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September 2, 2026
Project No.: A25173.00343.000

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: Tanya Soleta
Minor Source Permitting Supervisor, Bureau of Air Pollution Control

Reference: New Class II Air Quality Operating Permit Application
Juniper Ridge Quarry
Joy Engineering
Fernley, Nevada

Dear Ms. Soleta,

On behalf of Joy Engineering (Joy), UES has prepared this New Class II Air Quality Operating Permit Application for the facility referenced above. Joy currently has a crushing and screening plant permitted under a Class II General Air Quality Operating Permit (AQOP) for Temporary Construction Sources (Permit No. AP1442-2259.05; A0769) Change of Location Approval (COLA #3172). The COLA is set to expire on 12/30/2026 and Joy would like to permit the facility as a stationary source under a New Class II Operating Permit.

Included herein is a complete hard-copy of the new permit application, as well as a thumb drive with a digital copy of the application and relevant modeling files. Additionally, a check for \$15,000 for the application fee has been included with this submittal.

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LIMITATIONS

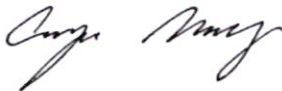
The information presented herein is based in part on the information provided to UES. UES makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It should be recognized that definition and evaluation of environmental emission conditions is 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.

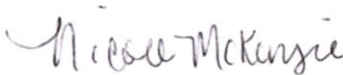
CLOSING

Should you have any questions regarding the information provided herein please contact Nicki McKenzie at (775) 829-2245.

Respectfully,
UES

A handwritten signature in black ink, appearing to read "Cooper McCleery".

Cooper McCleery, E.I.
Staff Engineer

A handwritten signature in black ink, appearing to read "Nicki McKenzie".

Nicki McKenzie, P.E.
Senior Air Quality Specialist

Class II Air Quality Operating Permit Application Form

Facility Name: Juniper Ridge Quarry

Existing Facility ID: A TBD

Existing Class II AQOP: AP TBD

Type of Facility: Sand/Gravel Crushing and Screening

Number of Units (including IA's) in Facility: 32

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

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

September 2024
(Ver. 6)

IMPORTANT INFORMATION

- The Application packet contains:
 - General Company Information Form
 - Industrial Process Form
 - Facility-Wide Potential to Emit Table
 - Surface Area Disturbance Form
 - Plant Boundary Coordinates Form
 - Environmental Evaluation
 - 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 or 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.

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Tab	Section
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C	Combustion Application Forms
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E	Detailed Emissions Calculations
F	Surface Area Disturbance Form
G	Plant Boundary Coordinate and Plant Area Coordinate Forms
H	Narrative Description
I	Application Certification Document

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.

This facility is a gravel crushing and screening operation. The facility falls under SIC code 1442 and NAICS code 212321.

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

Name: R&J Joy, Inc. dba Joy Engineering

Address: P.O. Box 19219

City: Reno

State: Nevada

Zip Code: 89511

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

Name: R&J Joy, Inc. dba Joy Engineering

Address: P.O. Box 19219

City: Reno

State: Nevada

Zip Code: 89511

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

Name: Juniper Ridge Quarry

Address: Duffy Rd

City: Fernley

State: Nevada

Zip Code: 89406

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: Richard Joy
Title: President
Address: P.O. Box 19219
City: Reno
State: Nevada Zip Code: 89511
Phone Number: (530) 832-5670
Fax Number: (530) 832-5472
E-mail Address: rick@joyengineering.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: Eric Jones
Title: Project Manager
Address: P.O. Box 19219
City: Reno
State: Nevada Zip Code: 89511
Phone Number: (775) 323-2246
Fax Number: (530) 832-5472
E-mail Address: ejones@joyengineering.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: HA 76
HA Basin Name: Fernley Area

Township(s): 21 N; Range(s): 25 E; Section(s): 21

UTM Coordinates for the Front Gate of the Facility (NAD 83, Zone 11):

4,393,414 m North; 313,031 m East;

Nearest City: Fernley, Nevada

County: Churchill County

Driving Directions from nearest city to the Facility: Take exit 50 to Nevada Pacific Parkway and turn right. Drive 500 feet and take a left onto Duffy Road. Drive for approximately 4.25 miles and take a left onto the dirt road. Drive for 0.75 miles and arrive at the facility.

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

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Loader Transfer to Screen 1 Hopper

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.001
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	12.92 x 9.6 x 11.67
	Drop Length <i>if applicable</i>	feet	2
	Drop Height <i>if applicable</i>	feet	11.67
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 1 and Associated Transfers (In: Screen 1 Hopper; Out: Screen 1 Discharge Conveyor 1, Screen 1 Discharge Conveyor 2, and Screen 1 Discharge Conveyor 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	PF1.002
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-02
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	12.92 x 9.6 x 8
	Drop Length if applicable	feet	1
	Drop Height if applicable	feet	8
	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	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	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		Not Specified
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 1 Discharge Conveyor 1 to Stacker Belt 1 or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.003	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10	
	Drop Length <i>if applicable</i>	feet	10	
	Drop Height <i>if applicable</i>	feet	10	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11)	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Stacker Belt 1 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.004
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35
	Drop Length <i>if applicable</i>	feet	35
	Drop Height <i>if applicable</i>	feet	35
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 1 Discharge Conveyor 2 to Stacker Belt 2 or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.005
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10
	Drop Length <i>if applicable</i>	feet	10
	Drop Height <i>if applicable</i>	feet	10
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Stacker Belt 2 to Jaw Crusher Hopper or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.006	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	16 x 8 x 13	
	Drop Length <i>if applicable</i>	feet	2	
	Drop Height <i>if applicable</i>	feet	13	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11)	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 1 Discharge Conveyor 3 to Jaw Crusher Hopper

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.007
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10
	Drop Length <i>if applicable</i>	feet	10
	Drop Height <i>if applicable</i>	feet	10
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Loader Transfer to Jaw Crusher Hopper

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.008
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	16 x 8 x 13
	Drop Length <i>if applicable</i>	feet	2
	Drop Height <i>if applicable</i>	feet	13
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Jaw Crusher and Associated Transfers (In: Jaw Crusher Hopper; Out: Jaw Crusher Discharge Conveyor 1 and Jaw Crusher Discharge Conveyor 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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.009
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	3.67 x 2.33 x 10
	Drop Length <i>if applicable</i>	feet	1
	Drop Height <i>if applicable</i>	feet	10
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Jaw Crusher Discharge Conveyor 1 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.010
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	10 x 3.25 x 12.75
	Drop Length <i>if applicable</i>	feet	12.75
	Drop Height <i>if applicable</i>	feet	12.75
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	Stack Release Type	☐ vertical ☐ capped ☐ horizontal	

- 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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Jaw Crusher Discharge Conveyor 2 to Cone Crusher Hopper or Stacker Belt 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	PF1.011
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	8 x 2 x 7.2
	Drop Length if applicable	feet	7.2
	Drop Height if applicable	feet	7.2
	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	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	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		Not Specified
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Cone Crusher and Associated Transfers (In: Cone Crusher Hopper; Out: Cone Crusher Discharge 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	PF1.012
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	5 x 5 x 10
	Drop Length if applicable	feet	1
	Drop Height if applicable	feet	10
	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	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	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		Not Specified
	Manufacturer's Guarantee Included? If "yes", attach manufacturer's sheets immediately after these forms.	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Cone Crusher Discharge Conveyor to Screen 2 Hopper

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.013
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	12 x 3.25 x 11.2
	Drop Length <i>if applicable</i>	feet	11.2
	Drop Height <i>if applicable</i>	feet	11.2
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 2 and Associated Transfers (In: Screen 2 Hopper; Out: Screen 2 Discharge Conveyor 1, Screen 2 Discharge Conveyor 2 and Screen 2 Discharge Conveyor 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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.014
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-02
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	20 x 5 x 14
	Drop Length <i>if applicable</i>	feet	1
	Drop Height <i>if applicable</i>	feet	14
	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 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 2 Discharge Conveyor 1 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.015
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	12 x 2.17 x 14.5
	Drop Length <i>if applicable</i>	feet	16.25
	Drop Height <i>if applicable</i>	feet	16.25
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 2 Discharge Conveyor 2 to Stacker Belt 3 or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.016	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	12 x 4 x 15.6	
	Drop Length <i>if applicable</i>	feet	15.6	
	Drop Height <i>if applicable</i>	feet	15.6	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11)	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Stacker Belt 3 to Cone Crusher Hopper or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.017
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35
	Drop Length <i>if applicable</i>	feet	35
	Drop Height <i>if applicable</i>	feet	35
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Screen 2 Discharge Conveyor 3 to Stacker Belt 4 or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.018	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	12 x 2.17 x 14.5	
	Drop Length <i>if applicable</i>	feet	14.5	
	Drop Height <i>if applicable</i>	feet	14.5	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11)	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 1 – Crushing and Screening

Emission Unit Description: Stacker Belt 4 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.019	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35	
	Drop Length <i>if applicable</i>	feet	35	
	Drop Height <i>if applicable</i>	feet	35	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11)	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screen 3

