Application for Class I Air Quality Operating Permit

Nevada Power Company
Reid Gardner Generating Station
Facility ID No. A0379
Title V Permit Renewal
Permit No. AP 4911-0897

Prepared by
CH2M HILL, Inc. for
Nevada Division of Environmental Protection
Bureau of Air Pollution Control
Class I Permitting Branch
June 2008

GENERAL COMPANY INFORMATION

All applicants shall complete each item or explain in the space provided why no information is needed. Please specify "N/A" (Not Applicable) if necessary. The application will be returned to the applicant if it is deemed incomplete.

1. **COMPANY NAME AND ADDRESS THAT ARE TO APPEAR ON THE OPERATING PERMIT** [NAC 445B.295.1]:

Nevada Power Company-Reid Gardner Station Power Plant
(Name)
Reid Gardner Generating Station
(Address)
Moapa | Nevada | 89025
(City) | (State) | (Zip Code)

2. Owner's Name and Address [NAC 445B.295.1]:

Nevada Power Company-Reid Gardner Station Power Plant
(Name)

P.O. Box 98910, MS 30
(Address)

Las Vegas | Nevada | 89151
(City) | (State) | (Zip Code)

3. Source Name and Mailing Address, if different from #1 [NAC 445B.295.1]:

Nevada Power Company-Reid Gardner Station Power Plant
(Name)

P.O.Box 98910, MS 30
(Address)

Las Vegas | Nevada | 89025
(City) | (State) | (Zip Code)

4. Name and Address of Owner's Agent [NAC 445B.295.1]
Forrest Hawman
(Name)

P.O. Box 279
(Address)

Moapa | Nevada | 89025
(City) | (State) | (Zip Code)

5. Physical Location of Stationary Source [NAC 445B.295.8]: (if no physical address, describe location, e.g., 4 miles south of I-80 at xx Interchange)

M.D.B&M. HA218, California Wash. Northing 4,059.44 KM, Easting 711.62 KM, UTM Zone 11

Township(s) 15S Range(s) 66E Section(s) 5

GENERAL COMPANY INFORMATION (CONTINUED)

6. Plant Manager or Other Appropriate Contact [NAC 445B.295.1]:

David Sharp	Plant Director	
(Name)	(Title)	
P.O. Box 279		
(Address)		
Moapa	Nevada	89025
(City)	(State)	(Zip Code)
(702) 579-1301	(702) 579-1885	dsharp@nevp.com
(Telephone #)	(FAX #)	(E-mail address)

7. Responsible Official Name, Title and Address [NAC 445B.295.1]:

Roberto Denis	Corporate Senior Vice President, Energy Supply	
(Name)	(Title)	
6226 W. Sahara		
(Address)		
Las Vegas	Nevada	89146
(City)	(State)	(Zip Code)
(702) 402-5660	(702) 402-5300	rdenis@sierrapacific.com
(Telephone #)	(FAX #)	(E-mail address)

8. If records required under the operating permit will be kept at a location other than the source, specify that location [NAC 445B.295.7].

Tony D. Garcia		
(Name)		
P.O. Box 98910, MS 30		
(Address)		
Las Vegas	Nevada	89151
(City)	(State)	(Zip Code)

GENERAL COMPANY INFORMATION (CONTINUED)

9. This application is submitted for (please check appropriate boxes below):

☐ **A new Class I Operating Permit**

- ☐ This application is for a source subject to PSD requirements (40 CFR § 52.21).
- ☐ This application is for a source subject to the following NSPS requirements (40 CFR § 60):

_____

_____

_____

- ☐ This application is for a source subject to the following NESHAP requirements (40 CFR § 63):

_____

_____

_____

☐ **A significant modification of an existing Class I Operating Permit**

- ☐ This application is for a source subject to PSD requirements (40 CFR § 52.21).
- ☐ This application is for a source subject to the following NSPS requirements (40 CFR § 60):

_____

_____

_____

- ☐ This application is for a source subject to the following NESHAP requirements (40 CFR § 63):

_____

_____

_____

☒ **The renewal of an existing Class I Operating Permit**

- ☐ This application is for a source subject to PSD requirements (40 CFR § 52.21).
- ☐ This application is for a source subject to the following NSPS requirements (40 CFR § 60):

This application if for a source that has an emission unit (Unit 4) subject to PSD and NSPS 40 CFR 60.40 Da

_____

_____

- ☐ This application is for a source subject to the following NESHAP requirements (40 CFR § 63):

N/A

_____

_____

10. The application must contain, if applicable:
    a. For a proposed new major source, or a proposed significant modification to an existing stationary source which is not subject to the provisions of 40 CFR §52.21, include all information as required by NAC 445B.308 to 445B.313, inclusive [NAC 445B.3368.3(b)].
    b. For stationary sources subject to the provisions regarding new source review set forth in 42 USC §§7501 - 7515, inclusive (nonattainment areas), all information required by 42 USC §7503 [NAC 445B.3363.2(b)(3)].
    c. For a proposed new major source or a proposed significant modification to an existing stationary source that is subject to the provisions of 40 CFR §52.21, include all information required by 40 CFR §52.21 [NAC 445B.3368.3(a)].
    d. For a proposed new major source or a proposed significant modification to an existing stationary source which is subject to the requirements of 42 USC §7412 regarding hazardous air pollutants, include all information required by NAC 445B.308 to 445B.313, inclusive [NAC 445B.3368.3(c)].

11. Will the construction occur in more than one phase? ☐ Yes ☒ No

12. If the construction will occur in more than one phase, please provide the projected date of the commencement for each phase of construction:

Phase 1: _____

Phase 2: _____

Phase 3: _____

13. For a new source or modification of a stationary source, provide a Compliance Assurance Monitoring (CAM) plan for all emission units subject to the monitoring requirements of 40 CFR Part 64. For significant revisions provide a CAM plan for those emission units for which a significant revision to the operating permit is requested and which is required pursuant to the monitoring requirements of 40 CFR Part 64. If a CAM plan is not required, provide an explanation. [NAC 445B.295.8]

14. Compliance Plan/Certification
    a. Attach a compliance plan, signed by the responsible official, that contains the following with respect to all applicable requirements:
        (1) A narrative description of the compliance status of the stationary source with respect to all applicable requirements. [NAC 445B.3368.2(h)(1)]
        (2) A compliance certification by a responsible official stating that the stationary source will comply in a timely manner with any new applicable requirements that become effective during the operating permit term. Include a description of the test methods and the requirements for monitoring, enhanced monitoring, recordkeeping and reporting that will be used to comply with the new applicable requirements, fuel use, the rate of production, raw materials, and operating schedules which are used to determine the compliance status of the stationary source. [NAC 445B.3368.2(h)(2)]
        (3) If the stationary source is not in compliance with any applicable requirements at the time the operating permit is issued, include a narrative description and a proposed schedule for achieving compliance which includes remedial measures, an enforceable sequence of actions with milestones, and a schedule to submit certified progress reports every six months. This schedule must be at least as stringent as that contained in any consent decree rendered by a federal court, a court of this state, or an administrative order which applies to the stationary source. [NAC 445B.3368.2(h)(3))III)]
    b. A schedule for submission of compliance certifications during the term of the operating permit, to be submitted annually or more frequently to the Bureau of Air Pollution Control. [NAC 445B.3368.2(i)(3)]

15. **Application Submittal:**
    Please remove the cover page, Table of Contents and General Information page and all Attachments of the application packet. Submit the remainder of the application packet as your formal application. This should consist of, at a minimum, the Class I-B Application cover page, the general Company Information, and Appendices 1 through 10.

Appendix 1

EMISSION UNIT APPLICATION FORMS

(Industrial Process/Combustion Equipment/Storage Silo/ Liquid Storage Tank/ Surface Area Disturbance)

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Coal-Fired Steam Boiler with Natural Gas Igniters (Unit 1)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Foster Wheeler

d. Model number 5757 Serial number 36-4109 *Equip. number B-01

e. Date equipment manufactured: 1965

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.35 km meters N; 711.68 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L 33'5" W 52'5" H 500

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) _____
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) 1,215 million Btu/hr
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 8760

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	294,737 cubic feet	1060 Btu/scf	<1%		
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)	76.4	9,000 Btu/lb	16%	0.540%				

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Low NOx coal burners and overfired air	Baghouse (Pulse-Jet Fabric Filter)
Pollutant(s) Controlled	NOx	Particulate Matter PM
Manufacturer	Foster Wheeler	Hamon
Manufacturer's Guarantee (see Note 1)	0.46 mmbtu/hr	0.05 lb/mmbtu
Stack height (feet from ground level)	200	200
Stack inside diameter (feet)	13.464	13.464
Temperature (°F) at design capacity	300	300
Stack exit velocity (feet per second)	58.5	58.5
Gas volume flow rate: actual cubic feet per minute	500,000	500,000
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	NA

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #3	Control #4
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Wet Scrubber	
Pollutant(s) Controlled	SO2	
Manufacturer	Combustion Equipment Associates	
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)	200	
Stack inside diameter (feet)	13.464	
Temperature (°F) at design capacity	300	
Stack exit velocity (feet per second)	58.5	
Gas volume flow rate: actual cubic feet per minute	500,000	
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Emissions for this unit will be monitored by CEMS for SO2 as required by the source's 1980 PSD permit. NOx will be monitored as required by the Acid Rain Program.

Emissions for PM, PM10, and SO2 will be monitored by annual stack tests using Method 5, Method 201A and 202, and Method 6 or 6C respectively.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

Routine inspections will be performed on all control devices.

