14	lb/ton	3.46E-02	1.52E-01
							PM_{10}	1.10	lb/ton	1.21E-02	5.31E-02
							$PM_{2.5}$	0.17	lb/ton	1.84E-03	8.05E-03

Note: AP-42 Table 11.12-2 cement-silo unloading factors were used as a conservative surrogate for additive powder loading to mixing tanks because both involve pneumatic transfer of dry powders, and actual emissions from enclosed tank loading are expected to be lower.

[ ] = **Revised in September 2026 Revision**

Buffing Dust Collector

Unit No.	Unit Description	Operating Hours		Controls		Emissions					
		Daily	Annual	Type	Dry Volume Flow Rate	Pollutant	Factor	Unit	Safety Factor	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System 23 - Buffing Dust Collector											
S2.044	Plating Machine 1 Buffing Process	24	8,760	Buffing Dust Collector	4,350	PM	0.004	gr/dscf	1.35	0.20	0.88
						PM_{10}				0.20	0.88
						$PM_{2.5}$				0.20	0.88

= **Revised in September 2026 Revision**

Feed Fume Scrubber #1

Unit No.	Unit Description	Operating Hours		Public Throughput			Controls			Emissions						
		Daily	Annual	Hourly	Annual	Units	Type	Control Efficiency	Flow Rate (m3/min)	Pollutant	Factor	Unit	SO2 Conversion Rate	Safety Factor	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System 26 - Feed Fume Scrubber #1																
S2.048	Dissolution Tank 1	24	8760	0.066	578	production unit	Fume Scrubber	99.90%	2.49	$PM/PM_{10}/PM_{2.5}$	1010	mg/m3	N/A	200	0.07	0.29
S2.049	Plating Machine 1									MHAP (Nickel)	1010	mg/m3	N/A	200	0.07	0.291
										H2SO4	202	mg/m3	N/A	100	0.007	0.029
S2.184	Water Recycling Surge Tank			0.012	105	production unit	N/A	N/A	N/A	SO2	N/A	N/A	0.033%	10	4.33E-02	1.90E-01
S2.185	Water Recycling Feed Tank															
S2.186	Reaction Tank 1															
S2.187	Reaction Tank 2															
S2.188	Water Reagent 1 Makeup Mixing Tank to Reaction Tank 1															
S2.189	Water Reagent 2 Makeup Mixing Tank to Reaction Tank 1															
S2.190	Water Reagent 1 Makeup Mixing Tank to Reaction Tank 1															

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SO2 Conversion Calculations	
Molar Mass of NaHSO3 (g/mol)	104.06
g NaHSO3/100 L H2O	6,000
Moles NaHSO3 added	57.66
Molar Concentration of NaHSO3	0.58
pKa Value of NaHSO3:	6.97
ka:	1.07E-07
Moles/L of SO2	1.89E-04
Moles of SO2 if all NaH2SO3 precipitates	1.89E-02
Percent Conversion to SO2	0.033%

$$pKa = 6.97$$

$$Ka = 10^{-6.97} = 1.0715 \times 10^{-7}$$

$$Ka = 1.0715\ x\ 10^{-7} = \frac{[Na_2SO_4][SO_2]}{[NaHSO_3]^2} = \frac{[x][x]}{[0.5765 - 2x]^2}$$

$$x = 0.000188615$$

Notes:

Based on the pKa value for NaHSO3, which is a constant, the molar concentration of SO2 that will results from NaH2SO3 precipitating was calculated using the equation above.

Calcination Emission Calculations:

Source testing from April 2024 was utilized to develop emission factors to calculate projected emissions from the RC-01 operations at the proposed operational rate of 6 metric tons/hr. Biodiesel combustion emissions associated with the Thermal Oxidizer burner are incorporated into these source testing derived calculations. The calcination operation air pollution control train will be comprised of a TO, 4 baghouses, and a series of 2 wet scrubbers.

Reactor Unit (IN: Conveyor 01, Conveyor 02, and Coarse Shreds Conveyor; OUT: Conveyor 3)															
Operational Parameters	Confidential Throughput								Normalized Throughput Conversion						
	Hours of Operation	24	hr/day	8760	hr/yr				500	kg Battery Material/Converter Production Unit	12	Converter Production Units/Day	105120	Converter Production Units/Year	
	Throughput	6000	kg/hr	52,560,000	kg/yr										
April 2024 Source Testing Processing Data[7]					Source Test Derived Emission Factor (lb pollutant/kg material processed)				Projected Emission						
Source Test Run	Run 1	Run 2	Run 3	Max	Run 1	Run 2	Run 3	Max[3]							
PM, MHAP, Gaseous Testing Mass Feed (kg)[1]	2375	2309	1910												
Dioxins/Furans/HF/HCl Mass Feed (kg)[2]	1641	695	1296												
Historical Source Testing Emission Rates					Source Testing Derived Emission Factors				Calculated Emission Rate[3]		Removal Efficiency	Safety Factor	Requested Permit Emission Rate		Notes
Pollutants	lb/hr	lb/hr	lb/hr	lb/hr	lb/kg	lb/kg	lb/kg	lb/kg	lb/hr	ton/yr			lb/hr	ton/yr	
PM[1]	0.422	0.616	0.346	0.616	1.78E-04	2.67E-04	1.81E-04	2.67E-04	1.60	7.01	0%	1.535	2.46	10.76	Based on April 2024 source testing
HF[2]	0.00493	0.00575	0.00461	0.00575	3.00E-06	8.27E-06	3.56E-06	8.27E-06	0.050	0.22	21%	6	0.24	1.04	Based on April 2024 source testing
HCl[2]	0.0669	0.096	0.0617	0.096	4.08E-05	1.38E-04	4.76E-05	1.38E-04	0.83	3.63	0%	1	0.83	3.63	Based on April 2024 source testing
Dioxin & Furan[2]	4.49E-08	4.81E-09	8.80E-10	4.49E-08	2.74E-11	6.92E-12	6.79E-13	2.74E-11	1.64E-07	0.00	0%	5400	8.87E-04	3.88E-03	Based on April 2024 source testing
CO[1]	0.61	0.65	0.63	0.65	2.57E-04	2.82E-04	3.30E-04	3.30E-04	1.98	8.67	0%	2	3.96	17.34	Based on April 2024 source testing
NOx[1]	4.81	4.74	2.83	4.81	2.03E-03	2.05E-03	1.48E-03	2.05E-03	12.32	53.95	0%	1.145	14.10	61.77	Based on April 2024 source testing
VOC[1]	0.03	0.11	0.22	0	1.26E-05	4.76E-05	1.15E-04	0.0001	0.69	3.03	0%	10.16	7.02	30.75	Based on April 2024 source testing
SO2[1]	0.4	0	0	0	1.68E-04	0.00E+00	0.00E+00	0.0002	1.01	4.43	0%	4.45	4.50	19.70	Based on April 2024 source testing
Total MHAP[1]	0.00186	0.000742	0.00105	0.00186	7.83E-07	3.21E-07	5.50E-07	7.83E-07	0.0047	0.02	0%	10	0.05	0.21	Based on April 2024 source testing

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Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage[4]			Emissions						References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Safety Factor	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System 30 - Calcination - Thermal Oxidizer Combustion															
S2.057	Thermal Oxidizer Biodiesel Burner	24	8760	5	43.800	39.07	342,294.47	gallons	PM	Reported in Source Testing Emission Calculation Above					
									PM10						
									PM2.5						
									SO2	0.29	lb/MMBtu	Reported in Source Testing Emission Calculation Above			AP-42 Section 3.3, Table 3.3-1 (Diesel Fuel)
									NOx[5]	5.10	lb/MMBtu	Reported in Source Testing Emission Calculation Above			Emission factor taken from AP-42 Section 3.3, Table 3.3-1 (Diesel Fuel), then adjusted based on EPA420-P-02-001 (2002), Table V.B-4
									CO[5]	0.84	lb/MMBtu	Reported in Source Testing Emission Calculation Above			
									VOC[5]	0.22	lb/MMBtu	Reported in Source Testing Emission Calculation Above			
									CO2[6]	146.22	lb/MMBtu	1.00	731.10	3202.22	Emission factor taken from AP-42 Section 3.3, Table 3.3-1 (Diesel Fuel) then adjusted based on EPA420-P-02-001 (2002), Table IV.A.3-1