Emission Unit Description: Loader Transfer to Screen 3 Hopper

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.020	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	10 x 3.5 x 12.5	
	Drop Length <i>if applicable</i>	feet	2	
	Drop Height <i>if applicable</i>	feet	12.5	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11)	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screen 3

Emission Unit Description: Screen 3 and Associated Transfers (In: Screen 3 Hopper; Out: Screen 3 Discharge Conveyor 1, Screen 3 Discharge Conveyor 2, Screen 3 Discharge Conveyor 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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.021
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-02
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	20 x 5 x 14
	Drop Length <i>if applicable</i>	feet	1
	Drop Height <i>if applicable</i>	feet	14
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screen 3

Emission Unit Description: Screen 3 Discharge Conveyor 1 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.022
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10
	Drop Length <i>if applicable</i>	feet	10
	Drop Height <i>if applicable</i>	feet	10
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	Stack Release Type	☐ vertical ☐ capped ☐ horizontal	

- 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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screen 3

Emission Unit Description: Screen 3 Discharge Conveyor 2 to Stacker Belt 5 or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.023
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35
	Drop Length <i>if applicable</i>	feet	35
	Drop Height <i>if applicable</i>	feet	35
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screen 3

Emission Unit Description: Stacker Belt 5 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.024
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35
	Drop Length <i>if applicable</i>	feet	35
	Drop Height <i>if applicable</i>	feet	35
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11)	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 2 – Screen 3

Emission Unit Description: Screen 3 Discharge Conveyor 3 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.025
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10
	Drop Length <i>if applicable</i>	feet	10
	Drop Height <i>if applicable</i>	feet	10
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11) ¹	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 3 – Screen 4

Emission Unit Description: Loader Transfer to Screen 4 Hopper

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.026
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	10 x 3.5 x 12.5
	Drop Length <i>if applicable</i>	feet	2
	Drop Height <i>if applicable</i>	feet	12.5
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11) ¹	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 3 – Screen 4

Emission Unit Description: Screen 4 and Associated Transfers (In: Screen 4 Hopper; Out: Screen 4 Discharge Conveyor 1, Screen 4 Discharge Conveyor 2, Screen 4 Discharge Conveyor 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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.027
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-02
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	20 x 5 x 14
	Drop Length <i>if applicable</i>	feet	1
	Drop Height <i>if applicable</i>	feet	14
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11) ¹	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 3 – Screen 4

Emission Unit Description: Screen 4 Discharge Conveyor 1 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.028	
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06	
	Manufacturer	Not Specified		
	Date Manufactured	Not Specified		
	Model Number	Not Specified		
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10	
	Drop Length <i>if applicable</i>	feet	10	
	Drop Height <i>if applicable</i>	feet	10	
	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. <i>Choose one, if applicable</i>			
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A	
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A	
	Emissions Released Inside building?	yes/no	No	
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.	
	UTM Easting (NAD 83, Zone 11) ¹	m		
Operating Parameters	Material Type Processed	Aggregate		
	Batch Process <i>if applicable</i>	unit /batch	N/A	
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A	
Control Equipment	Manufacturer	Not Specified		
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A	
Stack Parameters	Stack Height	feet	N/A	
	Stack Inside Diameter	feet	N/A	
	Stack Temperature	°F	N/A	
	Stack Exit Velocity	feet/second	N/A	
	Actual Gas Volume Flow Rate	acfm	N/A	
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A	
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 3 – Screen 4

Emission Unit Description: Screen 4 Discharge Conveyor 2 to Stacker Belt 6 or Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.029
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35
	Drop Length <i>if applicable</i>	feet	35
	Drop Height <i>if applicable</i>	feet	35
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11) ¹	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM

CLASS II OPERATING PERMIT

System Number and Name: System 3 – Screen 4

Emission Unit Description: Stacker Belt 6 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.030
	Source Classification Code (SCC)	e.g. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	39 x 4 x 35
	Drop Length <i>if applicable</i>	feet	35
	Drop Height <i>if applicable</i>	feet	35
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11) ¹	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.

INDUSTRIAL PROCESS APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: System 3 – Screen 4

Emission Unit Description: Screen 4 Discharge Conveyor 3 to Stockpile

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 <i>Applicable for Renewal or Revision</i>	eg. Unit ID: S2.001, PF1.001	PF1.031
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	3-05-020-06
	Manufacturer		Not Specified
	Date Manufactured		Not Specified
	Model Number		Not Specified
	Equipment Dimensions (LxWxH)	feet	25 x 3 x 10
	Drop Length <i>if applicable</i>	feet	10
	Drop Height <i>if applicable</i>	feet	10
	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. <i>Choose one, if applicable</i>		
	Drop Horizontal Dimension 1 <i>if applicable</i>	feet	N/A
	Drop Horizontal Dimension 2 <i>if applicable</i>	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11) ¹	m	Unit is requested to be permitted as portable within the area of the corner coordinates provided see plant area boundary coordinates in section G.
	UTM Easting (NAD 83, Zone 11) ¹	m	
Operating Parameters	Material Type Processed		Aggregate
	Batch Process <i>if applicable</i>	unit /batch	N/A
	Start Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
	End Time <i>if operating less than 24 hours day</i>	hour:minute	N/A
Control Equipment	Manufacturer		Not Specified
	Manufacturer's Guarantee Included? <i>If "yes", attach manufacturer's sheets immediately after these forms.</i>	yes/N/A	N/A
Stack Parameters	Stack Height	feet	N/A
	Stack Inside Diameter	feet	N/A
	Stack Temperature	°F	N/A
	Stack Exit Velocity	feet/second	N/A
	Actual Gas Volume Flow Rate	acfm	N/A
	Dry Gas Volume Flow Rate <i>If not included in detailed calculations.</i>	dscfm	N/A
	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 throughput will be accounted for by tracking amount of material loaded into the system and daily system outputs of product material produced.



COMBUSTION EQUIPMENT APPLICATION FORM CLASS II OPERATING PERMIT

System Number and Name: **System 04 – Diesel Generator**
 Emission Unit Description: **Scale House Generator (CATERPILLAR XQ20, Serial No. CAT00000JGBE00823, 27 HP)**

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
	Source Classification Code (SCC)	eg. 3-03-024-04 for Conveyors	2-02-001-01
	Manufacturer		CATERPILLAR
	Date Manufactured		Not Specified
	Model and Serial Number		XQ20 Serial No. CAT00000JGBE00823
	Emissions Released Inside building?	yes/no	No
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		NECI
	Date Constructed	month/day/yr	Not Specified (>2014)
	Cylinder Displacement	liter/cylinder	1.7
	EPA Tier #		Tier 4 Final
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4393204.67
	UTM Easting (NAD 83, Zone 11)	m	313023.23
Operating Parameters /Fuel Usage	Fuel Type		Diesel
	Fuel Flow Meter Installed?	yes/no/NA	No
	Sulfur Content	%	0.0015
	Heat Content	Btu/unit	140,000
	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	4.6
	Stack Inside Diameter	feet	0.3
	Stack Temperature	°F	950
	Stack Exit Velocity	feet/second	11.9
	Actual Gas Volume Flow Rate	acfm	168
	Dry Gas Volume Flow Rate If not included in detailed calculations.	dscfm	Not Specified
	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:

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).

Maximum fuel consumption rate multiplied by hours of operation.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:

☐ Yes ☒ No

Cat® XQ20 Rental Generator Set

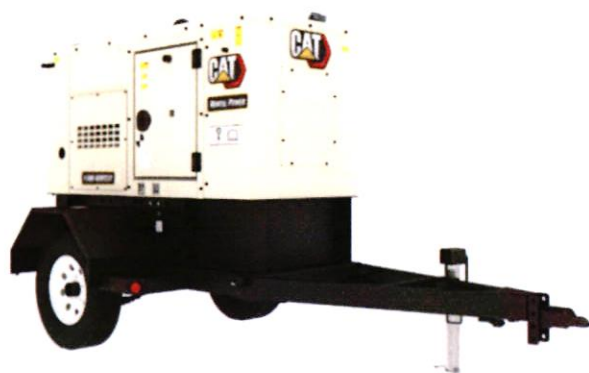


Image shown may not reflect actual configuration.

Prime 16 ekW, 20 kVA
U.S. EPA Tier 4 Final
60 Hz
1800 RPM

Specifications

Generator	Frequency	Voltage	Prime ekW (kVA)	Phase	Amp (A)
Standard	60 Hz	480/277V	16 (20)	3-phase	24.1
	60 Hz	208/120V	16 (20)	3-phase	55.5
	60 Hz	240/120V	12 (12)	1-phase	50.0
Optional	60 Hz	600/346V	16 (20)	3-phase	19.2
	60 Hz	480/277V	16 (20)	3-phase	24.1
	60 Hz	208/120V	16 (20)	3-phase	55.5
	60 Hz	240/120V	12 (12)	1-phase	50.0

Cat® C1.5 Diesel Engine	Metric	Imperial (English)
Configuration	I-3, 4-Stroke Diesel	
Bore	84 mm	3.3 in
Stroke	90 mm	3.5 in
Displacement	1.5 L	91 in ³
Aspiration	Turbocharged	
Compression Ratio	22.5:1	
Engine Speed	1800 rpm	
Governor Type	Mechanical E-Gov (APECS)	
Governor Class	ISO 8528 G2	
Maximum power at rated speed – kW (hp) Prime	16.56	(22.2)

Note: XQ20 is Prime rating without overload capability.