Control devices will be operated and maintained in accordance with standard facility work practices.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits (Unit 1)

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.08 lb/MMBtu		
Particulates as PM_{10}	0.08 lb/MMBtu		
Sulfur Dioxide	0.37 lb/MMBtu 3 hr rolling avg		
Carbon Monoxide	1000		New limit requested by NDEP to demonstrate compliance with the NAAQS.
Oxides of Nitrogen	0.46 lb/mmbtu 12-month rolling Avg		
Volatile Organic Compounds	430		New limit requested by NDEP to demonstrate compliance with the NAAQS.
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Coal-Fired Steam Boiler with Natural Gas Igniters (Unit 2)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Foster Wheeler

d. Model number 2-79-2106 Serial number 08-6374 *Equip. number B-02

e. Date equipment manufactured: 1968

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.48 km meters N; 711.55 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L 33'5" W 52'5" H 500

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) _____
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) 1,215 million Btu/hr
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 8760

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	394,737 cubic feet	1060 Btu/scf	<1%		
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)	77.6	9,000	16%	0.540%				

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Low NOx coal burners and overfired air	Baghouse (Pulse-Jet Fabric Filter)
Pollutant(s) Controlled	NOx	Particulate Matter PM
Manufacturer	Foster Wheeler	Hamon
Manufacturer's Guarantee (see Note 1)	0.46 mmbtu/hr	0.05 lb/mmbtu
Stack height (feet from ground level)	200	200
Stack inside diameter (feet)	13.464	13.464
Temperature (°F) at design capacity	300	300
Stack exit velocity (feet per second)	58.5	58.5
Gas volume flow rate: actual cubic feet per minute	500,000	500,000
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	NA

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #4
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Wet Scrubber.	
Pollutant(s) Controlled	SO2	
Manufacturer	Foster Wheeler	
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)	200	
Stack inside diameter (feet)	13.464	
Temperature (°F) at design capacity	300	
Stack exit velocity (feet per second)	58.5	
Gas volume flow rate: actual cubic feet per minute	500,000	
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Emissions for this unit will be monitored by CEMS for SO2 as required by the 1980 PSD permit. NOx will be monitored as required by the Acid Rain Program.

Emissions for PM, PM10, and SO2 will be monitored by annual stack tests using Method 5, Method 201A and 202, and Method 6 or 6C respectively.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

Routine inspections will be performed on all control devices.

Control devices will be operated and maintained in accordance with standard facility work practices.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits (Unit 2)

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.08 lb/MMBtu		
Particulates as PM_{10}	0.08 lb/MMBtu		
Sulfur Dioxide	0.37 lb/MMBtu 3 hr rolling avg		
Carbon Monoxide	1000		New limit requested by NDEP to demonstrate compliance with the NAAQS. (Not yet confirmed by modeling.)
Oxides of Nitrogen	0.46 lb/mmbtu 12 month rolling avg		
Volatile Organic Compounds	430		New limit requested by NDEP to demonstrate compliance with the NAAQS. (Not yet confirmed by modeling.)
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

9**Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal-Fired Steam Boiler with Natural Gas Igniters (Unit 3)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Foster Wheeler

d. Model number 279-1554 Serial number 08-1544 *Equip. number B-03

e. Date equipment manufactured: 1976

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.28 km meters N; 711.68 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L 33'5" W 52'5" H 500

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) _____
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) 1,237 million Btu/hr
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 8760

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	294,737 cubic feet	1060 Btu/scf	<1%		
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)	80.0	9,000 Btu/lb	16%	0.540%				

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Low NOx coal burners and overfired air	Baghouse (Pulse-Jet Fabric Filter)
Pollutant(s) Controlled	NOx	Particulate Matter PM
Manufacturer	Foster Wheeler	Hamon
Manufacturer's Guarantee (see Note 1)	0.46 mmbtu/hr	0.05 lb/mmbtu
Stack height (feet from ground level)	270	270
Stack inside diameter (feet)	12.888	12.888
Temperature (°F) at design capacity	300	300
Stack exit velocity (feet per second)	63.88	63.88
Gas volume flow rate: actual cubic feet per minute	500,000	500,000
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	NA

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #3	Control #4
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Wet Scrubber	
Pollutant(s) Controlled	SO2	
Manufacturer	Combustion Equipment Associates	
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)	270	
Stack inside diameter (feet)	12.888	
Temperature (°F) at design capacity	300	
Stack exit velocity (feet per second)	63.88	
Gas volume flow rate: actual cubic feet per minute	500,000	
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Emissions for this unit will be monitored by CEMS for SO2 and NOx as required by Subpart D rules and the Acid Rain Program.

Emissions for PM, PM10, and SO2 will be monitored by annual stack tests using Method 5, Method 201A and 202, and Method 6 or 6C respectively.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

Routine inspections will be performed on all control devices.

Control devices will be operated and maintained in accordance with standard facility work practices.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits (Unit 3)

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.08 lb/MMBtu		
Particulates as PM_{10}	0.08 lb/MMBtu		
Sulfur Dioxide	0.37 lb/MMBtu 3hr rolling avg		
Carbon Monoxide	1200		New limit requested by NDEP to demonstrate compliance with the NAAQS. (Not yet confirmed by modeling.)
Oxides of Nitrogen	0.46 lb/mmbtu 12 month rolling avg		See Appendix 6
Volatile Organic Compounds	510		New limit requested by NDEP to demonstrate compliance with the NAAQS. (Not yet confirmed by modeling.)
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal-Fired Steam Boiler with Natural GAs Igniters (Unit 4)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Forest Wheeler

d. Model number Custom Built Serial number 12A6361-1 *Equip. number B-04

e. Date equipment manufactured: 1983

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.30 km meters N; 711.629 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L 33'5" W 52'5" H 500

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) _____
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) 2,956 MMBtu/yr
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 8,760

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	900,000 cubic feet	1060 Btu/scf	<1%		
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)	206	8160 Btu/lb	16%	0.540%				

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	ROFA (Rotating Opposed Fired Air)	Baghouse
Pollutant(s) Controlled	NOx	PM-10
Manufacturer	MoboTecUSA	
Manufacturer's Guarantee (see Note 1)	0.22 lb/MMBtu	
Stack height (feet from ground level)	500 (no change)	500 (no change)
Stack inside diameter (feet)	21.194 (no change)	21.194 (no change)
Temperature (°F) at design capacity	140-150 (no change)	140-150 (no change)
Stack exit velocity (feet per second)	54.99 (no change)	54.99 (no change)
Gas volume flow rate: actual cubic feet per minute	1,164,000 (no change)	1,164,000 (no change)
Gas volume flow rate: dry standard cubic feet per minute	No Change	No Change
Unusual stack characteristics (e.g., raincap, horizontal discharge)	No Change	No Change

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #4
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Wet Scrubber	Low Nox Burners and Overfire Air
Pollutant(s) Controlled	SO2	NOx
Manufacturer	Combustion Equipment Associates	Foster Wheeler
Manufacturer's Guarantee (see Note 1)		0.46 lb/MMBtu
Stack height (feet from ground level)	500 (no change)	500 (no change)
Stack inside diameter (feet)	21.194 (no change)	21.194 (no change)
Temperature (°F) at design capacity	140-150 (no change)	140-150 (no change)
Stack exit velocity (feet per second)	54.99 (no change)	54.99 (no change)
Gas volume flow rate: actual cubic feet per minute	1,164,000 (no change)	1,164,000 (no change)
Gas volume flow rate: dry standard cubic feet per minute	No Change	No Change
Unusual stack characteristics (e.g., raincap, horizontal discharge)	No Change	No Change

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Emissions from this unit will be monitored by CEMS for SO2 as required by Subpart Da rules, and 1980 PSD permit, and the Acid Rain Program. NOx will be monitored as required by Subpart Da rules and the Acid Rain Program.

Emissions for PM, PM10, and SO2 will be monitored by annual stack tests using Method 5, Method 201A and 202, and Method 6 or 6C respectively.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

ROFA will be maintained and operated in accordance with standard facility work practices.

Routine inspections will be performed on all control devices.

Control devices will be operated and maintained in accordance with standard facility work practices.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits (Unit 4)

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.03 lb/mmbtu		
Particulates as PM_{10}	0.03 lb/mmbtu		
Sulfur Dioxide	0.29 lb/mmbtu 30 day rolling avg		
Carbon Monoxide	12,000		New limit requested by NDEP to demonstrate compliance with the NAAQS. (Not yet confirmed by modeling.)
Oxides of Nitrogen	0.24 lb/mmbtu 12-month rolling		
Volatile Organic Compounds	910		New limit requested by NDEP to demonstrate compliance with the NAAQS. (Not yet confirmed by modeling.)
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit # 1 Cooling Tower (CT-01)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Marley

d. Model number None (Custom) Serial number None *Equip. number None

e. Date equipment manufactured: June 1984

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059.65 km meters N; 711.482 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☐√)

j. Basic equipment dimensions (feet): L_____ W_____ H_____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 63,800 gallons per minute

b. Requested operating rate (tons per hour)* 63,800 gallons per minute

c. Requested operating time: (time of day)* Midnight to Midnight

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) n/a

e. Total hours required to process batch or charge (if applicable) n/a

f. Maximum operating rate (tons per year) 63,800 gallons per minute

g. Requested operating rate (tons per year)* 63,800 gallons per minute

f. Type of material processed Water

g. Minimum moisture content 100 %

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel **(NONE)**	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel (NONE)	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	n/a	
Pollutant(s) Controlled	n/a	
Manufacturer	n/a	
Manufacturer's Guarantee (see Note 2)	n/a	
Stack height (feet from ground level)	n/a	
Stack inside diameter (feet)	n/a	
Temperature (°F) at design capacity	n/a	
Stack exit velocity (feet per second)	n/a	
Gas volume flow rate: Actual cubic feet per minute	n/a	
Gas volume flow rate: Dry standard cubic feet per minute	n/a	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	n/a	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Mist drift eliminator	
Pollutant(s) Controlled	PM-10	
Manufacturer	Component Towers	
Manufacturer's Guarantee (see Note 1)	0.0005 % drift rate	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.		