Notes

[1] Mass Feed from historical source testing was used to calculate lb/kg emission factor for PM, MHAP, CO, NOx, VOC, SO2 emissions

[2] Mass Feed from historical source testing was used to calculate lb/kg emission factor for HF, HCl, and dioxins/furans emissions

[3] Maximum emission rate from source testing was used to derive maximum emission factor that was used in calculating emission rate with anticipated throughput (6,000 kg/hr). From this value, a safety factor or removal efficiency was applied to yield the "Requested Permit Emission Rate". The calculation for the PM emission factor (pre-safety factor) is as follows: (1.01E-04 lb/kg Material Processed) * (6,000 kg/hr Projected Throughput) = 0.61 lb/hr

[4] Calculated based on 127,960 Btu/gal based on US Department of Energy information provided by NDEP BAPC on 10/26/22. https://afdc.energy.gov/fuels/biodiesel_basics.html

[5] Calculated using emission factor from AP-42 Section 3.3, Table 3.3-1 (Diesel Fuel) and adjusting based on equation and values given in EPA420-P-02-001 (2002), Table V.B-4. For NOx, the calculation for percent change is as follows: % change = [e^(0.0014502*100)-1] * 100% = 15.606%. Taking the AP-42 emission factor of 4.41 lb/MMBtu and applying this percent change, the new emission factor is 5.10 lb/MMBtu

[6] Calculated using emission factor from AP-42 Section 3.3, Table 3.3-1 (Diesel Fuel) and adjusting based on the carbon content of biodiesel compared to conventional diesel provided in EPA420-P-02-001 (2002), Table IV.A.3-1. The calculation for CO2 is as follows: (164 lb/MMBtu) * (77.3/86.7) = 146.22 lb/MMBtu.

Calcination - Material Handling

Unit No.	Unit Description	Operating Hours		Controls		Emissions										References
		Daily	Annual	Type	Flow Rate (DSCFM)	Pollutant	Run 1 gr/dscf	Run 2 gr/dscf	Run 3 gr/dscf	Max gr/dscf	Factor	Unit	Safety Factor	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System 31 - Calcination - Material Handling																
S2.155	Material to Unloader 01	24	8760	Baghouse	23,600	PM/PM10/PM2.5	-	-	-	-	0.002	gr/dscf	1	0.40	1.77	Anticipated grain loading and baghouse exhaust flow rate
S2.156	Unloader 01 to Conveyor 04															
TBD	Cyclone to Hopper 01 or Conveyor 03 via Fully Enclosed Screw 01															
TBD	Hopper 01 to Hopper 02															
S2.157	Feeder 01 (IN: Conveyor 03 or Conveyor 04; OUT: Size Reduction Unit 01)															
S2.058	Size Reduction Unit 01 (IN: Feeder 01; OUT: Feeder 02)															
S2.158	Feeder 02 (IN: Size Reduction Unit 01; OUT: Conveyor 05)															
S2.059	Size Reduction Unit 02 (IN: Conveyor 05; OUT: Hopper 03 or Size Reduction Unit 03 via Fully Enclosed Screw 02)					MHAP	3.79E-06	5.09E-06	2.96E-06	5.09E-06	5.09E-06	gr/dscf	10	1.03E-02	4.51E-02	April 2024 Source Testing
S2.061	Size Reduction Unit 03 (IN: Size Reduction Unit 02 via Fully Enclosed Screw 02; OUT: Screener 01 via Fully Enclosed Screw 03 and Screw 04)															
S2.060	Screener 01 (IN: Size Reduction Unit 03 via Fully Enclosed Screw 03 and Screw 04; OUT: Separator 01 or Bagging Station 01 via Fully Enclosed Sampler 01 and Screw 05)															
S2.063	Separator 01 to Bagging Station 02 via Fully Enclosed Screw 06															
S2.064	Separator 01 to Bagging Station 03 via Fully Enclosed Screw 07															
S2.065	Separator 01 to Bagging Station 04 via Fully Enclosed Screw 08															
TBD	Separator 01 to Bagging Station 05 via Fully Enclosed Screw 09															
S2.159	Screener 02 (IN: Separator 01 via Fully Enclosed Screw 09; OUT: Compaction Machine via Fully Enclosed Screw 10 or Bagging Station 07 via Fully Enclosed Screw 11)															
S2.192	Compaction Machine to Bagging Station 06															
TBD	Dust Collector Fines to Bagging Station 08 via Fully Enclosed Screw 12 or Bagging Station 01 via Fully Enclosed Screw 05															

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Calcination - Feed Preparation

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions				
		Daily	Annual	Normalized			Type	Flow Rate (ACFM)	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
				kg/hr	kg/year	Material Type							
System 46 - Calcination - Feed Preparation													
S2.160	Material to Tipper A	24	8760	12	105,120.0	Battery Production Units	Baghouse	18,000	PM	0.002	gr/dscf	0.31	1.35
S2.161	Tipper A to Feeder A								PM10			0.31	1.35
S2.162	Feeder A to Conveyor 01								PM2.5			0.31	1.35
S2.163	Material to Tipper B								MHAP	0.002	gr/dscf	0.31	1.35
S2.164	Tipper B to Feeder B												
S2.165	Feeder B to Conveyor 01			7.92	69,379.20	Packaging Material Production Units							
TBD	Material to Tipper C												
TBD	Tipper C to Feeder C												
TBD	Feeder C to Conveyor 01												

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Nickel Foil Evaporator

Unit No.	Unit Description	Operating Hours		Controls					Emissions			
		Daily	Annual	Type	Flow Rate		Solution Contained in Exhaust Stack		Pollutant	Percent Composition	Hourly Rate	Yearly Rate
					Amount	Unit	Amount	Unit			(lbs/hr)	(tons/yr)
System 50 - Vessel 3												
S2.191	Vessel 3	24	8,760	Air Scrubber	84.94	m^3/min	0.03712	mg/m^3	Nickel Sulfate ($PM/PM_{10}/PM_{2.5}$/MHAP)	9%	3.75E-05	1.64E-04
									H2SO4	9%	3.75E-05	1.64E-04

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Material Fabrication (Page 1 of 2)

Unit No.	Unit Description	Operating Hours		Public Throughput			Controls					Emissions			
		Daily	Annual	Hourly	Annual	Units	Type	Dry Volume Flow Rate	Unit	Grain Loading	Unit	Pollutant	Percent Composition	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System 51 - Material Fabrication															
S2.206	Material Fabrication	24	3500	0.0091	31.85	production units	Dust Collector	20,000	dscfm	0.002	gr/dscf	PM/PM10/PM2.5	N/A	0.34	0.60
												MHAP	0.58%	0.0020	0.0035
							N/A	N/A	N/A	N/A	N/A	CO	N/A	5.00	8.75

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Material Fabrication (Page 2 of 2)

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Unit	Pollutant	Emission Factor[2]	Units	Hourly Emissions (lb/hr)	Annual Emissions (ton/yr)
System 51 - Material Fabrication											
S2.206	Material Fabrication	24	3500	0.017	59.5	kerosene production units	PM	2	lb/1000 gal	0.017	0.03
							PM10	1.08	lb/1000 gal	0.009	0.02
							PM2.5	0.83	lb/1000 gal	0.007	0.01
							NO_x	20	lb/1000 gal	0.170	0.30
							CO	5	lb/1000 gal	0.043	0.074
							SO_2[1]	42.6	lb/1000 gal	0.362	0.63
							VOC	0.34	lb/1000 gal	0.090	0.16

Notes

[1] Emissions based on sulfur content of 0.3%

[2] Per AP-42 Section 1.3, Kerosene (No. 1) is considered a distillate oil. Where kerosene-specific emission factors were not avaiable, distillate oil emission factors were utilized. Please note, these emission factors are likely conservative.