Benefits & Features

Fuel/Emissions Strategy

- Meets U.S. EPA Tier 4 Final emission standard and CARB certified for non-road mobile applications at all 60 Hz ratings

Cat C1.5T Diesel Engine

- Four-stroke diesel engine combines performance and excellent fuel economy with minimum weight
- 500-hour oil change interval
- Cassette type fuel injection pump with Electronic actuator
- Engine block heater 120VAC

Cat Generator

- Matched to the performance and output characteristics of Cat diesel engines
- Class H Insulation
- CIP Insulation – Standard

XQCP Control Panel

- Fully featured power metering, protective relaying, engine/generator control and monitoring
- Simple user-friendly interface and navigation
- Single point interface for voltage and frequency adjustment
- Voltage Regulators R220 & A109

Environmentally Friendly Design

- 110% spill containment of all engine fluids
- Dual wall metal fuel tank design

Sound-attenuated Enclosure

- Rugged, corrosion-resistant construction:
 - Galvanized, sheet steel body panels with pretreatment prior to polyester powder coating
 - Single Point and 4 point lift
- Pad lockable door latches
- Excellent access for service and maintenance:
 - Access door on each side and dedicated access to control panel door for power distribution and control panel access
 - Dedicated access for Battery access
 - Lube oil and coolant drains piped to exterior of the enclosure
- Security and safety features:
 - Control panel with access door with safety-glass viewing window
 - Exterior emergency stop (E-stop) button

Standard Controls and Power Distribution

- Controls, sockets, and power distribution all accessible via rear access door
- Hinged door with safety switch to trip breaker
- Robust Bus bar design for ease of customer termination
- Remote start capability
- Solar powered battery maintenance

Asset Monitoring and Management

- Cat Connect hardware provides two-way communication for remote control and equipment monitoring via cellular network. (Telematics)
- Customer-defined, equipment-based real-time status updates and alerts
- Flexible and customer-configurable user interface
- GPS provides asset location and geo-fencing

Optional

- Generator anti-condensation heater
- Battery charger
- 3 Way fuel valve
- Block Heater
- NEMA Sockets
- Camlock Connections
- 600/346 Voltage

Standard Equipment

Engine

- Cat C1.5, heavy-duty, U.S. EPA Tier 4 Final certified
- Requires Ultra Low Sulfur Diesel (ULSD) fuel
- Engine Electrical System:
 - 12-volt, DC electrical system
 - 65 amp, DC charging alternator
- Oil pressure, coolant temperature
- Engine Filtration System:
 - Canister type air filter with service indicator
 - Cartridge-type fuel filter with upstream pre-filter and water separator,
 - Spin-on, full-flow lube oil filter, requires API CH-4 lube oil (or later)

Generator and Voltage Regulation

- Screen protected and drip-proof (IP23), self-regulating, 12-lead, 4-pole, brushless generator
- Sealed-for-life bearing
- Electrical design in accordance with IEC60034-1, EN61000-6, NEMA MG-1.22, and UL, CSA Listed
- Self-excited for self-protection against short circuits
- Voltage selection switch (4 position) mounted to generator terminal box
- Class H insulation system
- Windings are impregnated in a thermo-setting moisture, oil, and acid resisting varnish
- Heavy coat of anti-tracking varnish for additional protection against moisture or condensation (CIP)
- R220 Voltage Regulator:
 - Simplified operation and troubleshooting
 - Removes duplication of set points
 - Fully supported by Cat ET service tool
- A109 Voltage Regulator supports the 600V
- Waveform distortion, THF, and TIF Factors:
 - Total distortion of voltage waveform with open circuit between phases of Total distortion <5%, on a 3-phase, balanced, harmonic-free load
 - Total distortion under no load
 - Waveform: NEMA (TIF <50)
 - 2/3 pitch standard on all stator windings

Optional

- Anti-condensation, space heater 120V AC
- Solar battery charger
- Battery charger
- 3-way valve

Generator Set Packaging

Baseframe and containment tray

- Heavy-duty, fabricated steel base frame integrated to trailer base
- Spill containment tray mounted to base frame, with leak-detection switch

• Canopy

- Sound attenuated to 61 dBA at 7m (23 ft)
- Single door access on each side, and one dedicated access for power distribution and control panel access

• Cooling System:

- Radiator with protective guards
- Ambient clearance – 43°C @ 500 MASL

• Electrical System:

- 12-volt, DC electrical system
- 750 CCA, maintenance-free, wet battery
- Battery disconnect switch, lockable

• Engine and generator mounting:

- Engine and generator are directly coupled by an SAE flange
- Engine flywheel is flexibly coupled to the generator rotor, with full torsional analysis completed to ensure no harmful vibration will occur in the assembly
- Anti-vibration pads between engine/generator feet and base frame

• Fuel System:

- 24 hour runtime at 100% Prime operation

Trailer

- Single axle, Foldable type, No brakes

Standard Equipment (continued)

Generator Controls and Power Distribution

- XQCP generator set controller, mounted behind a hinged, lockable door with viewing window
- Circuit Breaker: 3-pole 60 Amp breaker with Shunt trip
- Safety switch on hinged main bus cover – trips breaker if cover is opened
- Two-wire, remote start-stop terminals
- Rotary 4 position Voltage Selector Switch
- Customer auxiliary power connections:
 - California Twistlock
 - Duplex GFCI
 - Each receptacle is protected by a miniature circuit breaker, which also acts as an on/off switch
- Main customer connections:
 - Tin-plated copper bus bars with phase separators, located behind a protective door with shunt trip switch
 - Bus bars sized for full load capacity of generator set at 0.8 power factor

Quality and Product Support

- Factory load-testing of complete generator set
- Factory test certificate available upon request
- Equipment meets the following standards: IEC60034, EN61000-6
- Full set of operation and maintenance manuals

Technical Data

Cat Generator		
Frame Size		1514B
Pitch		0.6667
No. of poles		4
Insulation		Class H
Enclosure		Drip proof IP23
Voltage regulation		± 0.5% at steady state from no load to full load
Frequency regulation		± 0.75% for constant load from no load to full load
Waveform distortion		THD <5%
Telephone interference		TIF<50
Overspeed limit		1980 RPM
Available voltages	Standard	Switchable voltage output: 480/277V, 3-phase; 208/120V, 3-phase; 240/120V, single-phase
	Optional	Switchable voltage output: 600/346V, 3-phase; 480/277V, 3-phase; 208/120V, 3-phase; 240/120V, single-phase