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Quarterly total dissolved solids (TDS) monitoring using EPA Method 160.1 DNS with TDS not to exceed 8,500 ppm.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.

Unit will be run following manufacturer's recommendations and best engineering practices.

There are no HAPS being emitted from the Source.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.36	5.94	AP-42 Table 13.4-1 (0.0005 lb/10^{3} gal)
Particulates as PM_{10}	1.36	5.94	AP-42 Table 13.4-1 (0.0005 lb/10^{3} gal)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit # 3 Cooling Tower (CT-03)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Marley

d. Model number None (Custom) Serial number None *Equip. number None

e. Date equipment manufactured: June 1984

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4") ☐ Secondary (< 4" but ≥ 1") ☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059.65 km meters N; 711.34 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☐√)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 63,800 gallons per minute

b. Requested operating rate (tons per hour)* 63,800 gallons per minute

c. Requested operating time: (time of day)* Midnight to Midnight

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) n/a

e. Total hours required to process batch or charge (if applicable) n/a

f. Maximum operating rate (tons per year) 63,800 gallons per minute

g. Requested operating rate (tons per year)* 63,800 gallons per minute

f. Type of material processed Water

g. Minimum moisture content 100 %

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel **(NONE)**	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel (NONE)	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	n/a	
Pollutant(s) Controlled	n/a	
Manufacturer	n/a	
Manufacturer's Guarantee (see Note 2)	n/a	
Stack height (feet from ground level)	n/a	
Stack inside diameter (feet)	n/a	
Temperature (°F) at design capacity	n/a	
Stack exit velocity (feet per second)	n/a	
Gas volume flow rate: Actual cubic feet per minute	n/a	
Gas volume flow rate: Dry standard cubic feet per minute	n/a	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	n/a	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Mist drift eliminator	
Pollutant(s) Controlled	PM-10	
Manufacturer	Component Towers	
Manufacturer's Guarantee (see Note 1)	0.0005 % drift rate	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.		

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Quarterly total dissolved solids (TDS) monitoring using EPA Method 160.1 DNS with TDS not to exceed 8,500 ppm.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.

Unit will be run following manufacturer's recommendations and best engineering practices.

There are no HAPS being emitted from the Source

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.36	5.94	AP-42 Table 13.4-1 (0.0005 lb/10^{3} ga)l
Particulates as PM_{10}	1.36	5.94	AP-42 Table 13.4-1 (0.0005 lb/10^{3} gal)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit # 4 Cooling Tower (CT-04)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Marley

d. Model number None (Custom) Serial number None *Equip. number None

e. Date equipment manufactured: June 1984

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4") ☐ Secondary (< 4" but ≥ 1") ☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059.19 km meters N; 711.598 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☐√)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 131,000 gallons per minute

b. Requested operating rate (tons per hour)* 131,000 gallons per minute

c. Requested operating time: (time of day)* Midnight to Midnight

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) n/a

e. Total hours required to process batch or charge (if applicable) n/a

f. Maximum operating rate (tons per year) 131,000 gallons per minute

g. Requested operating rate (tons per year)* 131,000 gallons per minute

f. Type of material processed Water

g. Minimum moisture content 100 %

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel **(NONE)**	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel (NONE)	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	n/a	
Pollutant(s) Controlled	n/a	
Manufacturer	n/a	
Manufacturer's Guarantee (see Note 2)	n/a	
Stack height (feet from ground level)	n/a	
Stack inside diameter (feet)	n/a	
Temperature (°F) at design capacity	n/a	
Stack exit velocity (feet per second)	n/a	
Gas volume flow rate: Actual cubic feet per minute	n/a	
Gas volume flow rate: Dry standard cubic feet per minute	n/a	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	n/a	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Mist drift eliminator	
Pollutant(s) Controlled	PM-10	
Manufacturer	Marley	
Manufacturer's Guarantee (see Note 1)	0.0023 % drift rate	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.		

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Quarterly total dissolved solids (TDS) monitoring using EPA Method 160.1 DNS with TDS not to exceed 8,500 ppm.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.

Unit will be run following manufacturer's recommendations and best engineering practices.

There are no HAPS being emitted from the Source

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	12.8	56.1	AP-42 Table 13.4-1 (0.005 lb/10^{3} gal)
Particulates as PM_{10}	12.8	56.1	AP-42 Table 13.4-1 (0.005 lb/10^{3} gal)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal Handling - Coal Train Unloading into Hoppers (PF1.001a)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059535 meters N; 711680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 2,500

b. Requested operating rate (tons per hour)* 2,500

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) _____

e. Total hours required to process batch or charge (if applicable) 6,700

f. Maximum operating rate (tons per year) 2,417,690

g. Requested operating rate (tons per year) 2,417,690

h. Type of material processed coal

i. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	NA	
Pollutant(s) Controlled	NA	
Manufacturer	NA	
Manufacturer's Guarantee (see Note 2)	NA	
Stack height (feet from ground level)	NA	
Stack inside diameter (feet)	NA	
Temperature (°F) at design capacity	NA	
Stack exit velocity (feet per second)	NA	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	NA	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water sprays with surfactants	
Pollutant(s) Controlled	PM_{10}	PM_{10}	
Manufacturer	n/a	McNalley- Pittsburgh	
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. Method 22/Method 9 every 2 calendar weeks.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.276	0.134	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.131	0.063	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.1E-05	8.3E-06	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ $(4.10P^{0.67})$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(2,500)^0.67 E = 775.18	Record throughput	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 $(55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and / or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal Handling - Transfer Tower 1 (PF1.001b)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059535 meters N; 711680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 2,500

b. Requested operating rate (tons per hour)* 2,500

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) _____

e. Total hours required to process batch or charge (if applicable) 6,700

f. Maximum operating rate (tons per year) 2,417,690

g. Requested operating rate (tons per year) 2,417,690

h. Type of material processed coal

i. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	NA	
Pollutant(s) Controlled	NA	
Manufacturer	NA	
Manufacturer's Guarantee (see Note 2)	NA	
Stack height (feet from ground level)	NA	
Stack inside diameter (feet)	NA	
Temperature (°F) at design capacity	NA	
Stack exit velocity (feet per second)	NA	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	NA	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water sprays with surfactants	Dust bags*
Pollutant(s) Controlled	PM_{10}	PM_{10}	PM_{10}
Manufacturer	n/a	McNalley- Pittsburgh	Martin
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	99.9% control efficiency
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

3. Periodic maintenance will be conducted as specified by the manufacturer.
4. Method 22/Method 9 every 2 calendar weeks.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

2. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.0276	0.0134	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.0131	0.0063	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	4.3E-07	3.3E-07	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ $(4.10P^{0.67})$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(2,500)^0.67 E = 775.18	Record throughput	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 $(55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and / or Method 9	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal Handling - Transfer Tower 2 (PF1.001c)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059535 meters N; 711680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 2,500

b. Requested operating rate (tons per hour)* 2,500

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) _____

e. Total hours required to process batch or charge (if applicable) 6,700

f. Maximum operating rate (tons per year) 2,417,690

g. Requested operating rate (tons per year) 2,417,690

h. Type of material processed coal

i. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	NA	
Pollutant(s) Controlled	NA	
Manufacturer	NA	
Manufacturer's Guarantee (see Note 2)	NA	
Stack height (feet from ground level)	NA	
Stack inside diameter (feet)	NA	
Temperature (°F) at design capacity	NA	
Stack exit velocity (feet per second)	NA	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	NA	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water sprays with surfactants	Dust bags*
Pollutant(s) Controlled	PM_{10}	PM_{10}	PM_{10}
Manufacturer	n/a	McNalley- Pittsburgh	Martin
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	99.9% control efficiency
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. Method 22/Method 9 every 2 calendar weeks.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.0276	0.0134	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.0134	0.0063	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	4.3E-07	3.3E-07	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ $(4.10P^{0.67})$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(2,500)^0.67 E = 775.18	Record throughput	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 $(55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and / or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal Handling - C Stackout (PF1.001d)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059535 meters N; 711680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 2,500

b. Requested operating rate (tons per hour)* 2,500

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) _____

e. Total hours required to process batch or charge (if applicable) 6,700

f. Maximum operating rate (tons per year) 2,417,690

g. Requested operating rate (tons per year) 2,417,690

h. Type of material processed coal

i. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	NA	
Pollutant(s) Controlled	NA	
Manufacturer	NA	
Manufacturer's Guarantee (see Note 2)	NA	
Stack height (feet from ground level)	NA	
Stack inside diameter (feet)	NA	
Temperature (°F) at design capacity	NA	
Stack exit velocity (feet per second)	NA	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	NA	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water Sprays/Surfactant	
Pollutant(s) Controlled	PM_{10}	PM10	
Manufacturer	n/a	n/a	
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. Method 22/Method 9 every 2 calendar weeks.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.276	0.134	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.131	0.063	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.1E-04	4.4E-05	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ $(4.10P^{0.67})$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(2,500)^0.67 E = 775.18	Record throughput	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 $(55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and / or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal Handling - G Stackout (PF1.001e)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059535 meters N; 711680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 2,500