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions					
		Daily	Annual	Hourly	Annual	Unit	Pollutant	Emission Factor	GWP Multiplier	Units	Hourly Emissions (lb/hr)	Annual Emissions (ton/yr)
System 51 - Material Fabrication												
S2.206	Material Fabrication	24	3500	0.017	59.5	kerosene production units	CO_2	21500	1	lb/1000 gal	182.750	319.81
							CH_4	0.216	25	lb/1000 gal	0.046	0.08
							N_2O	0.26	298	lb/1000 gal	0.659	1.15

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions				
		Daily	Annual	Hourly	Annual	Unit	Pollutant	Emission Factor	Units	Hourly Emissions (lb/hr)	Annual Emissions (ton/yr)
System 51 - Material Fabrication											
S2.206	Material Fabrication	24	3500	0.017	59.5	kerosene production units	Benzene	2.14E-04	lb/1000 gal	1.82E-06	3.18E-06
							Ethylbenzene	6.36E-05	lb/1000 gal	5.41E-07	9.46E-07
							Formaldehyde	3.30E-02	lb/1000 gal	2.81E-04	4.91E-04
							Naphthalene	1.13E-03	lb/1000 gal	9.61E-06	1.68E-05
							1,1,1-Trichloroethane	2.36E-04	lb/1000 gal	2.01E-06	3.51E-06
							Toluene	6.20E-03	lb/1000 gal	5.27E-05	9.22E-05
							Xylene	1.09E-04	lb/1000 gal	9.27E-07	1.62E-06
							Antimony	5.25E-03	lb/1000 gal	4.46E-05	7.81E-05
							Arsenic	1.32E-03	lb/1000 gal	1.12E-05	1.96E-05
							Beryllium	2.78E-05	lb/1000 gal	2.36E-07	4.14E-07
							Cadmium	3.98E-04	lb/1000 gal	3.38E-06	5.92E-06
							Chromium	8.45E-04	lb/1000 gal	7.18E-06	1.26E-05
							Chromium VI	2.48E-04	lb/1000 gal	2.11E-06	3.69E-06
							Cobalt	6.02E-03	lb/1000 gal	5.12E-05	8.95E-05
							Lead	1.51E-03	lb/1000 gal	1.28E-05	2.25E-05
							Manganese	3.00E-03	lb/1000 gal	2.55E-05	4.46E-05
							Mercury	1.13E-04	lb/1000 gal	9.61E-07	1.68E-06
							Nickel	8.45E-02	lb/1000 gal	7.18E-04	1.26E-03
							Selenium	6.83E-04	lb/1000 gal	5.81E-06	1.02E-05
									Total	**1.23E-03**	**2.15E-03**

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Carbothermal - Powder Dust Collector

Unit No.	Unit Description	Operating Hours		Controls		Public Throughput			Emissions				
		Daily	Annual	Type	Flow Rate	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System 52 - Demo Plant - Powder Dust Collector													
S2.207	Unloading Station 1 to Mixer 1	24	8760	Dust Collector (16230-VAC-001)	222	0.14	1217.64	Production Units	PM/PM10/ PM2.5/MHAP	0.007	gr/dscf	0.013	0.06
~~S2.208~~	~~Unloading Station 2 to Screw Conveyor 2~~					~~0.14~~	~~1217.64~~	~~Production Units~~					
S2.209	Mixer 1 to Feed Conveyor					0.14	1217.64	Production Units					
~~S2.210~~	~~Conveyor 1 to Feeder 1~~			Dust Collector (16230-VAC-003)	222	~~0.14~~	~~1217.64~~	~~Production Units~~	PM/PM10/ PM2.5/MHAP	0.007	gr/dscf	0.013	0.06
S2.211	Mill 1 and Associated Transfers (IN: Bin 1 and Bin 2; OUT: Screen Conveyor)					0.14	1217.64	Production Units					
S2.212	Screen 1 and Associated Transfers (IN: Screen Conveyor; OUT: Bagging Station 1					0.14	1217.64	Production Units					
~~S2.213~~	~~Screw Conveyor 4 to Bagging Station 1~~					~~0.14~~	~~1217.64~~	~~Production Units~~					
~~S2.214~~	~~Silo 1 to Screw Conveyor 5~~					~~0.14~~	~~1217.64~~	~~Production Units~~					
~~S2.215~~	~~Unloading Station 3 to Screw Conveyor 6~~					~~0.14~~	~~1217.64~~	~~Production Units~~					
												Total	**0.027**	**0.12**

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Carbothermal - Rotary Kiln

Process Emissions

Unit No.	Unit Description	Operating Hours		Public Throughput			Emissions							
										Controls		Safety Factor	Hourly Rate	Yearly Rate
		Daily	Annual	Hourly	Annual	Units	Pollutant	Loading Rate	Unit	Type	Control Efficiency		(lbs/hr)	(tons/yr)
System 53 - Demo Plant - Reactor Unit 02														
TBD	Feed Hopper 1 to Feed Hopper 2	24	8760	0.139	1217.64	Production Units	PM/PM10/PM2.5/MHAP	6.00	kg/hr	Thermal Oxidizer, Dust Collector, Scrubber	95%	1	1.36E-01	0.60
TBD	Feed Hopper 2 to Screw Conveyor 1			0.139	1217.64	Production Units								
S2.215	Reactor Unit 02 (IN: Screw Conveyor 1; OUT: Bin 1 or Bin 2)			0.3	2628	Converter Production Units	CO	8.49	kg/hr		88%	1	0.4621	2.02
							HF	1.08	kg/hr		95%	1	0.02	0.11
							SO2	-	-		N/A	1	0.013	0.06
							NOx [2]	-	-		N/A	1	0.22	0.98
							VOC [2]	-	-		N/A	1	0.009	0.04
							CO2 [3]	-	-		N/A	1	7.18	31.43

Thermal Oxidizer Combustion

Unit No.	Unit Description	Operating Hours		Public Throughput			Heat Rating			Emissions				
													Hourly Rate	Yearly Rate
		Daily	Annual	Hourly	Annual	Units	Hourly	Annual	Units	Pollutant	Factor	Unit	(lbs/hr)	(tons/yr)
System 53 - Demo Plant - Reactor Unit 02														
S2.216	Thermal Oxidizer Biodiesel Burner	24	8760	0.001	5.99	Biodiesel Production Units	0.04	383.34	MMBtu	PM/PM10/PM2.5/MHAP	Reported in Calculation Above			
										SO2	0.29	lb/MMBtu	0.013	0.06
										NOx [2]	5.10	lb/MMBtu	0.22	0.98
										CO	Reported in Calculation Above			
										VOC [2]	0.22	lb/MMBtu	0.01	0.04
										CO2 [3]	164	lb/MMBtu	7.18	31.43

Thermal Oxidizer Combustion - HAP Emissions

Unit No.	Unit Description	Operating Hours		Public Throughput			Heat Rating			Emissions				
													Hourly Rate	Yearly Rate
		Daily	Annual	Hourly	Annual	Units	Hourly	Annual	Units	Pollutant	Factor	Unit	(lbs/hr)	(tons/yr)
System 53 - Demo Plant - Reactor Unit 02														
TBD	Thermal Oxidizer Biodiesel Burner	24	8760	0.001	5.99	Biodiesel Production Units	0.04	383.34	MMBtu	Benzene	9.33E-04	lb/MMBtu	4.08E-05	1.79E-04
										Toluene	4.09E-04	lb/MMBtu	1.79E-05	7.84E-05
										Xylenes	2.85E-04	lb/MMBtu	1.25E-05	5.46E-05
										Propylene	2.58E-03	lb/MMBtu	1.13E-04	4.95E-04
										1,3-Butadiene	3.91E-05	lb/MMBtu	1.71E-06	7.49E-06
										Formaldehyde	1.18E-03	lb/MMBtu	5.16E-05	2.26E-04
										Acetaldehyde	7.67E-04	lb/MMBtu	3.36E-05	1.47E-04
										Acrolein	9.25E-05	lb/MMBtu	4.05E-06	1.77E-05
										Naphthalene	8.48E-05	lb/MMBtu	3.71E-06	1.63E-05
												Total	**2.79E-04**	**1.22E-03**

= **Revised in September 2026 Revision**

[1] Calculated based on 127,960 Btu/gal based on US Department of Energy information provided by NDEP BAPC on 10/26/22. https://afdc.energy.gov/fuels/biodiesel_basics.html