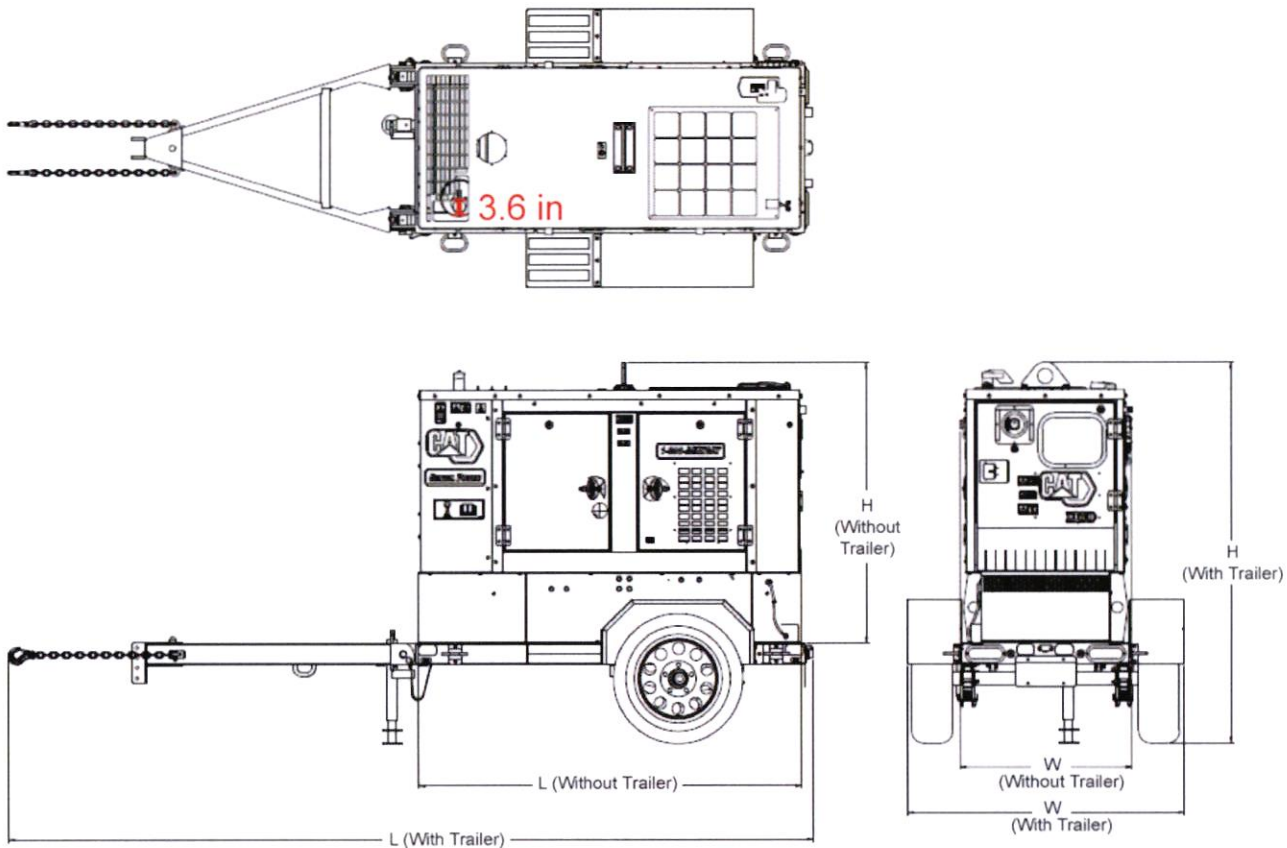
Cat Generator Set – 1800 rpm / 60 Hz		Units	Prime
Power Rating		kW (kVA)	16 (20)
Performance Specification			
Lubricating System			
Total oil		L (gal)	6 (1.59)
Fuel System			
Fuel Consumption — 100% Load		L/hr (gal/hr)	5.7 (1.50)
75% Load		L/hr (gal/hr)	4.3 (1.13)
50% Load		L/hr (gal/hr)	3.1 (0.83)
Fuel Tank Capacity		L (gal)	145 (38.3)
Cooling System			
Radiator system capacity including engine		L (U.S. gal)	6 (1.59)
Heat rejected to coolant at rated power		kW (Btu/min)	18.9 (1076)
Air Requirements			
Combustion air flow rate		m³/min (cfm)	1.62 (57.1)
Radiator cooling air flow rate		m³/min (cfm)	29.5 (1041.8)
Generator cooling air flow rate		m³/min (cfm)	7.8 (275.5)
Noise Rating*			
[Sound pressure level with enclosure at 7 meters (23 feet)]		dBA	61

*dBA levels are for guidance only.

Dimensions and Weights

Model	Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry Weight kg (lb)	Wet Weight kg (lb)
XQ20 with trailer (No brakes)	3410 (134.25) 2096 (82.52)*	1389 (54.68)	1900 (74.8)	1104 (2429)	1232(2710)
XQ20 without trailer	1960 (77.2)	865 (34.1)	1399 (55.1)	831 (1832)	959 (2114)

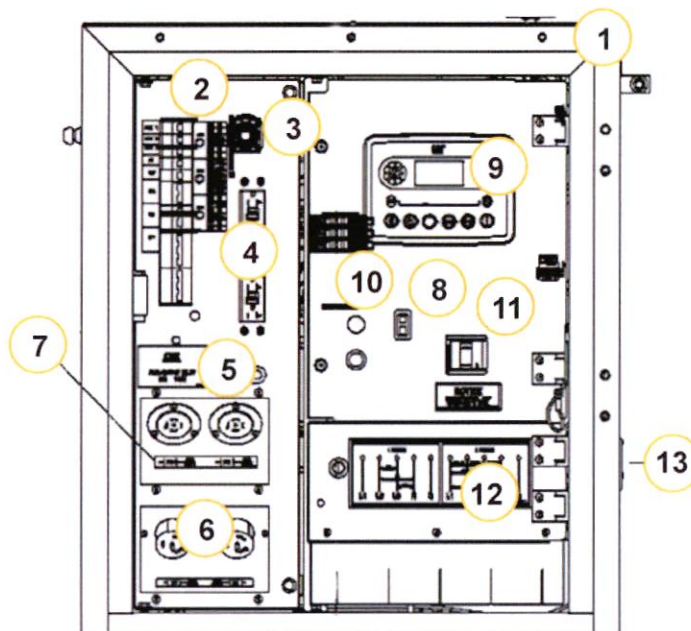
*Length after folding the tongue.



Layout for General Dimensions

Control Panel and Power Distribution Layout

Ref. Location	Description
1	Steel Enclosure with hinged lockable door
2	MCBs for Receptacles
3	Emergency Push Button (E-Stop)
4	Single Phase GFCI Duplex Receptacle (20A @ 120V)
5	Remote Start Terminals
6	Single Phase California style Twist-lock Receptacles (50A @ 208V Phase to Phase), 120V Phase to Neutral or 240/120V Single Phase
7	2 x 3 Phase NEMA 20A Receptacles
8	Glowplug Indicator Lamp
9	XQCP Controller
10	Voltage Adjustment Potentiometer
11	Main Breaker
12	Customer Power Outlet Connections
13	Customer Shore Power Connections



REAR VIEW OF CONTROL PANEL

Ratings Definitions and Conditions

Prime — Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW.

Fuel Rates — Fuel consumption reported in accordance with ISO 3046-1, based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 15°C (59°F) and weighing 850 g/liter (7.0936 lbs/U.S. gal.) All fuel consumption values refer to rated engine power.

www.cat.com/electricpower

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XQ20 GENERATOR

20KW



SPECIFICATIONS

GENERATOR

Voltage Regulation	± 0.5% 3 Phase at steady state from no load to full load
Frequency Regulation	± 0.85% for constant load from no load to 100% load
Waveform Distortion	THD <4.0%, at no load
Radio Interference	Compliance with EN61000-6
Telephone Interference	TIF <50, THF <2%
Overspeed Limit	2250 rpm
Insulation	Class H
Temperature Rise	Within Class H limits
Available Voltages	.480/277 Volt 3 phase, 208/120 Volt 3 phase, 240/120 Volt single phase
Deration	Consult factory for available outputs
Ratings	At 25° C (77° F), 100 m (328 ft), 30% humidity, 0.8 pf (3-Phase), 1.0 pf (1-Phase)

ENGINE

Manufacturer	Caterpillar®
Model	C2.2
Type	4-Cycle
Aspiration	NA
Cylinder Configuration	In-line 4
Displacement — L (in³)	2.2 (135)
Bore — mm (in)	.84 (3.3)
Stroke — mm (in)	100 (3.9)
Compression ratio	23.3
Governor	
Type	Mechanical
Class	Class A1
Air cleaner type	Dry, replaceable paper element, type with restriction indicator
Piston speed — m/sec (ft/sec)	6.0 (19.7)
Engine speed — rpm	1800
Maximum power at rated rpm — kW (hp)	
Standby	24.3 (33)
Prime	22 (30)
BMEP — kPa (psi)	
Standby	731 (106)
Prime	658 (96)

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TECHNICAL DATA

XQ20

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz			Standby	
Power Rating*	kW	(kVA)	20	(25)
Lubricating System				
Type: Full Pressure				
Oil Filter: Spin-On, Full Flow				
Oil Cooler: Water Cooled Oil				
Type Required: API CF-4				
Total Oil Capacity	L	(U.S. gal)	10.6	(2.8)
Oil Pan	L	(U.S. gal)	8.9	(2.45)
Fuel System				
Fuel Filter Type: Replaceable Element				
Generator Set Fuel Consumption				
100% Load	L/hr	(G/hr)	6.5	(1.7)
75% Load	L/hr	(G/hr)	4.9	(1.3)
50% Load	L/hr	(G/hr)	3.6	(1.0)
Fuel Tank Capacity	L	(U.S. gal)	171	(45)
Running Time				
at 100% load	Hours		26+	
Cooling System				
Water Pump Type: Centrifugal				
Radiator System Capacity Including Engine	L	(U.S. Gal)	8.7	(2.3)
Minimum Temperature to Engine	°C	(°F)	76	(169)
Temperature Rise Across Engine	°C	(°F)	7.5	(13.5)
Heat Rejected to Coolant at Rated Power	kW	(Btu/min)	19.9	(1,132)
Radiator Fan Load	kW	(hp)	0.4	(0.54)
Air Requirements				
Combustion Air Flow Maximum	m³/min	(cfm)	1.7	(61)
Air Cleaner Restriction Radiator	kPa	(in H ₂ O)	3.0	(12)
Cooling Air	m³/min	(cfm)	44.4	(1,568)
Generator Cooling Air	m³/min	(cfm)	10.8	(382)
Exhaust System				
Exhaust Backpressure (Measured)	kPa	(in Hg)	10.0	(3.0)
Exhaust Flow at Rated kW	m³/min	(cfm)	4.8	(168)
Exhaust Temperature at Rated kW — Dry Exhaust	°C	(°F)	510	(950)
Generator Set Noise Rating**				
(With enclosure) at 7 m (23 ft)	dB(A)		63	

**Three phase power rating

**dBA levels are for guidance only

Model	Length mm (in)	Width mm (in)	Height mm (in)	Weight	
				With Lube Oil & Coolant kg (lb)	With Fuel, Lube Oil & Coolant kg (lb)
XQ20	1980 (78)	820 (32.3)	1555 (61.2)	1020 (2,248)	1166 (2,571)
XQ20 with trailer	3429 (135)	1596 (62.8)	1822 (71.7)	1253 (2,761)	1399 (3,084)

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STANDARD CONTROLS

FEATURES

EPA/ARB TIER 4i FLEX PACKAGE FOR NON-ROAD MOBILE APPLICATIONS.