b. Requested operating rate (tons per hour)* 2,500

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) _____

e. Total hours required to process batch or charge (if applicable) 6,700

f. Maximum operating rate (tons per year) 2,417,690

g. Requested operating rate (tons per year) 2,417,690

h. Type of material processed coal

i. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	NA	
Pollutant(s) Controlled	NA	
Manufacturer	NA	
Manufacturer's Guarantee (see Note 2)	NA	
Stack height (feet from ground level)	NA	
Stack inside diameter (feet)	NA	
Temperature (°F) at design capacity	NA	
Stack exit velocity (feet per second)	NA	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	NA	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water Sprays/Surfactant	
Pollutant(s) Controlled	PM_{10}	PM10	
Manufacturer	n/a	n/a	
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. Method 22/Method 9 every 2 calendar weeks.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
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CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.276	0.134	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.131	0.063	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.1E-04	4.4E-05	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ $(4.10P^{0.67})$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(2,500)^0.67 E = 775.18	Record throughput	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 $(55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (2,500)^0.11] – 40 E = 90.06	Record throughput	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and / or Method 9	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Coal Handling - N Stackout (PF1.001f)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059535 meters N; 711680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 2,500

b. Requested operating rate (tons per hour)* 2,500

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable) _____

e. Total hours required to process batch or charge (if applicable) 6,700

f. Maximum operating rate (tons per year) 2,417,690

g. Requested operating rate (tons per year) 2,417,690

h. Type of material processed coal

i. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	NA	
Pollutant(s) Controlled	NA	
Manufacturer	NA	
Manufacturer's Guarantee (see Note 2)	NA	
Stack height (feet from ground level)	NA	
Stack inside diameter (feet)	NA	
Temperature (°F) at design capacity	NA	
Stack exit velocity (feet per second)	NA	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	NA	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water Sprays/Surfactant	
Pollutant(s) Controlled	PM_{10}	PM_{10}	
Manufacturer	n/a	n/a	
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. Method 22/Method 9 every 2 calendar weeks.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.276	0.134	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.131	0.063	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	9.1E-05	3.9E-05	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.
[1]A list of Hazardous Air Pollutants is contained in Attachment 4.
[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (2,100)^0.11] – 40 E = 87.59	Record throughput	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(2,100)^0.67 E = 689.72	Record throughput	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (2,100)^0.11] – 40 E = 87.59	Record throughput	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and / or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit #4 Coal Handling - Transfer Tower 3 (PF1.002a)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (∃ 4")
☐ Secondary (< 4" but ∃ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059100 meters N; 711693 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 1,400

b. Requested operating rate (tons per hour)* 1,400

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable)

e. Total hours required to process batch or charge (if applicable) _____

f. Maximum operating rate (tons per year) 1,078,943

g. Requested operating rate (tons per year)* 1,078,943

f. Type of material processed coal

g. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: Actual cubic feet per minute		
Gas volume flow rate: Dry standard cubic feet per minute		
Unusual stack characteristics (e.g. raincap, horizontal discharge)		

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)	Enclosure	Water Sprays	Dust bags*
Pollutant(s) Controlled	PM_{10}	PM_{10}	PM_{10}
Manufacturer	n/a	McNalley- Pittsburgh	Martin
Manufacturer's Guarantee (see Note 2)	75% control efficiency	90% control efficiency	99.9% control efficiency
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.			

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.016	0.006	AP-42 Sections 13.2.4 (see emissions inventory for details)
Particulates as PM_{10}	0.007	0.003	AP-42 Sections 13.2.4 (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	6.2E-07	6.2E-07	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (1,800)^0.11] – 40 E = 85.44	Record throughput & flow	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(1,800)^0.67 E = 622.04	Record throughput & flow	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (1,800)^0.11] – 40 E = 85.44	Record throughput & flow	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and/or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit #4 Coal Handling - O1 (AB) & O2 (AB) Hopper (PF1.002b)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (∃ 4")
☐ Secondary (< 4" but ∃ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059100 meters N; 711693 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 1,400

b. Requested operating rate (tons per hour)* 1,400

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable)

e. Total hours required to process batch or charge (if applicable) _____

f. Maximum operating rate (tons per year) 1,078,943

g. Requested operating rate (tons per year)* 1,078,943

f. Type of material processed coal

g. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Dust Extractor	
Pollutant(s) Controlled	PM_{10}	
Manufacturer	Engart	
Manufacturer's Guarantee (see Note 2)	0.0037 gr/ft^3	
Stack height (feet from ground level)	14	
Stack inside diameter (feet)	3.0	
Temperature (°F) at design capacity	Ambient	
Stack exit velocity (feet per second)	84.90	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	36,000	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2	Control #3
Type of Control (See Note 1)			
Pollutant(s) Controlled			
Manufacturer			
Manufacturer's Guarantee (see Note 2)			

Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Dust Bags control efficiencies.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.14	5.00	Grain loading (0.0037 gr/ft^3) and flow (36,000 cfm) (see emissions inventory for details)
Particulates as PM_{10}	1.14	5.00	Grain loading (0.0037 gr/ft^3) and flow (36,000 cfm) (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.9E-04	8.2E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (1,800)^0.11] – 40 E = 85.44	Record throughput & flow	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(1,800)^0.67 E = 622.04	Record throughput & flow	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (1,800)^0.11] – 40 E = 85.44	Record throughput & flow	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and/or Method 9	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit 1-3 Coal Handling - D Hopper (PF.TBD)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059453 meters N; 711565 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 1,650

b. Requested operating rate (tons per hour)* 1,650

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable)

e. Total hours required to process batch or charge (if applicable) _____

f. Maximum operating rate (tons per year) 1,338,458

g. Requested operating rate (tons per year) 1,338,458

f. Type of material processed coal

g. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Dust Extractors	
Pollutant(s) Controlled	PM_{10}	
Manufacturer	Engart	
Manufacturer's Guarantee (see Note 2)	0.0037 gr/ft^3	
Stack height (feet from ground level)	7.0	
Stack inside diameter (feet)	2.0	
Temperature (°F) at design capacity	Ambient	
Stack exit velocity (feet per second)	68.98	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	13,000	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		

Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Engart control efficiencies. They apply to the non-stack components of the source system.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.41	1.81	Grain load x flow (see emissions inventory for details)
Particulates as PM_{10}	0.41	1.81	Grain load x flow (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	6.8E-05	3.0E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (1,650)^0.11] – 40 E = 84.25	Record throughput & flow	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(1,650)^0.67 E = 586.81	Record throughput & flow	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (1,650)^0.11] – 40 E = 84.25	Record throughput & flow	In compliance

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and/or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit 1-3 Coal Handling - H1 & H2 Hopper (PF.TBD)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. For crushers: size output setting, check one: ☐ Primary (≥ 4")
☐ Secondary (< 4" but ≥ 1")
☐ Tertiary (< 1")

h. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

i. UTM Coordinates 4059453 meters N; 711565 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

j. Basic equipment dimensions (feet): L _____ W _____ H _____

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design capacity (tons per hour) 1,650

b. Requested operating rate (tons per hour)* 1,650

c. Requested operating time: (time of day)* 00:00 to 24:00

Hours per day 24 Days per year 365

d. Batch load or charge weight (tons) (if applicable)

e. Total hours required to process batch or charge (if applicable) _____

f. Maximum operating rate (tons per year) 1,338,458

g. Requested operating rate (tons per year) 1,338,458

f. Type of material processed coal

g. Minimum moisture content 4%

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage - NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section *must* be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Dust Extractors	
Pollutant(s) Controlled	PM_{10}	
Manufacturer	Engart	
Manufacturer's Guarantee (see Note 2)	0.0037 gr/ft^3	
Stack height (feet from ground level)	14.0	
Stack inside diameter (feet)	3.0	
Temperature (°F) at design capacity	Ambient	
Stack exit velocity (feet per second)	84.90	
Gas volume flow rate: Actual cubic feet per minute	NA	
Gas volume flow rate: Dry standard cubic feet per minute	36,000	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	NA	

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.		

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

* The enclosure and water spray controls were not added to the Engart control efficiencies. They apply to the non-stack components of the source system.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices. 2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.14	5.00	Grain load x flow (see emissions inventory for details)
Particulates as PM_{10}	1.14	5.00	Grain load x flow (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.9E-04	8.2E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (1,650)^0.11] – 40 E = 84.25	Record throughput & flow	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(1,650)^0.67 E = 586.81	Record throughput & flow	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (1,650)^0.11] – 40 E = 84.25	Record throughput & flow	In compliance

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and/or Method 9	In compliance

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

STORAGE SILO
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit #1- #3 Coal Silos (C-01) (S2.010 & PF1.003)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number 512K-8 Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059479 meters N; 711494 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 1 - Equipment Description (Continued)

Components of this source emission include:

1. Unit 1-3 Loading into the Coal Silos (E, M, K constrained by E Tripper & J)
2. Engart 123A dust extractor
3. Engart 123B dust extractor

There are 2 Engart dust extractors that control the release of emissions from this source.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 1,650 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 1,650