[2] Calculated using emission factor from AP-42 Section 3.3; Table 3.3-1 (Diesel Fuel) and adjusting based on equation and values given in EPA420-P-02-001 (2002), Table V.B-4. For NOx, the calculation for percent change is as follows: % change = [e^(0.0014502*100)-1] * 100% = 15.606%. Taking the AP-42 emission factor of 4.41 lb/MM

Propane Combustion Calculations (Page 1 of 3)

Permit ID	Unit Description	Operating Hours		Heat Input	Fuel Consumption		PM/PM10/PM2.5 Emissions				
		hr/day	hr/yr	MMBtu/hr	gal/hr	gal/yr	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
Insignificant Activities											
TBD	Thermal Oxidizer Propane Burner (0.4 MMBtu/hr)	24	8,760	0.40	4.37	38,295	**Total PM**	0.0077	lb/MMBtu	3.06E-03	0.01
							PM_{10}	0.0077	lb/MMBtu	3.06E-03	0.01
							$PM_{2.5}$	0.0077	lb/MMBtu	3.06E-03	0.01
							SO_2	0.0006	lb/MMBtu	2.36E-04	0.001
							CO	0.082	lb/MMBtu	3.28E-02	0.14
							NO_x	0.14	lb/MMBtu	5.68E-02	0.25
							VOC	0.011	lb/MMBtu	4.37E-03	0.02

NOTES:

[a]Based on emission factors for Liquefied Petroleum Gas Combustion in AP-42 Section 1.5 Table 1.5-1, and uses heat contents of 91.5 x 10^6 Btu/10^3 gallon for propane.

[b]Based on national sulfur fuel content for LPG of 0.54 grains/100 ft^3 from *'A National Methodology and Emission Inventory for Residential Fuel Combustion'*.

[ ] = **Added in September 2026 Revision**

Propane Combustion Emission Calculations (Page 2 of 3)

Unit No.	Unit Description	Operating Hours		Heat Rating		Emissions					Reference
		Daily	Annual	Hourly	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
Insignificant Activities											
TBD	Thermal Oxidizer Propane Burner (0.4 MMBtu/hr)	24	8,760	0.4	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	7.38E-04	3.23E-03	AP-42 Section 1.4, Table 1.4-3
						Metal HAPs	5.45E-06		2.18E-06	9.55E-06	AP-42 Section 1.4, Table 1.4-4
								Total	**7.40E-04**	**3.24E-03**	

Organic Compound HAPs	Emission Factor (lb/MMBtu)
2-Methylnaphthalene	2.35E-08
3-Methylcholanthrene	1.76E-09
7,12-Dimethylbenz(a)anthracene	1.57E-08
Acenaphthene	1.76E-09
Acenaphthylene	1.76E-09
Anthracene	2.35E-09
Benz(a)anthracene	1.76E-09
Benzene	2.06E-06
Benzo(a)pyrene	1.18E-09
Benzo(b)fluoranthene	1.76E-09
Benzo(g,h,i)perylene	1.18E-09
Benzo(k)fluoranthene	1.76E-09
Chrysene	1.76E-09
Dibenzo(a,h)anthracene	1.18E-09
Dichlorobenzene	1.18E-06
Fluoranthene	2.94E-09
Fluorene	2.75E-09
Formaldehyde	7.35E-05
Hexane	1.76E-03
Indeno(1,2,3-cd)pyrene	1.76E-09
Naphthalene	5.98E-07
Phenanathrene	1.67E-08
Pyrene	4.90E-09
Toluene	3.33E-06
Total	**1.85E-03**

Metal HAPs	Emission Factor (lb/MMBtu)
Arsenic	1.96E-07
Beryllium	1.18E-08
Cadmium	1.08E-06
Chromium	1.37E-06
Cobalt	8.24E-08
Manganese	3.73E-07
Mercury	2.55E-07
Nickel	2.06E-06
Selenium	2.35E-08
Total	**5.45E-06**

Notes:
Emission factors for natural gas combustion (AP-42 Table 3.1-3) utilized to account for potential HAPs from propane combustion.

= **Added in September 2026 Revision**

Propane Combustion Emission Calculations (Page 3 of 3)

Unit No.	Unit Description	Operating Hours		Heat Rating		Fuel Consumption			Emissions						Reference
		Daily	Annual	Hourly	Units	Hourly	Annual	Units	Pollutant	Factor	GWP Multiplier	Unit	Hourly Rate (lb/hr)	Yearly Rate (tons/yr)	
Insignificant Activities															
TBD	Thermal Oxidizer Propane Burner (0.4 MMBtu/hr)	24	8,760	0.4	MMBtu	1,470.6	12,882,352.9	scf	CO_2	117.65	1	lb/MMBtu	47.06	206.12	AP-42 Section 1.5, Table 1.5-1
									CH_4	0.0023	25		0.02	0.10	
									N_2O	0.0022	298		0.26	1.13	
												Total	**47.34**	**207.34**	

= **Added in September 2026 Revision**

Carbothermal - Feed Conveyor Dust Collector

Unit No.	Unit Description	Operating Hours		Controls		Public Throughput			Emissions				
		Daily	Annual	Type	Flow Rate	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)
System 54 - Demo Plant - Feed Conveyor Dust Collector													
S2.218	Feed Conveyor to Feed Hopper 1	24	8760	Dust Collector (16230-VAC-002)	222	0.14	1217.64	Production Units	PM/PM10/ PM2.5/MHAP	0.007	gr/dscf	0.013	0.06

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Natural Gas Combustion Emission Calculations Page 1 of 4

Unit No.	Unit Description	Operating Hours		Heat Rating			Fuel Consumption [1]			Emissions					Reference
		Daily	Annual	Hourly	Annual	Units	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System TBD – Building 1 Heaters															
TBD (Formerly IA1 015)	Building 1 Heater #1	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	1.92E-02	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	1.92E-02	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	1.92E-02	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	1.51E-03	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	2.52E-01	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	2.12E-01	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	1.39E-02	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 016)	Building 1 Heater #2	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.0015	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 017)	Building 1 Heater #3	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.002	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 018)	Building 1 Heater #4	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.002	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 019)	Building 1 Heater #5	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.002	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 020)	Building 1 Heater #6	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.002	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 021)	Building 1 Heater #7	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.002	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 022)	Building 1 Heater #8	24	8,760	2.573	11,269.7	MMBtu	2,522.55	11,048,764.71	scf	PM	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.019	0.042	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.002	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.252	0.552	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.212	0.464	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.014	0.030	AP-42 Section 1.4, Table 1.4-2

Natural Gas Combustion Emission Calculations Page 2 of 4

Unit No.	Unit Description	Operating Hours		Heat Rating			Fuel Consumption [1]			Emissions					Reference
		Daily	Annual	Hourly	Annual	Units	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System TBD – Building 2 Heaters #1-8															
TBD (Formerly IA1 023)	Building 2 Heater #1	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 024)	Building 2 Heater #2	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 025)	Building 2 Heater #3	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 026)	Building 2 Heater #4	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 027)	Building 2 Heater #5	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 028)	Building 2 Heater #6	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 029)	Building 2 Heater #7	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2
TBD (Formerly IA1 030)	Building 2 Heater #8	24	8,760	2.2	9,636.0	MMBtu	2,156.86	9,447,058.82	scf	PM	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										PM10	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.016	0.036	AP-42 Section 1.4, Table 1.4-2
										SO_2	0.6	lb/10^6 scf	0.001	0.003	AP-42 Section 1.4, Table 1.4-2
										NO_X	100.0	lb/10^6 scf	0.216	0.472	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.181	0.397	AP-42 Section 1.4, Table 1.4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.012	0.026	AP-42 Section 1.4, Table 1.4-2