GENERATOR SET

- Heavy duty industrial Tier 4i emission level EPA/ARB flexibility diesel engine
- Complete system designed and built at ISO 9001 certified facility
- Factory tested to design specifications at full load conditions

ENGINE

- Governor, mechanical
- Electrical system, 12V DC
- Cartridge type filters
- Fuel/water separator
- Battery, rack and cables

GENERATOR

- Insulation system, class H
- Screen protected and drip-proof, self exciting, self-regulating with fully interconnected damper windings, IC06 cooling system and sealed-for-life bearings
- Electrical design in accordance with BS5000 Part 99, IEC60034-1, EN61000-6, NEMA MG-1.22

CONTROL SYSTEM

- Manual/Autostart control panel
- Vibration isolated, NEMA 1 enclosure with lockable hinged door
- DC and AC wiring harnesses

AUTOMATIC VOLTAGE REGULATOR

- Voltage within the limits of $\pm 0.5\%$ for 3 Phase and $\pm 1\%$ for Single Phase operation at steady state from no load to full load

EQUIPMENT FINISH

- All electroplated hardware
- Anti-corrosive protection prior to painting
- High gloss polyurethane paint for durability and scuff resistance

QUALITY STANDARDS

- IEC60034, EN61000-6, NEMA MG-1.22

DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

WARRANTY

- All equipment carries full manufacturers warranty

MULTI-VOLTAGE DISTRIBUTION PANEL

- Switchable voltage output:
 - 480/277V 3 phase
 - 208/120V 3 phase
 - 240/120V 1 phase
- Convenience receptacles
- Hinged door over main connectors
- NEMA 1 steel enclosure, vibration isolated

CIRCUIT BREAKER

- Dual, 3-pole with solid neutral, UL/CSA listed

MOUNTING ARRANGEMENT

- Heavy-duty fabricated steel base raised for forklift access
- Anti-Vibration mounting pads
- Complete OSHA guarding
- Three-way valves to allow connection of auxiliary fuel tank
- UL listed single walled fuel tank base with 24 hour minimum fuel supply.
- Containment area for oil, coolant and fuel spill.

SOUND ATTENUATED ENCLOSURE

- Fully weatherproof sound attenuated enclosure with internal exhaust silencer
- Highly corrosion resistant construction
 - Body made from sheet steel components pretreated with zinc phosphate prior to polyester powder coating at 200° C (392° F)

OPTIONAL EQUIPMENT*

ENGINE

- Electronic governor
- Fuel tank – UL listed double wall tank base with 24 hour minimum supply
- Battery charger

GENERATOR

- Anti-condensation heater 110-120V AC

COOLING SYSTEM

- Coolant heater 110-120V AC

TRAILER

- Single axle, hydraulic or electric brake

MISCELLANEOUS ACCESSORIES

- Additional operator's manual pack
- French or Spanish language labels

EXTENDED SERVICE COVERAGE

- Extended service coverage available

*Some options may not be available on all models.
Not all options are listed.

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CONTROL PANEL

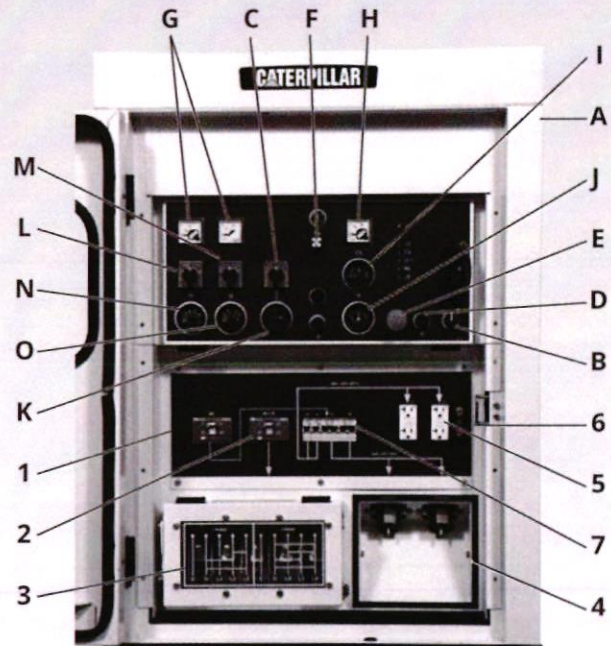
- A NEMA 1 steel enclosure with hinged lockable door and viewing window.
- B Off/auto/run switch.
- C Panel light ON/OFF switch.
- D Pre-heat pushbutton.
- E Red emergency stop pushbutton.
- F Voltage adjust potentiometer.
- G Voltmeter and ammeter.
- H Frequency meter.
- I Battery voltage indicator.
- J Fuel, level display with momentary activation pushbutton.
- K Hours run meter.
- L 7 position voltmeter phase selector switch.
- M 4 position ammeter phase selector switch.
- N Oil pressure gauge.
- O Water temperature gauge.

OTHER FEATURES

- Shutdowns: high coolant temperature/low coolant level, low oil pressure, overcrank, overspeed.
- Low fuel level/fuel tank leak alarm.
- Printed circuit board control logic.
- Autostart standard.
- Cycle cranking with 3 adjustable time crank/rest periods.
- Battery charger, 5 Amp constant voltage, UL listed (optional).

DISTRIBUTION PANEL

- 1 3 pole, 100 Amp molded case circuit breaker (M5) with solid neutral UL/CSA listed with shunt trip. Provides thermal and magnetic overload protection when using receptacles.
- 2 3 Pole, 100 Amp MCCB with solid neutral, UL/CSA listed with shunt trip. Integral trip unit for thermal and magnetic overload protection when using main bus connections.



- 3 Main bus connection studs for 1 phase and 3 phase enclosed with hinged transparent cover. Includes safety lockout feature to keep unit from operating with the door open.
- 4 2 — Single phase — California style Twistlocks, 50 Amps @ 208 Volt phase to phase, 120 Volt phase to neutral (adjustable to 240/139) or 240/120 single phase when operating in single phase voltage position.
- 5 2 — Single phase — GFCI Duplex receptacles, 20 Amps @ 120 Volts.***
- 6 Remote start contact terminals.
- 7 Individual circuit breaker protection for receptacles, also act as on/off switches.

*** Receptacles not for use with unit operating at 480/277V or 240/139V 3 phase.

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**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)	13.95	61.10
Total PM10	5.02	21.97
Total PM2.5	0.78	3.41
Total Sulfur Dioxide (SO2)	0.069	0.30
Total Carbon Monoxide (CO)	0.24	1.06
Total Oxides of Nitrogen (NOX)	0.27	1.20
Total Volatile Organic Compounds (VOC)	0.083	0.36
Total Lead (Pb)	-	-
Total Hydrogen Sulfide (H2S)	-	-
Total Sulfuric Acid Mist (H2SO4)	-	-
Total Hazardous Air Pollutants (HAPs)	9.02E-04	3.95E-03
Total Greenhouse Gases (CO2e)	-	170.96
Other Regulated Pollutants (Specify)	-	-

REVISION TABLE *Not Applicable*

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	NO _x	CO	VOC	HAPs	CO _{2e}	Other
Permitted Facility-Wide PTE (TPY)	-	-	-	-	-	-	-	-	-	-
Proposed Facility-Wide PTE (TPY)	-	-	-	-	-	-	-	-	-	-
Change in Facility-Wide PTE (TPY)	-	-	-	-	-	-	-	-	-	-

Detailed Emission Calculations Summary Sheet

Unit Description	Requested Emission Limits (lb/hr)								Requested Emission Limits (ton/yr)								
	Total PM	PM-10	PM-2.5	SO ₂	CO	NOx	VOC	Total HAP	Total PM	PM-10	PM-2.5	SO ₂	CO	NOx	VOC	Total HAP	CO2-e
Systems 01-03 (Crushing & Screening)	13.94	5.00	0.76	-	-	-	-	-	61.04	21.91	3.34	-	-	-	-	-	-
System 04 (Diesel Engines)	0.015	0.015	0.015	0.069	0.24	0.27	0.083	9.02E-04	0.064	0.064	0.064	0.30	1.06	1.20	0.36	0.0040	170.96
Total	13.95	5.02	0.78	0.069	0.24	0.27	0.083	9.02E-04	61.10	21.97	3.41	0.30	1.06	1.20	0.36	0.0040	170.96