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) 300

e. Method of unloading (screw auger, etc.) feeder conveyor in enclosed piping

f. Continuous or batch discharge Loading=batch Unloading =continuous

g. Requested unloading rate (tons per hour) 152.8

Requested unloading rate (tons per year) 1,338,458

h. Requested unloading time: Hours per day 24 Time of day 00:00 to 24:00

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) coal

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)	Dust Extractors	
Pollutant(s) Controlled	PM_{10}	
Manufacturer	Engart	
Manufacturer's Guarantee (see Note 2)	0.0037 gr/ft^3	
Stack height (feet from ground level)	120	
Stack inside diameter (feet)	2.75	
Temperature (°F) at design capacity	Ambient	
Stack exit velocity (feet per second)	59.64	
Gas volume flow rate: actual cubic feet per minute	NA	
Gas volume flow rate: dry standard cubic feet per minute	21,250	
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.35	5.90	Grain load (0.0037 gr/ft^3) x flow (42,500 cfm) (see emissions inventory for details)
Particulates as PM_{10}	1.35	5.90	Grain load (0.0037 gr/ft^3) x flow (42,500 cfm)) (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	2.2E-04	9.7E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0	0	Closed System; not vented.
Particulates as PM_{10}	0	0	Closed System; not vented.
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (1,650)^0.11] – 40 E = 84.25	Record throughput & flow	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(1,650)^0.67 E = 586.81	Record throughput & flow	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (1,650)^0.11] – 40 E = 84.25	Record throughput & flow	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and/or Method 9	In compliance

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EMISSION UNIT SPECIFIC
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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

STORAGE SILO
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit # 4 Coal Silos (C-02) (S2.011 & PF1.004)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment McNalley- Pittsburgh

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059309 meters N; 711521 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 1 - Equipment Description (Continued)

Components of this source emission include:

1. Unit 4 Loading into the Coal Silos
2. Engart 4A dust extractor
3. Engart 4B dust extractor

There are 2 Engart dust extractors that control the release of emissions from this source. Both of these units exhaust through a single stack.

SECTION 8
EMISSION UNIT SPECIFIC
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STORAGE SILO
APPLICATION FORM
CONTINUED

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 1800 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 1800

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) 300

e. Method of unloading (screw auger, etc.) feeder conveyor

f. Continuous or batch discharge Loading=batch Unloading =continuous

g. Requested unloading rate (tons per hour) 123.2

Requested unloading rate (tons per year) 1,078,943

h. Requested unloading time: Hours per day 24 Time of day 00:00 to 24:00

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) coal

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)	Dust Extractors	
Pollutant(s) Controlled	PM_{10}	
Manufacturer	Engart	
Manufacturer's Guarantee (see Note 2)	0.0037 gr/ft^3	
Stack height (feet from ground level)	192.5	
Stack inside diameter (feet)	2.75	
Temperature (°F) at design capacity	Ambient	
Stack exit velocity (feet per second)	96.12	
Gas volume flow rate: actual cubic feet per minute	NA	
Gas volume flow rate: dry standard cubic feet per minute	34,250	
Unusual stack characteristics (e.g., raincap, horizontal discharge)	NA	

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

SECTION 8
EMISSION UNIT SPECIFIC
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Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

2. Periodic maintenance will be conducted as specified by the manufacturer.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

2. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.09	4.76	Grain load (0.0037 gr/ft^3) x flow (34,250 cfm)) emission points (see emissions inventory for details)
Particulates as PM_{10}	1.09	4.76	Grain load (0.0037 gr/ft^3) x flow (34,250 cfm)) emission points (see emissions inventory for details)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.8E-04	7.8E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.
[1]A list of Hazardous Air Pollutants is contained in Attachment 4.
[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0	0	Closed System; not vented.
Particulates as PM_{10}	0	0	Closed System; not vented.
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Not fuel burning equipment	NA	NA

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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Not fuel burning equipment	NA	NA
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	Not exempt E = [55 (1,800)^0.11] – 40 E = 85.44	Record throughput & flow	In compliance
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	Not exempt E =4.10(1,800)^0.67 E = 622.04	Record throughput & flow	In compliance
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	Not exempt E = [55 (1,800)^0.11] – 40 E = 85.44	Record throughput & flow	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
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Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	NA – Not fuel burning equipment	NA	NA
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Not fuel burning equipment	NA	NA

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	NA – Does not emit sulfur (solid fuel is processed)	NA	NA
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Not exempt Opacity will not exceed 20%.	Method 22 and/or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

STORAGE SILO
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit #1-3 Flyash Silo (C-04)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment United Conveyor Corp

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.42 km meters N; 711.582 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W 28 H 52

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) 2800

b. Maximum loading rate (tons per hour) 27 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 27

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) 250

e. Method of unloading (screw auger, etc.) wetted unloading

f. Continuous or batch discharge Batch

g. Requested unloading rate (tons per hour) 250

Requested unloading rate (tons per year) 236,520

h. Requested unloading time: Hours per day 24 Time of day midnight to midnight

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) flyash

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)	Flex Kleen Pulse jet fabric filter	
Pollutant(s) Controlled	PM-10	
Manufacturer	United Conveyor Corp	
Manufacturer's Guarantee (see Note 2)	90% control Efficiency	
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Enclosure	Water Sprays
Pollutant(s) Controlled	PM10	PM10
Manufacturer	United Conveyor Corp	Unit Conveyor Corp
Manufacturer's Guarantee (see Note 1)	50% control efficiency	75% control efficiency

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunctions, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.042	0.18	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.020	0.09	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.48	0.23	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.23	0.11	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit #1-3 Backup Flyash Silo (C-07)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Smoot Company, Inc

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.44 km meters N; 711.581 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W 12 H 37

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 27 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 27

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) 250

e. Method of unloading (screw auger, etc.) wetted unloading

f. Continuous or batch discharge Batch

g. Requested unloading rate (tons per hour) 250

Requested unloading rate (tons per year) 236,520

h. Requested unloading time: Hours per day 24 Time of day midnight to midnight

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) flyash

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)	Flex-Kleen pulse jet fabric filter	
Pollutant(s) Controlled	PM-10	
Manufacturer	Smoot Company	
Manufacturer's Guarantee (see Note 2)	90% control Efficiency	
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Enclosure	Water Sprays
Pollutant(s) Controlled	PM10	PM10
Manufacturer	United Conveyor Corp	Unit Conveyor Corp
Manufacturer's Guarantee (see Note 1)	50% control efficiency	75% control efficiency

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunctions, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.042	0.18	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.020	0.09	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.48	0.23	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.23	0.11	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit #4 Flyash Silo (C-09)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment United Conveyor Corp

d. Model number _____ Serial number _____ *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.29 km meters N; 711.563 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W 50 H 86

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 65 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 65

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) 250

e. Method of unloading (screw auger, etc.) wetted unloading

f. Continuous or batch discharge Batch

g. Requested unloading rate (tons per hour) 250

Requested unloading rate (tons per year) 569,400

h. Requested unloading time: Hours per day 24 Time of day midnight to midnight

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) flyash

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)	Pulse jet fabric filter	
Pollutant(s) Controlled	PM-10	
Manufacturer	United Conveyor Corp	
Manufacturer's Guarantee (see Note 2)	90% control Efficiency	
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Enclosure	Water Sprays
Pollutant(s) Controlled	PM10	PM10
Manufacturer	United Conveyor Corp	Unit Conveyor Corp
Manufacturer's Guarantee (see Note 1)	50% control efficiency	75% control efficiency

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunctions, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.10	0.44	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.05	0.21	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.48	0.55	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.23	0.26	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit #1-3 Soda Ash Slurry Tank (W-01)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Brown-Mineapolis Tank

d. Model number _____ Serial number 276901 *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.35 meters N; 711.680 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W 34 H 31

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 30 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 30

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) NA-unloading is into a wet process, closed system

e. Method of unloading (screw auger, etc.) unloading is into a wet process, closed system

f. Continuous or batch discharge Batch

g. Requested unloading rate (tons per hour) NA-unloading is into a wet process, closed system

Requested unloading rate (tons per year) NA-unloading is into a wet process, closed system

h. Requested unloading time: Hours per day 24 Time of day midnight to midnight

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) soda ash

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Inverted Venturi Scrubber	
Pollutant(s) Controlled	PM-10	
Manufacturer	Air Pol	
Manufacturer's Guarantee (see Note 1)	80% control Efficiency	

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunctions, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.09	0.14	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.04	0.06	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0	0	Closed system and unloaded into wet slurry
Particulates as PM_{10}	0	0	Closed system and unloaded into wet slurry
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit #4 FGD Soda Ash Slurry Tank (W-02)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Portec

d. Model number _____ Serial number T-403-1 *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.25 km meters N; 711.568 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W 40 H 40

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 30 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 30

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) NA-unloading is into a wet process, closed system

e. Method of unloading (screw auger, etc.) unloading is into a wet process, closed system

f. Continuous or batch discharge Batch

g. Requested unloading rate (tons per hour) NA-unloading is into a wet process, closed system

Requested unloading rate (tons per year) NA-unloading is into a wet process, closed system

h. Requested unloading time: Hours per day 24 Time of day midnight to midnight

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) soda ash

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Inverted Venturi Scrubber	
Pollutant(s) Controlled	PM-10	
Manufacturer	Neptune	
Manufacturer's Guarantee (see Note 1)	80% control Efficiency	

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunctions, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.09	0.12	AP-42 Emission Factor (see Table 3.3-1)
Particulates as PM_{10}	0.04	0.06	AP-42 Emission Factor (see Table 3.3-1)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0	0	Closed system and unloaded into wet slurry
Particulates as PM_{10}	0	0	Closed system and unloaded into wet slurry
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CLASS I-B

Check here if this is an alternative operating scenario ☐

Section 1 - Equipment Description

a. Type of equipment Unit #4 Water Treatment Lime Silo (W-03)