Natural Gas Combustion Emission Calculations Page 3 of 4

Unit No.	Unit Description	Operating Hours		Heat Rating			Fuel Consumption [1]			Emissions					Reference
		Daily	Annual	Hourly	Annual	Units	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System TBD – Building 2 Heaters #9-15															
TBD (Formerly IA1 031)	Building 2 Heater #9	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7 6	lb/10^6 scf	3 41E-03	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7 6	lb/10^6 scf	3 41E-03	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7 6	lb/10^6 scf	3 41E-03	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0 6	lb/10^6 scf	2 69E-04	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	4 49E-02	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	3 77E-02	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5 5	lb/10^6 scf	2 47E-03	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 032)	Building 2 Heater #10	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0 6	lb/10^6 scf	0 000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	0 045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	0 038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5 5	lb/10^6 scf	0 002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 033)	Building 2 Heater #11	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0 6	lb/10^6 scf	0 000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	0 045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	0 038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5 5	lb/10^6 scf	0 002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 034)	Building 2 Heater #12	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0.000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100.0	lb/10^6 scf	0.045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 035)	Building 2 Heater #13	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0.000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100.0	lb/10^6 scf	0.045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 036)	Building 2 Heater #14	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0.000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100.0	lb/10^6 scf	0.045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 037)	Building 2 Heater #15	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0 6	lb/10^6 scf	0 000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	0 045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	0 038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5 5	lb/10^6 scf	0 002	0.005	AP-42 Section 1 4, Table 1 4-2

Natural Gas Combustion Emission Calculations Page 4 of 4

Unit No.	Unit Description	Operating Hours		Heat Rating			Fuel Consumption [1]			Emissions					Reference
		Daily	Annual	Hourly	Annual	Units	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System TBD – Building 2 Heaters #15-22															
TBD (Formerly IA1 038)	Building 2 Heater #16	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7 6	lb/10^6 scf	3 41E-03	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7 6	lb/10^6 scf	3 41E-03	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7 6	lb/10^6 scf	3 41E-03	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0 6	lb/10^6 scf	2 69E-04	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	4 49E-02	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	3 77E-02	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	2 47E-03	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 039)	Building 2 Heater #17	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0 000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	0 045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	0 038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0 002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 040)	Building 2 Heater #18	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0 000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	0 045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	0 038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0 002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 041)	Building 2 Heater #19	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0.000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100.0	lb/10^6 scf	0.045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 042)	Building 2 Heater #20	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0.000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100.0	lb/10^6 scf	0.045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 043)	Building 2 Heater #21	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0.6	lb/10^6 scf	0.000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100.0	lb/10^6 scf	0.045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84.0	lb/10^6 scf	0.038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5.5	lb/10^6 scf	0.002	0.005	AP-42 Section 1 4, Table 1 4-2
TBD (Formerly IA1 044)	Building 2 Heater #22	24	8,760	0 4578	2,005.2	MMBtu	448 82	1,965,847.06	scf	PM	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										PM10	7.6	lb/10^6 scf	0.003	0.007	AP-42 Section 1 4, Table 1 4-2
										$PM_{2.5}$	7 6	lb/10^6 scf	0 003	0.007	AP-42 Section 1 4, Table 1 4-2
										SO_2	0 6	lb/10^6 scf	0 000	0.001	AP-42 Section 1 4, Table 1 4-2
										NO_X	100 0	lb/10^6 scf	0 045	0.098	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										CO	84 0	lb/10^6 scf	0 038	0.083	AP-42 Section 1 4, Table 1 4-1 Small Boilers (Uncontrolled)
										VOC	5 5	lb/10^6 scf	0 002	0.005	AP-42 Section 1 4, Table 1 4-2

Notes:

[1] Fuel consumption calculated from heat rating using heat content of 1,020 btu/scf for natural gas

= **Revised in September 2026 Revision**

Pollutant	lb/hr	ton/year
PM	0 33	0.73
PM10	0 33	0.73
$PM_{2.5}$	0 33	0.73
SO_2	0 03	0.06
NO_X	4 37	9.57
CO	3 67	8.04
VOC	0 24	0.53

Natural Gas Combustion Emission Calculations - GHG Emissions Page 1 of 2

Unit No.	Unit Description	Operating Hours		Heat Rating			Emissions						Reference
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	GWP Multiplier	Unit	Hourly Rate (lbs/hour)	Yearly Rate (tons/yr)	
System TBD – Building 1 Heaters													
TBD (Formerly IA1.015)	Building 1 Heater #1	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.016)	Building 1 Heater #2	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.017)	Building 1 Heater #3	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.018)	Building 1 Heater #4	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.019)	Building 1 Heater #5	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.020)	Building 1 Heater #6	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.021)	Building 1 Heater #7	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
TBD (Formerly IA1.022)	Building 1 Heater #8	24	8,760	2.6	11,269.7	MMBtu	CO_2	117.65	1	lb/MMBtu	302.71	662.93	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.15	0.32	
							N_2O	0.0022	298		1.65	3.62	
System TBD – Building 2 Heaters #1-8													
TBD (Formerly IA1.023)	Building 2 Heater #1	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.024)	Building 2 Heater #2	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.025)	Building 2 Heater #3	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.026)	Building 2 Heater #4	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.027)	Building 2 Heater #5	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.028)	Building 2 Heater #6	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.029)	Building 2 Heater #7	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	
TBD (Formerly IA1.030)	Building 2 Heater #8	24	8,760	2.2	9,636.0	MMBtu	CO_2	117.65	1	lb/MMBtu	258.82	566.82	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.12	0.27	
							N_2O	0.0022	298		1.41	3.10	

Natural Gas Combustion Emission Calculations - GHG Emissions Page 2 of 2

Unit No.	Unit Description	Operating Hours		Heat Rating			Emissions						Reference
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	GWP Multiplier	Unit	Hourly Rate (lbs/hour)	Yearly Rate (tons/yr)	
System TBD – Building 2 Heaters #9-15													
TBD (Formerly IA1.031)	Building 2 Heater #9	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.032)	Building 2 Heater #10	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.033)	Building 2 Heater #11	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.034)	Building 2 Heater #12	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.035)	Building 2 Heater #13	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.036)	Building 2 Heater #14	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.037)	Building 2 Heater #15	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.038)	Building 2 Heater #16	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.039)	Building 2 Heater #17	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.040)	Building 2 Heater #18	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.041)	Building 2 Heater #19	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.042)	Building 2 Heater #20	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.043)	Building 2 Heater #21	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
TBD (Formerly IA1.044)	Building 2 Heater #22	24	8,760	0.5	2,005.2	MMBtu	CO_2	117.65	1	lb/MMBtu	53.86	117.95	AP-42 Section 1.5, Table 1.5-1
							CH_4	0.0023	25		0.03	0.06	
							N_2O	0.0022	298		0.29	0.64	
										Total	**5,277.43**	**11,557.58**	

= **Revised in September 2026 Revision**

Natural Gas Combustion Emission Calculations - HAP Emissions

Unit No.	Unit Description	Operating Hours		Heat Rating			Emissions					Reference
		Daily	Annual	Hourly	Annual	Units	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System TBD – Building 1 Heaters												
TBD (Formerly IA1 015)	Building 1 Heater #1	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 016)	Building 1 Heater #2	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 017)	Building 1 Heater #3	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 018)	Building 1 Heater #4	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 019)	Building 1 Heater #5	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 020)	Building 1 Heater #6	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 021)	Building 1 Heater #7	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 022)	Building 1 Heater #8	24	8,760	2 6	11,269.7	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 75E-03	1.04E-02	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 40E-05	3.07E-05	AP-42 Section 1 4, Table 1 4-4
System TBD – Building 2 Heaters #1-8												
TBD (Formerly IA1 023)	Building 2 Heater #1	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 024)	Building 2 Heater #2	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	4 06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		1 20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 025)	Building 2 Heater #3	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	4.06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		1.20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 026)	Building 2 Heater #4	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	4.06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		1.20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 027)	Building 2 Heater #5	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	4.06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		1.20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 028)	Building 2 Heater #6	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	4.06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		1.20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 029)	Building 2 Heater #7	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	4.06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		1.20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 030)	Building 2 Heater #8	24	8,760	2 2	9,636.0	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	4.06E-03	8.89E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		1.20E-05	2.63E-05	AP-42 Section 1 4, Table 1 4-4
System TBD – Building 2 Heaters #9-15												
TBD (Formerly IA1 031)	Building 2 Heater #9	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	8.45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		2.50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 032)	Building 2 Heater #10	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	8.45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		2.50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 033)	Building 2 Heater #11	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	8.45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		2.50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 034)	Building 2 Heater #12	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1.85E-03	lb/MMBtu	8.45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5.45E-06		2.50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 035)	Building 2 Heater #13	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 036)	Building 2 Heater #14	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 037)	Building 2 Heater #15	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 038)	Building 2 Heater #16	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 039)	Building 2 Heater #17	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 040)	Building 2 Heater #18	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 041)	Building 2 Heater #19	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 042)	Building 2 Heater #20	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 043)	Building 2 Heater #21	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4
TBD (Formerly IA1 044)	Building 2 Heater #22	24	8,760	0 46	2,005.2	MMBtu	Organic Compound HAPs	1 85E-03	lb/MMBtu	8 45E-04	1.85E-03	AP-42 Section 1 4, Table 1 4-3
							Metal HAPs	5 45E-06		2 50E-06	5.47E-06	AP-42 Section 1 4, Table 1 4-4