Combustion Detailed Emission Calculations

Emission Unit ID	Equipment Description	Operating Hours		Heat Input ¹		Fuel Usage			Power Output		Controls		Emissions					References
				(MMBtu)									Pollutant					
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Amount	Units	Type	Efficiency or Dry Volume	Pollutant	Factor	Unit	(lbs/hr)	(tons/yr)	
System 04 - Diesel Generator																		
TBD	Scale House Generator (CATERPILLAR XQ20, Serial No. CAT00000JGBE00823, 27 HP)	24	8760	0.238	2084.88	1.7	14892	gal/hr	16.56	kW	N/A	N/A	PM	8.82E-04	lb/kW-hr	0.015	0.064	40 CFR 1039.101 Table 1 - Tier 4 Exhaust Emission Standards After the 2014 Model Year
													PM ₁₀	8.82E-04	lb/kW-hr	0.015	0.064	40 CFR 1039.101 Table 1 - Tier 4 Exhaust Emission Standards After the 2014 Model Year
													PM _{2.5}	8.82E-04	lb/kW-hr	0.015	0.064	40 CFR 1039.101 Table 1 - Tier 4 Exhaust Emission Standards After the 2014 Model Year
													SO ₂	0.29	lb/MMBtu	0.069	0.30	AP-42 Table 3.3-1. Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines
													NO _x	0.017	lb/kW-hr	0.27	1.20	40 CFR 1039.101 Table 1 - Tier 4 Exhaust Emission Standards After the 2014 Model Year
													CO	0.015	lb/kW-hr	0.24	1.06	40 CFR 1039.101 Table 1 - Tier 4 Exhaust Emission Standards After the 2014 Model Year
													VOC	0.35	lb/MMBtu	0.083	0.36	AP-42 Table 3.3-1. Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines

Notes:
¹Based on diesel fuel heat content rating of 140,000 BTU/gal.

Combustion Detailed Emission Calculations - HAPs

Emission Unit ID	Unit Description	Operating Hours		Heat Input		Fuel Usage			Power Output		Controls		Emissions					References
				(MMBtu) ¹									Pollutant					
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Amount	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	(lbs/hr)	(tons/yr)	
System 04 - Diesel Generator																		
TBD	Scale House Generator (CATERPILLAR XQ20, Serial No CAT00000JGBE00823, 27 HP)	24	8760	0.24	2084.88	1.7	14892	gal/hr	16.56	kW	N/A	N/A	Benzene	9.33E-04	lb/MMBtu	2.22E-04	9.73E-04	AP-42 Table 3.3-2 Speciated Organic Compound Emission Factors for Uncontrolled Diesel Engines
													Toluene	4.09E-04		9.73E-05	4.26E-04	
													Xylenes	2.85E-04		6.78E-05	2.97E-04	
													1,3-Butadiene	3.91E-05		9.31E-06	4.08E-05	
													Formaldehyde	1.18E-03		2.81E-04	0.0012	
													Acetaldehyde	7.67E-04		1.83E-04	8.00E-04	
													Acrolein	9.25E-05		2.20E-05	9.64E-05	
													Naphthalene	8.48E-05		2.02E-05	8.84E-05	
													Total HAP	3.79E-03		9.02E-04	0.0040	

Combustion Detailed Emission Calculations - GHG

Emission Unit ID	Unit Description	Operating Hours		Heat Input (MMBtu) ¹		Fuel Usage			Power Output		Controls		Emissions						References		
				Daily	Annual								Hourly	Annual	Hourly	Annual	Units	Amount		Units	Type
		(lbs/hr)	(tons/yr)																		
System 04 - Diesel Generator																					
TBD	Scale House Generator (CATERPILLAR XQ20, Serial No. CAT00000JGBE00823, 27 HP)	24	8760	0.238	2084.88	1.7	14892	gal/hr	16.56	kW	N/A	N/A	CO ₂	164	1	lb/MMBtu	39.03	170.96	AP-42 Table 3.3-1 Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines		
													CH ₄	-	25	-	-	-			
													N ₂ O	-	298	-	-	-			
													CO ₂ -e				39.03	170.96			

SURFACE AREA DISTURBANCE FORM

1. Total Acres of the Facility Site: Juniper Ridge Quarry
2. Total Acres Disturbed: 98 acres
3. Add Surface Area Disturbance location as Township(s), Range(s) and Section
21 N, 25 E, 21
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: *Not Applicable*
 - ☐ Other Applicable BMPs: *Not Applicable*
 - ☒ If using water trucks, list how many water trucks are used and their capacity in gallons:
One 4,000 gallon water truck

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
1	312,970.77	4,393,794.18
2	313,091.94	4,393,763.66
3	313,201.09	4,393,686.88
4	313,226.07	4,393,572.19
5	313,209.42	4,393,464.89
6	313,186.29	4,393,321.51
7	313,193.69	4,393,223.46
8	313,158.54	4,393,165.19
9	313,079.92	4,393,135.59
10	312,912.50	4,393,157.79
11	312,841.27	4,393,213.29
12	312,715.47	4,393,385.34

PLANT AREA BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
1	312978.12	4393806.13
2	312715.00	4393391.00
3	312891.71	4393143.60
4	313172.76	4393217.84
5	313278.41	4393687.52
6	312978.12	4393806.13



UES™

NARRATIVE DESCRIPTION

**Joy Engineering
Juniper Ridge Quarry
Fernley, NV**

**New Class II Air Quality
Operating Permit
Application**

Prepared for:
Joy Engineering

Prepared By:
UES
6995 Sierra Center Parkway
Reno, NV 89511

September 2, 2026
Project No. A25173.00343.000



UES

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



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3. Facility Operations.....	1
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3.2 System 2 – Screen 3	2
3.3 System 3 – Screen 4	2
3.4 System 4 – Diesel Engine	2
4. Facility Surface Area Disturbance.....	2

FIGURES

Figure 1	Project Location Map
Figure 2	Facility Layout Map
Figure 3	System 1-2 Process Flow Diagram
Figure 3a	System 3 Process Flow Diagram



1. INTRODUCTION

Joy Engineering is submitting this application for a Class II Air Quality Operating Permit (AQOP) for the Juniper Ridge Quarry located in Fernley, Nevada. Joy currently has a crushing and screening plant permitted under a Class II General Air Quality Operating Permit (AQOP) for Temporary Construction Sources (Permit No. AP1442-2259.05; A0769) Change of Location Approval (COLA #3172). The COLA is set to expire on 12/30/2026 and Joy would like to permit the facility as a stationary source under a New Class II Operating Permit.

Joy Engineering is submitting this Nevada Division of Environmental Protection – Bureau of Air Pollution Control (NDEP-BAPC) Class II Air Quality Operating Permit Application to permit the crushing and screening equipment at the facility in accordance with NAC 445B.3453.

The information provided in this permit application includes all aspects of the Juniper Ridge facility design and operation that were known at the time the application was submitted.

2. FACILITY LAYOUT

The site location map is provided as Figure 1. The facility layout is displayed in Figure 2. The process flow diagrams for the facility operations are provided as Figures 3 and 3a.

3. FACILITY OPERATIONS

The configurations shown in Figures 3 and 3a represent the anticipated operational conditions; however, equipment may be rearranged depending on project needs. Please note, the permitted configuration represents the maximum number of transfers needed for the project and may be overconservative compared to actual operations.

Similar to how equipment is currently incorporated under the current COLA permit (COLA #3172), the UTM coordinates provided present the corner locations of the area that the equipment will be portable within. System 3 will be added to the facilities operations. Model runs were completed with the equipment placed at each of the different corners of the portable area as this was deemed to be the most conservative scenario to model the portable equipment within the area. Please note, the modeled scenarios are likely more conservative than actual operational conditions.

All equipment is requested to operate at a throughput of 300 tons per hour. No more than 2,628,000 tons of material is anticipated to be processed annually. All equipment will operate for a maximum of 24 hours per day. Wet dust suppression (water sprays) will be utilized on all transfers for particulate matter control.

3.1 SYSTEM 1 – CRUSHING AND SCREENING OPERATION

The primary crushing and screening operation will involve loading onsite material into different equipment to be crushed, screened, and discharged to stockpiles. System 1 includes one jaw crusher, one cone crusher, two screens and four stacker conveyors. For a detailed process flow diagram showing the specific equipment configuration, please see Figure 3.

The equipment associated with the screening and crushing system is subject to 40 CFR Part 60, Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants.



3.2 SYSTEM 2 – SCREEN 3

Screen 3 will involve loading onsite material into different equipment to be crushed, screened, and discharged to stockpiles. System 3 includes one screen and one stacker belt conveyor. For a detailed process flow diagram showing the specific equipment configuration, please see Figure 3.

3.3 SYSTEM 3 – SCREEN 4

Screen 4 will involve loading onsite material into different equipment to be crushed, screened, and discharged to stockpiles. System 3 includes one screen and one stacker belt conveyor. For a detailed process flow diagram showing the specific equipment configuration, please see Figure 3A.