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment O.A. Newton

d. Model number _____ Serial number 276901 *Equip. number _____

e. Date equipment manufactured: _____

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
X Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059.24 km meters N; 711.574 km meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W 40 H 40

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. Maximum design storage capacity (tons) _____

b. Maximum loading rate (tons per hour) 40 Loading time (hours to fill) _____

c. *Requested loading rate (tons per hour): 40

*Hours per day 24 Days per year 365 Hours per year 8760

d. Maximum unloading rate (tons per hour) 0.29

e. Method of unloading (screw auger, etc.) screw feeder

f. Continuous or batch discharge Loading is Batch; Unloading is Continuous

g. Requested unloading rate (tons per hour) 0.29

Requested unloading rate (tons per year) 2540

h. Requested unloading time: Hours per day 24 Time of day midnight to midnight

Hours per day 24 Days per year 365 Hours per year 8760

i. Material type processed (lime, cement, flyash, etc.) lime

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (this section *must* be completed)
-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)	Pulse-Jet Fabric Filter	
Pollutant(s) Controlled	PM-10	
Manufacturer	Ecodyne Graver	
Manufacturer's Guarantee (see Note 2)	90% Control Efficiency	
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.
Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Enclosure	
Pollutant(s) Controlled	PM10	
Manufacturer		
Manufacturer's Guarantee (see Note 1)	50% control efficiency	

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunctions, the emission unit will be operated in a manner consistent with good air pollution control practices and as specified by the manufacturer.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.062	0.002	AP-42 Emission Factor (see Section 13.2.4)
Particulates as PM_{10}	0.029	0.001	AP-42 Emission Factor (see Section 13.2.4)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

STORAGE SILO
APPLICATION FORM
CONTINUED

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.002	0.010	AP-42 Emission Factor (see Table 11.12-2)
Particulates as PM_{10}	0.001	0.005	AP-42 Emission Factor (see Table 11.12-2)
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])			
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit 1&2 Emergency Generator

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Detroit Diesel

d. Model number S6 Serial number 06R0766345 *Equip. number

e. Date equipment manufactured: 2004

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059536 meters N; 711459 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L W H

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) 490
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour)
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day to

Hours per day 24 Days per year 365 Hours per year 100

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
No.2 fuel oil	25 gallons	139,000 Btu/gal			
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Uncontrolled	
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. The hours of operation of this unit will be recorded and logged.
3. Opacity inspections will be conducted.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	1.08	0.05	AP-42 Table 3.3-1 (see emissions inventory for details)
Particulates as PM_{10}	1.08	0.05	AP-42 Table 3.3-1 (see emissions inventory for details)
Sulfur Dioxide	1.00	0.05	AP-42 Table 3.3-1 (see emissions inventory for details)
Carbon Monoxide	1.0	0.05	AP-42 Table 3.3-1 (see emissions inventory for details)
Oxides of Nitrogen	15.2	0.8	AP-42 Table 3.3-1 (see emissions inventory for details)
Volatile Organic Compounds	1.23	0.06	AP-42 Table 3.3-1 (see emissions inventory for details)
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	2.19E-02	1.09E-03	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . 0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	0.600 lb/hr per MMBtu	Record hours of operation	In compliance
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 10 MMBtu	N/A	N/A
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Less than 4 MMBtu	N/A	N/A
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	NA – fuel burning equipment, throughput not applicable	N/A	N/A
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	NA – fuel burning equipment, not industrial source	N/A	N/A
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	NA – fuel burning equipment, not industrial source		

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	Total heat Input = 3.48 MMBtu Y = 0.7X Y = 2.433 lb/hr	Record hours of operation	In compliance
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	Total heat Input = 3.48 MMBtu Y = 0.7X Y = 2.433 lb/hr	Record hours of operation	In compliance
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Less than 4 MMBtu	N/A	N/A

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	EXEMPT (sulfur originates from fuel only)	N/A	N/A
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Opacity will not exceed 20%	Method 22 and/or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit 3 Emergency Electric Generator

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment MTU Onsite Energy (John Deer)

d. Model number 4045HF285 Serial number _____ *Equip. number _____

e. Date equipment manufactured: 2011

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 40599406 meters N; 711459 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) 197
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) _____
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 100

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
No.2 fuel oil	9.9 gallons	139,000 Btu/gal			
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	In cylinder NOX	PM Control filter
Pollutant(s) Controlled	NOx/HC/CO	PM/PM10
Manufacturer	John Deer	John Deer
Manufacturer's Guarantee (see Note 1)	NOx =2.7 g/hp-hr HC=0.1 g/hp-hr CO=0.8 g/hp-hr	0.11 g/hp-hr
Stack height (feet from ground level)	42	42
Stack inside diameter (feet)	0.33	0.33
Temperature (°F) at design capacity	1062	1062
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute	953 cfm	953 cfm
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. The hours of operation of this unit will be recorded and logged.
3. Opacity inspections will be conducted.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.05	0.002	Manufacturer's Guarantee (see emissions inventory for details)
Particulates as PM_{10}	0.05	0.002	Manufacturer's Guarantee (see emissions inventory for details)
Sulfur Dioxide	0.4	0.02	AP-42 Table 3.3-1 (see emissions inventory for details)
Carbon Monoxide	0.3	0.02	Manufacturer's Guarantee (see emissions inventory for details)
Oxides of Nitrogen	1.2	0.1	Manufacturer's Guarantee (see emissions inventory for details)
Volatile Organic Compounds	0.04	0.002	Manufacturer's Guarantee (see emissions inventory for details)
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	8.78E-03	4.4E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	0.600 lb/hr per MMBtu	Record hours of operation	In compliance
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 10 MMBtu	N/A	N/A
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Less than 4 MMBtu	N/A	N/A
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	NA – fuel burning equipment, throughput not applicable	N/A	N/A
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	NA – fuel burning equipment, not industrial source	N/A	N/A
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	NA – fuel burning equipment, not industrial source		

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	Total heat Input = 1.38 MMBtu Y = 0.7X Y = 0.966 lb/hr	Record hours of operation	In compliance
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	Total heat Input = 1.02 MMBtu Y = 0.7X Y = 0.966 lb/hr	Record hours of operation	In compliance
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Less than 4 MMBtu	N/A	N/A

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	EXEMPT (sulfur originates from fuel only)	N/A	N/A
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Opacity will not exceed 20%	Method 22 and/or Method 9	In compliance

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Unit 4 Emergency Generator

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Scania

d. Model number Variant A 20T, DS 1441 Serial number 5513449 *Equip. number _____

e. Date equipment manufactured: 1984

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059368 meters N; 711491 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) 348
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) _____
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 100

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
No.2 fuel oil	25 gallons	139,000 Btu/gal			
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	Uncontrolled	
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. The hours of operation of this unit will be recorded and logged.
3. Opacity inspections will be conducted.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.77	0.04	AP-42 Table 3.3-1 Note: NV Energy is not requesting limits for this source.
Particulates as PM_{10}	0.77	0.04	AP-42 Table 3.3-1 Note: NV Energy is not requesting limits for this source.
Sulfur Dioxide	0.71	0.04	AP-42 Table 3.3-1 Note: NV Energy is not requesting limits for this source.
Carbon Monoxide	0.7	0.03	AP-42 Table 3.3-1 Note: NV Energy is not requesting limits for this source.
Oxides of Nitrogen	10.8	0.5	AP-42 Table 3.3-1 Note: NV Energy is not requesting limits for this source.
Volatile Organic Compounds	0.87	0.04	AP-42 Table 3.3-1 Note: NV Energy is not requesting limits for this source.
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.55E-02	7.76E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	0.600 lb/hr per MMBtu	Record hours of operation	In compliance
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 10 MMBtu	N/A	N/A
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Less than 4 MMBtu	N/A	N/A
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	NA – fuel burning equipment, throughput not applicable	N/A	N/A
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	NA – fuel burning equipment, not industrial source	N/A	N/A
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	NA – fuel burning equipment, not industrial source		

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	Total heat Input = 3.48 MMBtu Y = 0.7X Y = 2.433 lb/hr	Record hours of operation	In compliance
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	Total heat Input = 3.48 MMBtu Y = 0.7X Y = 2.433 lb/hr	Record hours of operation	In compliance
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Less than 4 MMBtu	N/A	N/A

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	EXEMPT (sulfur originates from fuel only)	N/A	N/A
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Opacity will not exceed 20%	Method 22 and/or Method 9	In compliance

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I-B

☐ **Check here if this is an alternative operating scenario**

Section 1 - Equipment Description

a. Type of equipment Emergency Fire Pump

b. Standard Industrial Classification (SIC) Code 4911

c. Manufacturer of equipment Cummins

d. Model number CFP9E-F60 Serial number _____ *Equip. number _____

e. Date equipment manufactured: 2011

f. Please check one: ☐ Temporary (At the same location for less than 12 months)
☒ Stationary (At the same location for more than 12 months)

g. Please check if portable: ☐ Portable (transportable or movable within the confines of the stationary source)

h. UTM Coordinates 4059802 meters N; 711598 meters E; Zone 11
(Please specify NAD 27 ☐ or NAD 83 ☒)

i. Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a. **Maximum** design horsepower **OUTPUT** (horsepower per hour) 355
(Please provide for internal combustion engines only)

b. **Maximum** design heat **INPUT** (million Btu per hour) _____
(Please provide for all combustion units except for internal combustion engines)

c. *Requested operating time: time of day _____ to _____

Hours per day 24 Days per year 365 Hours per year 100

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
No.2 fuel oil	18.6 gallons	139,000 Btu/gal			
	gallons				
Gasoline	gallons				
Propane	gallons/cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)	In cylinder NOX	PM Filter
Pollutant(s) Controlled	NOx/HC/CO	PM/PM10
Manufacturer	Cummins	Cummins
Manufacturer's Guarantee (see Note 1)	CO=1.417 g/bhp-hr NOX=2.2 g/bhp-hr NMHC=0.123 g/bhp-hr	0.118 g/bhp-hr
Stack height (feet from ground level)	8.9	8.9
Stack inside diameter (feet)	0.5	0.5
Temperature (°F) at design capacity	1077	1077
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute	2133 cfm	2133 cfm
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

1. Periodic maintenance will be conducted as specified by the manufacturer.
2. The hours of operation of this unit will be recorded and logged.
3. Opacity inspections will be conducted.