= Revised in September 2026 Revision

Total	lb/hr	ton/year
HAPs	8 25E-02	1 81E-01

Organic Compound HAPs	Emission Factor (lb/MMBtu)
2-Methylnaphthalene	2 35E-08
3-Methylcholanthrene	1 76E-09
7,12-Dimethylbenz(a)anthracene	1 57E-08
Acenaphthene	1 76E-09
Acenaphthylene	1 76E-09
Anthracene	2 35E-09
Benz(a)anthracene	1 76E-09
Benzene	2 06E-06
Benzo(a)pyrene	1 18E-09
Benzo(b)fluoranthene	1 76E-09
Benzo(g,h,i)perylene	1 18E-09
Benzo(k)fluoranthene	1 76E-09
Chrysene	1 76E-09
Dibenzo(a,h)anthracene	1 18E-09
Dichlorobenzene	1 18E-06
Fluoranthene	2 94E-09
Fluorene	2 75E-09
Formaldehyde	7 35E-05
Hexane	1 76E-03
Indeno(1,2,3-cd)pyrene	1 76E-09
Naphthalene	5 98E-07
Phenanathrene	1 67E-08
Pyrene	4 90E-09
Toluene	3 33E-06
Total	**1.85E-03**

Metal HAPs	Emission Factor (lb/MMBtu)
Arsenic	1 96E-07
Beryllium	1 18E-08
Cadmium	1 08E-06
Chromium	1 37E-06
Cobalt	8 24E-08
Manganese	3 73E-07
Mercury	2 55E-07
Nickel	2 06E-06
Selenium	2 35E-08
Total	**5.45E-06**

SURFACE AREA DISTURBANCE FORM

1. Total Acres of the Facility Site: 263
2. Total Acres Disturbed: ~131
3. Add Surface Area Disturbance location as Township(s), Range(s) and Section
   T 19 N, R 23 E, Sections 19, 20 & 30
4. NAC 445B.22037 requires fugitive dust to be controlled (regardless of the size or amount of acreage disturbed), and requires an ongoing program, using best practical methods, to prevent particulate matter from becoming airborne. All activities which have the potential to adversely affect the local air quality must implement all appropriate measures to limit controllable emissions. Appropriate measures for dust control may consist of a phased approach to acreage disturbance rather than disturbing the entire area all at once; using wet suppression through such application methods as water trucks or water spray systems to control wind-blown dust; the application of soil binding agents or chemical surfactant to roadways and areas of disturbed soil; as well as the use of wind-break or wind limiting fencing designed to limit wind erosion soils.
5. If the Surface Area Disturbance is greater than 5 acres, please check each box that applies for Best Management Practices (BMPs) used for controlling dust on project's disturbed areas:
   - ☒ Water trucks
   - ☒ Graveling/paving of roadway storage areas and staging areas
   - ☒ Dust palliatives
   - ☒ Posting and limiting vehicle speeds to 10-15 miles per hour
   - ☐ Ceasing operations during high wind events
   - ☒ Fencing or berming to prevent unauthorized access to disturbed areas
   - ☒ Application of water sprays on material storage piles on a regular basis
   - ☒ Covering material storage piles with tarpaulin or geo-textiles; tenting
   - ☒ Use of overhead water spray racks or water hoses
   - ☒ Track-out controls (graveled entranced, exit area, and street sweeping)
   - ☐ Landscape preservation and impact avoidance
   - ☐ Wind fence
   - ☒ Pre-watering of areas to be disturbed (including all unpaved onsite roads and staging areas)
   - ☒ Inform all subcontractors (including truck drivers) of their responsibilities for the control of fugitive dust while they are on the project site
   - ☒ Training of equipment operators to recognize fugitive dust generation and having the authority to shut down operations until water truck arrives and sprays water on the disturbed areas
   - ☐ Other Applicable BMPs: N/A
   - ☐ Other Applicable BMPs: N/A
   - ☒ If using water trucks, list how many water trucks are used and their capacity in gallons: 1 truck with a capacity of 4,000 gallons

REDWOOD MATERIALS

NARRATIVE DESCRIPTION

Class II Air Quality Operating Permit Revision Application

Revision 11

September 2026

TABLE OF CONTENTS

1. INTRODUCTION 3
1.1 Requested Revisions 3
2. FACILITY PROCESSES 3
3. NICKEL FOIL PROCESSING – SYSTEMS 15-19, 23-26 (REVISED SEPTEMBER 2026) 3
3.1 Pilot Operations 3
4. BATTERY MATERIALS CALCINATION RECYCLING ACTIVITIES 4
4.1 Feed Preparation – System 46 – REVISED SEPTEMBER 2026 4
4.2 Calcination 2.0 – System 30 & 34 – REVISED SEPTEMBER 2026 4
4.3 Mechanical Separation 4 (MS4) – REVISED SEPTEMBER 2026 4
5. KILN FABRICATION ACTIVITIES – SYSTEM 51 – REVISED SEPTEMBER 2026 .. 4
6. CARBOTHERMAL OPERATIONS (DEMO PLANT) – SYSTEM 52-58 – REVISED SEPTEMBER 2026 5
7. EMERGENCY DIESEL GENERATORS – SYSTEM 27-28, 32, 43, 89 5
8. NATURAL GAS HEATERS – SYSTEM TBD – REVISED SEPTEMBER 2026 5
9. WET SHRED – SYSTEM TBD – REVISED SEPTEMBER 2026 5
9.1 Wet Shred – Commercial 6
9.2 Wet Shred – Pilot 1 6
9.3 Wet Shred – Pilot 2 6
10. INSIGNIFICANT ACTIVITIES – REVISED SEPTEMBER 2026 6
11. SURFACE AREA DISTURBANCE 7

FIGURES

Figure 1 Project Location Map

1. INTRODUCTION

Redwood Materials, Inc. (Redwood) operates a battery materials production facility to recycle and manufacture battery materials in the Tahoe-Reno Industrial Center in Storey County, Nevada, as shown on Figure 1.

The Redwood Facility will include a series of novel and environmentally sustainable approaches to reprocessing battery materials into cathode materials. The processing techniques, technologies, and equipment used are of proprietary design.

1.1 Requested Revisions

This revision application is being submitted to incorporate and revise the following in the facility Class II permit:

1. Revising the throughput of the additives used and adding to additional additives to Systems 15-19.
2. Revising the exhaust flow rate of the Buffing Dust Collector (System 23).
3. Adjusting the process material of Feed Fume Scrubber (System 26).
4. Revising Vessel 3 (System 50) MHAP emissions.
5. Revising the process flow associated with Calcination – Material Handling (System 31).
6. Removing Cathode Active Materials 1 Processing (System 35-37) and Metal Hydroxide Processing (System 39) from the permit.
7. Adjusting the HF and HCl emissions associated with Calcination - Reactor Unit (System 30).
8. Revising the stack parameters and emissions associated with Calcination – Feed Preparation (System 46).
9. Adding three new units to Calcination – Feed Preparation (System 46).
10. Adjusting the CO and VOC emissions of Material Fabrication (System 51) to account for the most recent source testing results.
11. Revising the Demo Plant – Powder Dust Collector (System 52) to include updated emission units, emissions, throughputs and stack parameters for System 52.
12. Adding and revising the emission units associated with Demo Plant – Reactor Unit 02 (System 53).
13. Adding an additional propane burner to power the thermal oxidizer associated with Reactor Unit 02 (System 53). This burner will be added as an Insignificant Activity.
14. Revising the unit description and stack parameters associated with System 54.
15. Moving the building heaters currently permitted as Insignificant Activities (IA1.014-IA1.043) to permitted units and taking a voluntary limitation on annual fuel usage. Hours of operation will remain the same, but annual fuel consumption will be reduced by half.
16. Incorporating a wet shred process to the permit.