3.4 SYSTEM 4 – DIESEL ENGINE

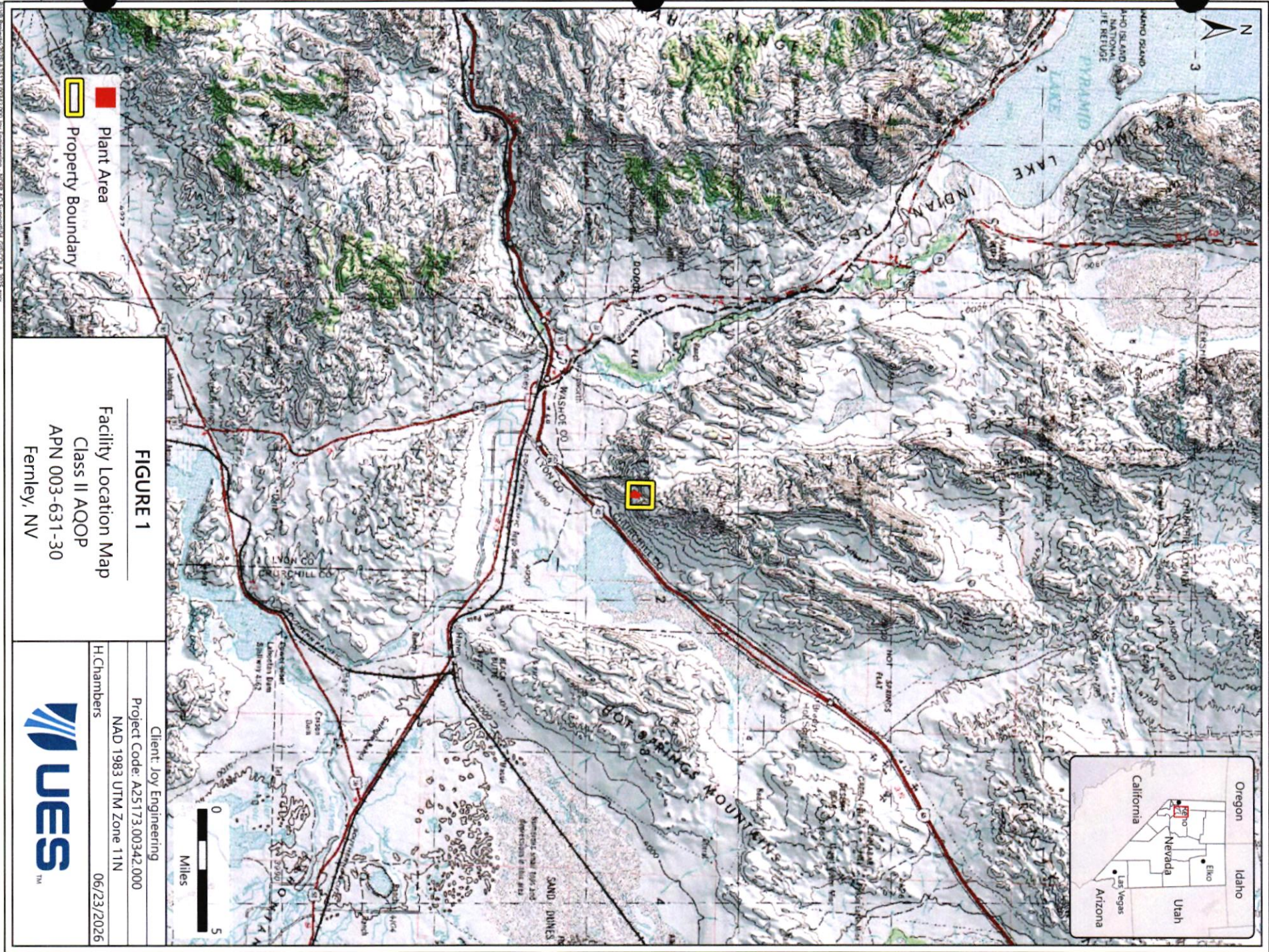
System 4 involves one 27 HP diesel engine (CATERPILLAR XQ20-4) to be used to power regular operations at the scale house. The generator is to be permitted for 24 hours per day and 8,760 hours per year. This generator will be subject to 40 CFR Part 60 Subpart IIII and 40 CFR Part 60 Subpart ZZZZ. Compliance with 40 CFR Part 60 Subpart ZZZZ will be demonstrated entirely through compliance with 40 CFR Part 60 Subpart IIII. Fuel consumption will be monitored by recording the hours of operation of the generator. The hours of operation will be multiplied by the maximum fuel consumption rates supplied by the manufacturer.

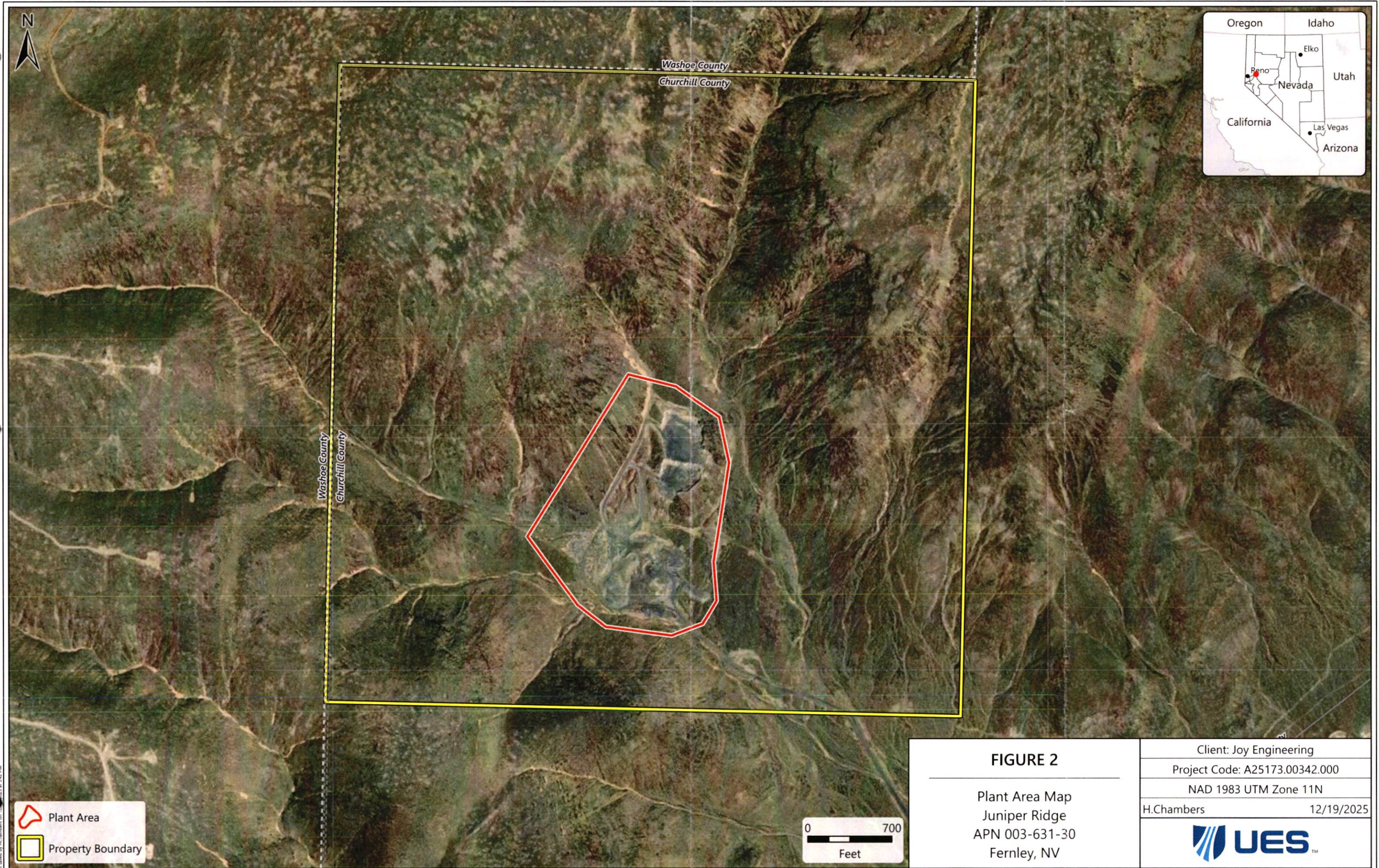
4. FACILITY SURFACE AREA DISTURBANCE

Please see the surface area disturbance form included herein.