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices

COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)	0.1	0.005	Manufacturer's Guarantee (see emissions inventory for details)
Particulates as PM_{10}	0.1	0.005	Manufacturer's Guarantee (see emissions inventory for details)
Sulfur Dioxide	0.7	0.04	AP-42 Table 3.3-1 (see emissions inventory for details)
Carbon Monoxide	1.1	0.06	Manufacturer's Guarantee (see emissions inventory for details)
Oxides of Nitrogen	1.7	0.1	Manufacturer's Guarantee (see emissions inventory for details)
Volatile Organic Compounds	0.1	0.005	Manufacturer's Guarantee (see emissions inventory for details)
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant[1])	1.78E-02	8.9E-04	See emissions inventory for specific pollutant information. Note: NV Energy is not requesting HAP limits for this source.
Other Regulated Pollutants (Specify[2])			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

[1]A list of Hazardous Air Pollutants is contained in Attachment 4.

[2]Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2203 *(State Only Requirement)* **Emissions of Particulate Matter - Fuel Burning Equipment** 1. Source may not cause or permit the emission of PM_{10} resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas: a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$ 2. For the purposes of paragraphs b and c of subsection 1: a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A
SIP 445.731(1)(a) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table: Heat input in millions of — Maximum allowable emission of particulate matter in pounds per hour per million Up to and including 10 . . . . . 0.600 100. . . . . .0.352 1,000. . . . . 0.206 10,000. . . . . 0.091 100,000. . . . . 0.025	0.600 lb/hr per MMBtu	Record hours of operation	In compliance
SIP 445.731(1)(b) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 10 MMBtu	N/A	N/A
SIP 445.731(1)(c) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.	NA – Less than 4 MMBtu	N/A	N/A

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.731(3) - *(Federally Enforceable SIP Requirement)* **Particulate Matter - Fuel Burning Equipment** Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.	NA – Less than 4 MMBtu	N/A	N/A
NAC 445B.22033, 445B.22027 *(State Only Requirement)* **Emissions of Particulate Matter - Sources Not Otherwise Limited** 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM_{10} to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.	NA – fuel burning equipment, throughput not applicable	N/A	N/A
SIP 445.732 - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section. SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67}$ ($4.10P^{0.67}$) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kil`ograms (tons) per hour.	NA – fuel burning equipment, not industrial source	N/A	N/A
SIP 445.732 (3) - *(Federally Enforceable SIP Requirement)* Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11}$-18.14 ($55P^{0.11}$- 40) "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.	NA – fuel burning equipment, not industrial source		

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.22047 *(State Only Requirement)* Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: Y = 0.7X 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, Y = 0.4X Solid Fuel, Y = 0.6X Combination, Y = (L(0.4) - S(0.6))/(L + S) 4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.	Total heat Input = 2.58 MMBtu Y = 0.7X Y = 1.81 lb/hr	Record hours of operation	In compliance
SIP Article 8.1 and 8.2 *(Federally Enforceable SIP Requirement)* Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: Y = 1.26X (Y = 0.7X) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.	Total heat Input = 1.39 MMBtu Y = 0.7X Y = 1.81 lb/hr	Record hours of operation	In compliance
SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations: Liquid Fuel: Y = 0.7X (Y = 0.4X) Solid Fuels: Y = 1.1X (Y = 0.6X) Combination Fuel: $Y = \frac{L(0.7) + S(1.1)}{L + S}$ "X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel. 8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.	NA – Less than 4 MMBtu	N/A	N/A

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.2204, 445B.22043, 445B.2205 *(State Only Requirement)* Other Processes Which Emit Sulfur 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When □E□ is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.	EXEMPT (sulfur originates from liquid fuel)	N/A	N/A
SIP 445.746 - *(Federally Enforceable SIP Requirement)* Other Sulfur Emitting Processes SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.	EXEMPT (sulfur originates from fuel only)	N/A	N/A
NAC 445B.22017 *(State Only Requirement)* Maximum Opacity of Emissions 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.	Opacity will not exceed 20%	Method 22 and/or Method 9	In compliance

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP 445.721 *(Federally Enforceable SIP Requirement)* Visible Emissions from Stationary Sources These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.		Recordkeeping	In Compliance

SURFACE AREA DISTURBANCE
APPLICATION FORM
CLASS I OPERATING PERMIT

1. Project Name ________ Not Applicable ____

2. Surface Area Disturbance Location:

   Overall disturbance location description:

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

   Township___________________; Range _________________; Section __________________;

3. Indicate the total number of acres to be disturbed for the project ____________________________

4. Nevada Administrative Code 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 sprays 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 of soils.

5. Please include a dust control plan in Appendix 8 if the total number of acres to be disturbed in number 3 above equals or exceeds 20 acres. The dust control measures discussed above should be considered in the preparation of the required dust control plan. Two documents entitled "SAD Dust Control Plan Preparation Guidelines" and "SAD Fugitive Dust Control Plan" can be downloaded at www.ndep.nv.gov/bapc under Downloads. The acceptance of the dust control plan by the Bureau of Air Pollution Controldoes not limit the permit holder's need to control fugitive dust from the disturbance and its related activities, nor from putting into effect an ongoing program for using the best practical methods of dust control.

Appendix 2

INSIGNIFICANT ACTIVITY INFORMATION FORM

Section 1 - List All Emission Units that are Insignificant Activities Pursuant to NAC 445B.288.2(a) through (h) (see Attachment 2 for regulation).

Emission Unit	Exemption Regulation (Example - NAC 445B.288.2(b))	Reason Exemption Applies
Unit #1&2 Emergency Diesel Generator (#G-01)	NAC 445B.288.2(f)	Less than 500 hp.
Unit #3 Emergency Diesel Generator (#G-02)	NAC 445B.288.2(f)	Less than 500 hp.
Unit #4 Emergency Diesel Generator (#G-03)	NAC 445B.288.2(f)	Less than 500 hp.
Site Motor Vehicle Diesel Tanks (#T-04)	NAC 445B.288.2(d)	Capacity less than 40,000 gallons
Fire pump	NAC 445B.288.2(f)	Less than 100 hours.

Section 2 - List All Emission Units Proposed as Insignificant Activities Pursuant to List Approved by the Director (see Attachment 1 - List of Approved Insignificant Activities)

Emission Unit	Reason Exemption Applies
NA	

Section 3 - List All Emission Units Proposed as Insignificant Activities and Not Otherwise Listed in Section 1 or Section 2 (NAC 445B.288.4). Proposed insignificant activities from this Section must be submitted, under separate cover, to the Director for his approval. The submittal must include a sufficient description of the emission unit(s), all emissions calculations, and references.

Emission Unit
NA

Section 4 -Emissions Calculations - Insignificant Emission Units/Activities

Emissions calculations for each insignificant activity listed in Sections 1 through 3 above must be provided and included in Appendix 4. Emissions calculations must be based on the maximum design throughput, maximum design production rate or maximum design heat input rate value of the emission unit or activity. No consideration for emissions reduction from pollution controls or limits on the hours of operation or other operational constraints may be allowed unless otherwise approved by the Director or as indicated in NAC 445B.288.3 or on the list provided in Attachment 1.