2. FACILITY PROCESSES

3. NICKEL FOIL PROCESSING – SYSTEMS 15-19, 23-26 (REVISED SEPTEMBER 2026)

3.1 Pilot Operations

The Pilot Operations process involves the recovery, purification, and processing of nickel-containing materials into battery-related products for research, development, product qualification, and process optimization purposes. Operations may include material handling, solution processing, purification, electrochemical processing, product finishing, and associated support activities.

The pilot operations are intended to support ongoing research and development efforts and may be operated intermittently depending on project and product qualification requirements.

Both criteria pollutant and hazardous air pollutant emissions are anticipated from these activities. Emissions

are primarily associated with material handling, solution processing, product finishing, and ancillary support operations. Process emissions are controlled by dedicated air pollution control equipment, including scrubbers, particulate filtration systems, and other control devices as applicable. Emissions were calculated using equipment-specific design information, manufacturer data, engineering calculations, and best engineering judgment. For additional information regarding the emission calculation methodologies, please see the detailed emission calculations included herein.

4. BATTERY MATERIALS CALCINATION RECYCLING ACTIVITIES

4.1 Feed Preparation – System 46 – REVISED SEPTEMBER 2026

The Feed Preparation process involves receiving and preparing battery materials for thermal processing. Activities may include unloading, sorting, separation of packaging materials, and transfer of battery materials to downstream recycling operations.

Emissions from feed preparation activities are primarily associated with material handling and the potential generation of particulate matter. These emissions are controlled by a dedicated dust collection system equipped with high-efficiency particulate filtration. For additional information regarding control device and operating parameters, please see the detailed emission calculations included herein.

4.2 Calcination 2.0 – System 30 & 34 – REVISED SEPTEMBER 2026

The Calcination process involves the thermal treatment of battery materials under controlled operating conditions to facilitate material recovery and preparation for downstream processing. Material is conveyed to a reactor system where physical and chemical transformations occur to generate recoverable product streams.

Emissions from calcination activities may include particulate matter, acid gases, combustion byproducts, volatile organic compounds, metal compounds, and other constituents associated with battery materials. Emissions are controlled by a combination of particulate control equipment, thermal oxidation, gas cooling, and wet scrubbing systems. For additional information regarding control device performance and operational parameters, please see the detailed emission calculations included herein.

4.3 Mechanical Separation 4 (MS4) – REVISED SEPTEMBER 2026

The Mechanical Separation process involves the size reduction, screening, segregation, and recovery of materials generated from the calcination process. Operations may include shredding, milling, classification, magnetic separation, material collection, and product packaging activities.

Emissions are primarily associated with particulate matter generated during material handling and size reduction operations. Emissions are controlled by a dedicated dust collection system equipped with high-efficiency filtration. For additional information regarding control device performance and operational parameters, please see the detailed emission calculations included herein.

5. KILN FABRICATION ACTIVITIES – SYSTEM 51 – REVISED SEPTEMBER 2026

The Kiln Fabrication process involves thermal spraying and related fabrication activities used to apply protective or functional coatings to process equipment and components. The operations support maintenance, repair, refurbishment, and fabrication activities performed at the facility.

Emissions associated with the thermal spraying process primarily consist of particulate matter and metal hazardous air pollutants generated during coating application. The process also includes limited fuel combustion associated with equipment operation. Emissions from coating application activities are controlled by a dedicated dust collection system, while combustion emissions are evaluated separately. Operations are intermittent and are limited to a maximum of 3,500 hours per year.

Emission rates for the process are based on equipment-specific information, source testing data, engineering calculations, and best engineering judgment. For additional information regarding emission calculations, source testing results, and operational parameters, please see the detailed emission calculations included herein.

6. CARBOTHERMAL OPERATIONS (DEMO PLANT) – SYSTEM 52-58 – REVISED SEPTEMBER 2026

The Carbothermal Operations Demo Plant is designed to evaluate and demonstrate the processing of recovered battery materials and metal concentrates through carbothermal treatment and associated downstream processing operations. The system supports research, development, and process optimization activities related to battery material recycling and resource recovery.

Operations generally include material handling, blending, thermal processing, milling, screening, classification, and product recovery activities. Processed materials may be further refined or routed to subsequent pilot-scale recovery operations depending on testing objectives.

Emissions associated with the carbothermal operations are primarily related to material handling, thermal processing, and size reduction activities. Emissions are controlled using dedicated air pollution control equipment and particulate control systems as applicable. Emissions were calculated using equipment design information, engineering calculations, vendor data, and best engineering judgment. For additional information regarding equipment configuration, control device performance, and emission calculations, please see the detailed emission calculations included herein..

7. EMERGENCY DIESEL GENERATORS – SYSTEM 27-28, 32, 43, 89

The project site has six diesel emergency generators on-site, five outside process buildings (Copper Foil, Hydromet, Calcination, CAM1, and CAM2) and one supporting Building 2, for emergency operating conditions. The six generators are each permitted for non-emergency use, including maintenance and upkeep activities. During an emergency event, there is no time limit on the emergency generator operation. All generators are anticipated to be subject to 40 CFR Part 63, Subpart ZZZZ, and 40 CFR Part 60, Subpart IIII. Equipment operating hours and fuel consumption are included in the detailed emission calculations provided with this application.

8. NATURAL GAS HEATERS – SYSTEM TBD – REVISED SEPTEMBER 2026

The facility is additionally outfitted with thirty natural gas-fired heaters that provide HVAC support for Buildings 1 and 2. These units are utilized for space heating and comfort conditioning and are fired exclusively with pipeline-quality natural gas.

These units were previously permitted as insignificant activities. However, it is now being requested that these units have a limitation on the amount of fuel they can process. As such, these units will become a permitted system with this revision.

Associated fuel combustion emissions were calculated based on each unit's maximum heat input rating (MMBtu/hr) and projected hours of operation. Equipment operating hours, heat input ratings, and natural gas consumption are included in the detailed emission calculations provided with this application.

9. WET SHRED – SYSTEM TBD – REVISED SEPTEMBER 2026

This permit revision incorporates three Wet Shred operating configurations: one commercial-scale operation and two pilot-scale operations. At the time of this application, three potential locations are being considered for the Wet Shred system. All proposed locations have been evaluated as part of the

Environmental Evaluation to ensure potential environmental impacts associated with operation of the Wet Shred system have been assessed regardless of the final installation location.

The Wet Shred process receives end-of-life lithium-ion batteries and battery-containing materials and utilizes a processing system to produce recyclable material streams for downstream recovery operations. Air emissions associated with Wet Shred operations may include particulate matter, metal-containing particulate matter, volatile organic compounds (VOCs), and other constituents associated with lithium-ion battery recycling activities.

Emissions were calculated using equipment design information, vendor data, engineering calculations, pilot testing information, and best engineering judgment. For additional information regarding process equipment, control systems, operating parameters, and emission calculation methodologies, please see the detailed emission calculations included with this application.

9.1 Wet Shred – Commercial

The Wet Shred Commercial configuration is designed to process end-of-life lithium-ion batteries through shredding, washing, material separation, dewatering, drying, and product recovery operations. The process produces recyclable material streams that may be further processed at downstream recovery facilities.

Air emissions generated during commercial operations are collected and routed through dedicated particulate and VOC control equipment prior to discharge. Emissions are primarily associated with material handling, size reduction, drying operations, and process water treatment activities.

9.2 Wet Shred – Pilot 1

The Wet Shred Pilot 1 configuration is designed to support process development, testing, optimization, and demonstration activities associated with wet battery shredding and material recovery operations. The process utilizes the same general operational principles as the commercial system, including battery shredding, washing, separation, dewatering, and product recovery activities.