FIGURES





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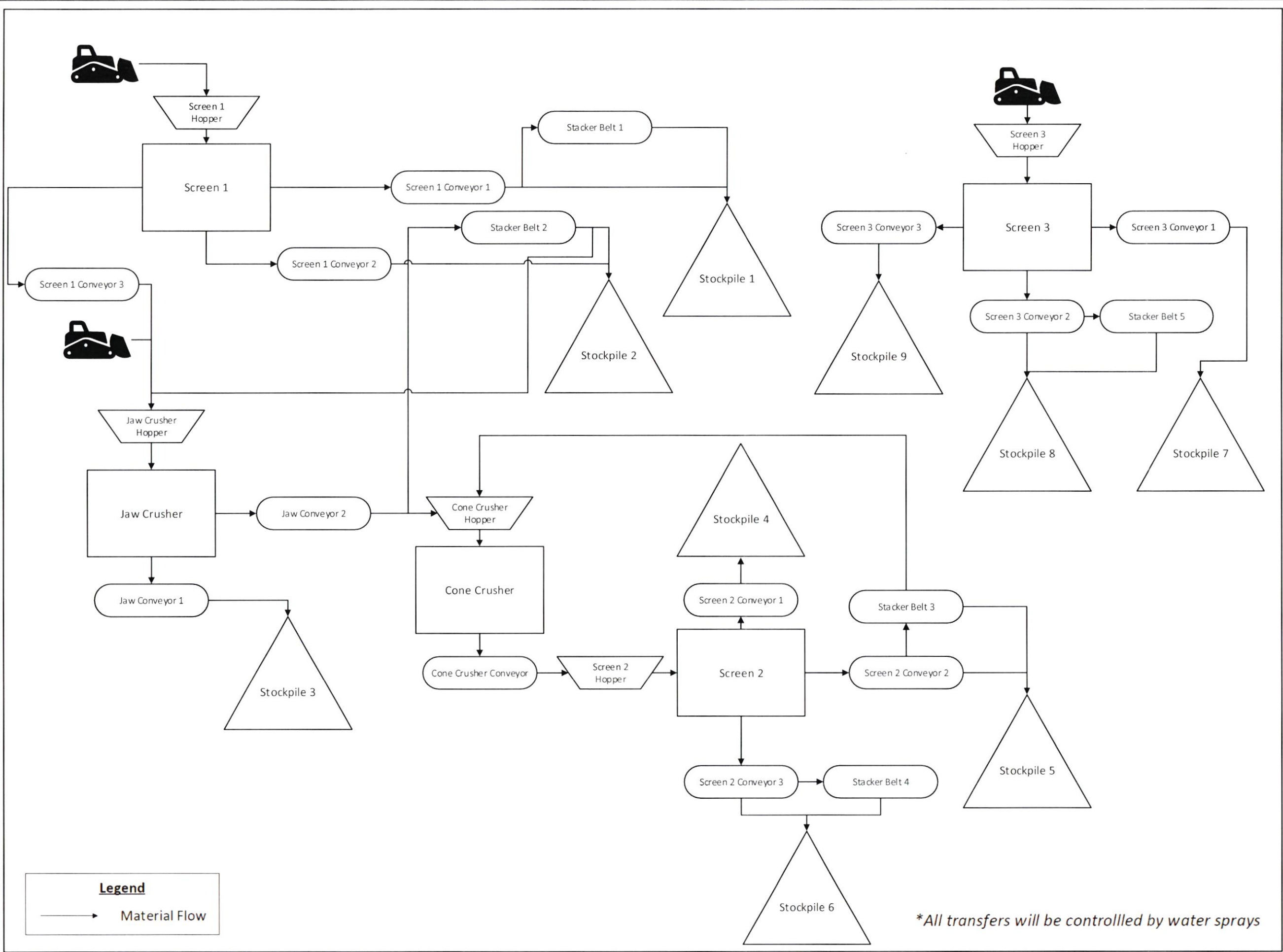


FIGURE 3

TITLE:
**Process Flow Diagram
-SHOWING-
Crushing & Screening
Operations
Fernley, NV**

JOB NO.:
Joy Engineering

DATE:
06/23/2026

FILE:
Fig 3 - Process Flow

COORDINATE SYSTEM:
N/A

REF:
DESIGNED CM

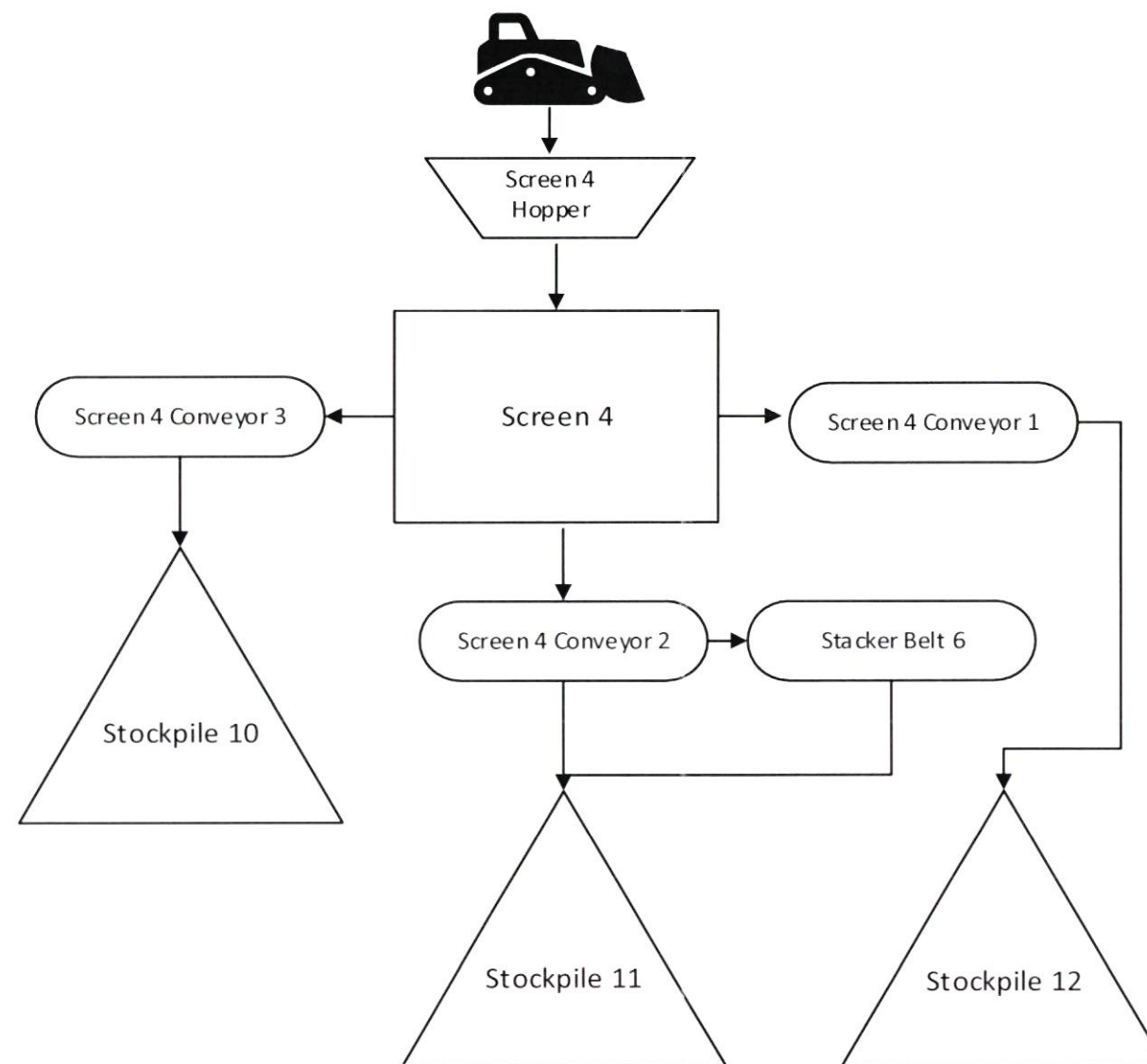
DRAWN CM

CHECKED JF

APPROVED JF

REVISION:
01





Legend

→ Material Flow

**All transfers will be controlled by water sprays*



FIGURE 3a

TITLE:
**Process Flow Diagram
-SHOWING-
Crushing & Screening
Operations
Fernley, NV**

JOB NO.:
Joy Engineering

DATE:
06/23/2026

FILE:
Fig 3a - Process Flow

COORDINATE SYSTEM:
N/A

REF:
DESIGNED CM

DRAWN CM

CHECKED JF

APPROVED JF

REVISION:
01



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*
- ☐ Manufacturer's Guarantee *Not Applicable*
- ☒ Facility-Wide Potential to Emit Table
- ☒ Surface Area Disturbance Form
- ☒ Plant Boundary Coordinates Form *if applicable*
- ☐ Plant Building Parameters Form *Not Applicable*
- ☒ Detailed Emission Calculations (for all emission units including IA units)
- ☐ Source Testing Data *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 UTM's), location of front gate, and fence line/site boundary (with UTM's))
- ☐ Environmental Evaluation (AERMOD Air Dispersion Modeling) *if applicable Not Applicable*
[NAC 445B.310]
- ☐ Manufacturer's Guarantee *Not Applicable*
- ☒ Equipment Specifications
- ☐ TANKs Modeling Output *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

Richard Joy, President

Print or Type Name and Title

Date

8/28/26