Air emissions are controlled through dedicated exhaust collection and treatment systems designed to reduce particulate matter, VOCs, and other process-related emissions prior to discharge.

9.3 Wet Shred – Pilot 2

The Wet Shred Pilot 2 configuration supports process development and evaluation activities using the same general wet shredding and material recovery process as Pilot 1. The primary difference between the pilot configurations is the air emission control strategy utilized for treatment of process exhaust streams.

Air emissions generated during Pilot 2 operations are collected through dedicated exhaust systems and routed to thermal treatment equipment for control of VOCs and other process-related emissions prior to atmospheric discharge. Emissions from Pilot 2 were calculated using equipment design information, engineering calculations, and best engineering judgment. For additional information regarding operating parameters and emission calculations, please see the detailed emission calculations included with this application.

10. INSIGNIFICANT ACTIVITIES – REVISED SEPTEMBER 2026

There is one 8,000-gallon biodiesel tank on site to supply the thermal oxidizer. This unit is deemed insignificant pursuant to NAC 445B.288.2(d). The facility additionally has an evaporator in Building 10, acid storage tanks, solution tanks, and pilot kiln and crushing equipment.

With this revision, an additional propane burner used to power a thermal oxidizer is being added. This unit is deemed insignificant pursuant to NAC 445B.288.2(e)(1).

11. SURFACE AREA DISTURBANCE

Please see the attached Surface Area Disturbance Form provided in this application.

PUBLIC

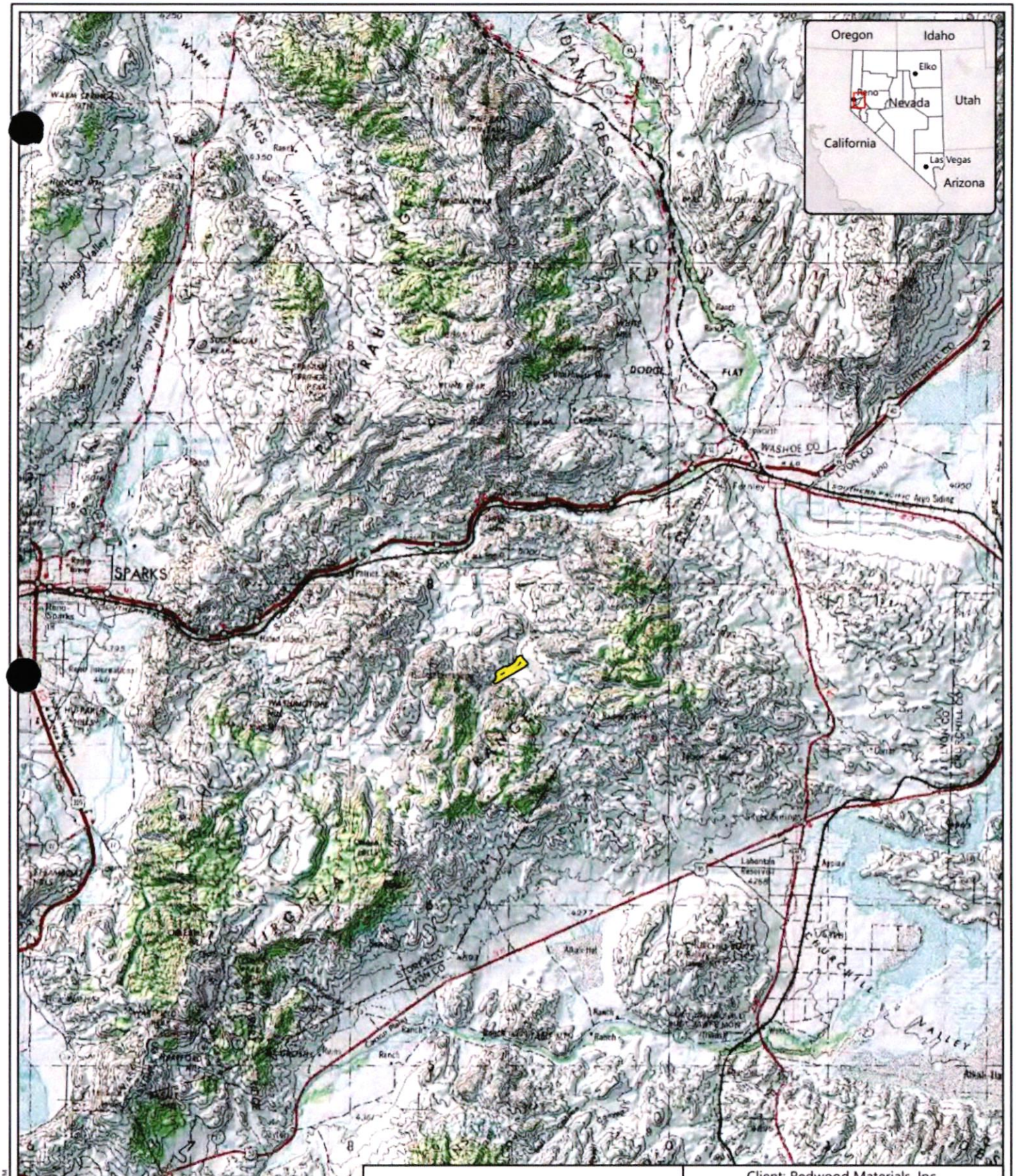


FIGURE 1

Facility Location
Redwood Materials, Inc.
1201 Battery Boulevard
McCarran, Nevada 89434

Client: Redwood Materials, Inc.	
Project Code: RWM020	
NAD 1983 UTM Zone 11N	
H.Chambers	2/27/2025

UES

Last saved by HChambers on 2/27/2025 at 12:51 PM

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APPLICATION CERTIFICATION DOCUMENT

(With Required Attachments)

Please check all applicable boxes below to indicate the information provided in your application submittal:

- ☒ General Company Information Form
- ☒ Industrial Process Application Form(s)
- ☒ Combustion Equipment Application Form(s)
- ☐ Storage Silos Application Form(s) – *Not Applicable*
- ☐ Liquid Storage Tank Application Form(s) – *Not Applicable*
- ☒ Facility-Wide Potential to Emit Table
- ☒ Surface Area Disturbance Form
- ☐ Plant Boundary Coordinates Form *if applicable* – *Not Applicable*
- ☒ Plant Building Parameters Form *if applicable*
- ☒ Detailed Emission Calculations (for all emission units including IA units)
- ☐ Source Testing Data (if referenced in calculations) – *Not Applicable*
- ☒ Process Narrative
- ☒ Process Flow Diagram(s)
- ☒ Site Plan(s) showing the locations (UTM coordinates), dimensions, and heights of buildings on the site
- ☒ Maps:
  - ☒ Vicinity Map of where the facility is located in the State
  - ☒ Area Map of the Facility (including location of all emission units, building locations (with UTMs), location of front gate, and fence line/site boundary (with UTMs))
- ☒ Environmental Evaluation (AERMOD Air Dispersion Modeling) *if applicable* [NAC 445B.310]
- ☒ Manufacturer's Guarantee *if applicable*
- ☒ Equipment Specifications *if applicable*
- ☐ TANKs Modeling Output *if applicable* – *Not Applicable*
- ☒ Application Fee Attached or Electronically Submitted
- ☒ Digital Copy of Application on CD or Thumb Drive
- ☒ Application Certification Document with Original Responsible Official Signature

APPLICATION CERTIFICATION DOCUMENT (CONTINUED)

(With Required Attachments)

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

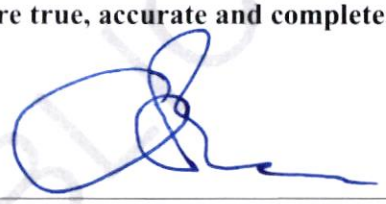
A. A permit applicant must submit supplementary facts or corrected information upon discovery [NAC 445B.297(1)(b)].

B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request [NAC 445B.297(1)(c)].

C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense [NRS 445B.470].

CERTIFICATION:

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



Signature of Responsible Official

Alex Heard, Vice President EHS, Security & Sustainability

Print or Type Name and Title

9/15/26

Date

PUBLIC