Appendix 3

FACILITY-WIDE APPLICABLE REQUIREMENTS

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
Nevada Revised Statute (NRS) 445B.470 *(State Only Requirement)* Prohibited Acts Source shall not knowingly: 1. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information; 2. Fail to pay any fee; 3. Falsify any material statement, representation or certification in any notice or report; or 4. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions.		Recordkeeping	In compliance
NAC 445B.22013 *(State Only Requirement)* Prohibited Discharge Source shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the director.		Monitoring & Recordkeeping	In compliance
NAC 445B.225 *(State Only Requirement)* Prohibited Conduct: Concealment of Emissions Source shall not install, construct, or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.		Monitoring & Recordkeeping	In compliance
State Implementation Plan (SIP) Article 2.2 *(Federally Enforceable State Implementation Plan (SIP) Requirement)* Circumvention 2.2.1 - Except for the sole purpose of reducing the odor of an emission, Source shall not install, construct, or use any device which conceals any emission without resulting in a reduction in the total release of air contaminants to the atmosphere.		Recordkeeping	In compliance
NAC 445B.326.1 (445.7133.1) *Federally Enforceable Part 70 Program* Assertion of Emergency as Affirmative Defense to Action for Noncompliance Source may assert an affirmative defense to an action brought for noncompliance with a technology-based emission limitation contained in the Operating Permit if the holder of the Operating Permit demonstrates through signed, contemporaneous operating logs or other relevant evidence that: a. An emergency occurred as defined in 445B.056 and the holder of the Operating Permit can identify the cause of the emergency; b. The facility was being properly operated at the time of the emergency; c. During the emergency, the holder of the Operating Permit took all reasonable steps to minimize excess emissions; and d. The holder of the Operating Permit submitted notice of the emergency to the director within 2 working days after the emergency. The notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken to restore the normal operation of the facility.		Recordkeeping	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.315.2.h (445.7112.2.h) *Federally Enforceable Part 70 Program* Source shall provide the Bureau of Air Quality, within a reasonable time, with any information that the Bureau of Air Quality requests in writing to determine whether cause exists for modifying, revoking and reissuing, reopening and revising or terminating this Operating Permit or to determine compliance with the conditions of this Operating Permit.		Recordkeeping	In compliance
NAC 445B.315.i (445.7145, 445.7112.2.i) *Federally Enforceable Part 70 Program* Source shall pay fees to the Bureau of Air Quality in accordance with the provisions set forth in NAC 445B.327 and 445B.331.		Recordkeeping	In compliance
NAC 445B.315.2.k (445.7112.2.k) *Federally Enforceable Part 70 Program* A responsible official of Source shall certify that, based on information and belief formed after reasonable inquiry, the statements made in any document required to be submitted by any condition of an Operating Permit are true, accurate and complete.		Recordkeeping	In compliance
40 CFR 52.21(r)(4) *(Federally Enforceable PSD Program)* At such time that Source becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 shall apply to the source or modification as though construction had not yet commenced on the source or modification.		Recordkeeping	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
(NAC 445B.252) *(State Only Requirement)* Testing and Sampling 1. To determine compliance with NAC 445B.001 (445.430) to 445B.395 (445.846), inclusive, before the approval or the continuance of an Operating Permit or similar class of permits, the director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial startup of the facility and at such times as may be required by the director. 2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the director: a. Specifies or approves, in specific cases, the use of a method of reference with minor changes in methodology; b. Approves the use of an equivalent method; c. Approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific stationary source is in compliance; or d. Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the director's satisfaction that the affected facility is in compliance with the standard. 3. Tests of performance must be conducted under such conditions as the director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown, and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard. 4. The owner or operator of an affected facility shall give notice to the director 30 days before the test of performance to allow the director to have an observer present. A written testing procedure for the test of performance must be submitted to the director at least 30 days before the test of performance to allow the director to review the proposed testing procedures. 5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the director's approval. 6. All testing and sampling will be performed in accordance with recognized methods as specified by the director. 7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the director must be provided and paid for by the owner of the stationary source. 8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the director no later than 60 days after the testing or sampling, or both.		N/A	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP Article 2.6 *(Federally Enforceable SIP Requirement)* Testing and Sampling 2.6.1 - To determine compliance with these regulations prior to approval of or prior to the continuance of an operating permit or similar class of permits, the Director may either conduct or order the owner of any source to conduct or have conducted such testing and sampling as the Director determines necessary. 2.6.2 - Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Director. 2.6.3 - Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, or (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Director□s satisfaction that the affected facility is in compliance with the standard. 2.6.4 - Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard. 2.6.5 - The owner or operator of an affected facility shall provide the Director 30 days prior notice of the performance test to afford the Director the opportunity to have an observer present. 2.6.6 - Each performance test shall consist of at least two separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs shall apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than two valid samples being obtained, an additional performance test(s) must be conducted. 2.6.7 - All testing and sampling will be performed in accordance with recognized methods as specified by the Director. 2.6.8 - The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the Director shall be provided and paid for by the owner of the source. 2.6.9 - All information and analytical results of testing and sampling shall be certified as to their truth and accuracy and as to their compliance with all provisions of these (SIP) regulations and copies of these results shall be provided to both the owner and Director.		Performance Testing & sampling; Recordkeeping	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.22067 *(State Only Requirement)* Open Burning The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in NAC 445B.22067.2.		N/A	In compliance
SIP Article 5.1 *(Federally Enforceable SIP Requirement)* Open Burning The open burning of any combustible refuse, waste, garbage, oil fires, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in SIP Articles 5.2, 5.2.1, 5.2.2, 5.2.3, 5.2.4 and 5.2.5.		Standard Operating Practice	In compliance
NAC 445B.22087 *(State Only Requirement)* Odors Source may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents comfortable enjoyment of life or property.		N/A	In compliance
SIP Article 10 *(Federally Enforceable SIP Requirement)* Odors 10.1.1 - Source shall not discharge, or cause to be discharged from any source any material or air contaminant which is, or tends to be, offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents the comfortable enjoyment of life or property.		Standard Operating Practice; Observation & Recordkeeping	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.22093 *(State Only Requirement)* Organic Solvents and Other Volatile Compounds 1. Solvents or other volatile compounds such as paints, acids, alkalies, pesticides, fertilizers, and manure must be processed, stored, used, and transported in such a manner and by such means as to minimize the tendency to evaporate, leak, escape, or be otherwise discharged into the ambient air causing or contributing to air pollution. If methods of control are available and feasible effectively to reduce the contribution to air pollution from evaporation, leakage, or discharge, as determined by the director, the installation and use of such methods, devices, or equipment for control is mandatory. 2. Source may not place, store, or hold in any new reservoir, stationary tank or other container with a capacity equal to or greater than 40,000 gallons any gasoline, petroleum distillate, or other volatile organic compound having a vapor pressure of 1.5 lb/square inch absolute or greater under actual storage conditions unless the tank, reservoir, or other container is a pressure tank maintaining working pressure sufficient at all times to prevent loss of vapor or gas to the atmosphere or is equipped with one of the following devices properly installed, in good working order, and in operation: a. A floating roof which consists of a pontoon type or double-deck roof which rests on the surface of the liquid contents and is equipped with a seal to close the space between the roof eave and tank wall or a vapor balloon or a vapor dome designed in accordance with accepted standards of the petroleum industry. This control equipment is not permitted if the gasoline or petroleum distillate has a vapor pressure of 11 lb/square inch absolute or greater under actual conditions. All gauging and sampling devices for tanks must be gas tight except when gauging or sampling is taking place. b. Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere. 3. Any tank for the storage of any other petroleum or volatile organic compound which is constructed or extensively remodeled on or after November 7, 1975, must be equipped with a submerged fill pipe or the equivalent, as approved by the director, for control of emissions. 4. All facilities for dock loading of products consisting of petroleum or other volatile organic compounds having a vapor pressure of 1.5 lb/square inch absolute or greater at loading pressure must have facilities for submerged filling by submerged fill pipe or an acceptable equivalent, for the control of emissions.		Standard Operating Practice	In compliance
SIP Article 9 *(Federally Enforceable SIP Requirement)* Organic Solvent, other Volatile Compounds 9.1 - Materials such as, but not limited to, solvents or other volatile compounds such as paints, acids, alkalies, pesticides, fertilizers, and manure shall be processed, stored, used, and transported in such a manner and by such means as to minimize the tendency to evaporate, leak, escape, or be otherwise discharged into the ambient air causing or contributing to air pollution; and where control methods are available and feasible effectively to reduce the contribution to air pollution from evaporation, leakage, or discharge, as determined by the Director, the installation and use of such control methods, devices, or equipment shall be mandatory.		Standard Operating Practice	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP Article 9.2 *(Federally Enforceable SIP Requirement)* Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons) 9.2.1 - Source shall not place, store, or hold in any new reservoir, stationary tank or other container any gasoline, petroleum distillate, or other volatile organic compound having a vapor pressure of 1,055 kilograms per square meter (1.5 lb/square inch absolute) or greater (under actual storage conditions) unless such tank, reservoir, or other container is a pressure tank maintaining working pressure sufficient at all times to prevent vapor or gas loss to the atmosphere or is equipped with one of the following vapor loss control devices (see 9.2.1, 9.2.1.2) properly installed, in good working order, and in operation. 9.2.1.1 - A floating roof which consists of a pontoon type or double-deck roof which rests on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof eave and tank wall; or a vapor balloon or a vapor dome, designed in accordance with accepted standards of the petroleum industry. This control equipment shall not be permitted if the gasoline or petroleum distillate has a vapor pressure of 7,734 kilograms (11 lb/square inch absolute) or greater under actual conditions. All tank gauging and sampling devices shall be gas tight except when gauging or sampling is taking place. 9.2.1.2 - Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere.		N/A	In compliance
SIP Article 9.2 *(Federally Enforceable SIP Requirement)* Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons) (Continued) 9.2.2 - Any other petroleum or volatile organic compound storage tank which is constructed or extensively remodeled, on or after the effective date of these regulations, shall be equipped with submerged fill pipe or equivalent, as approved by the Director for control of emissions.		N/A	In compliance
SIP Article 9.2 *(Federally Enforceable SIP Requirement)* Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons) (Continued) 9.2.3 - All facilities for dock loading of petroleum or volatile organic compound products, having a vapor pressure of 1,055 kilograms per square meter (1.5 pounds per square inch absolute) or greater at loading pressure, shall provide for submerged filling by a submerged fill pipe or acceptable equivalent for the control of emissions		N/A	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.22037 *(State Only Requirement)* Fugitive Dust 1. Source may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne. 2. Except as otherwise provided in subsection 4, Source may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, □best practical methods□ includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation. 3. Except as provided in subsection 4, Source may not disturb or cover 5 acres or more of land or its topsoil until he has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land. 4. The provisions of subsections 2 and 3 do not apply to: a. Agricultural activities occurring on agricultural land; or b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.		Follow dust plan	In compliance
SIP Article 7.3 *(Federally Enforceable SIP Requirement)* Fugitive Dust 7.3.1 - Source shall not cause or permit the handling, transporting, or storing of any material in a manner which allows, or may allow, controllable particulate matter to become airborne. 7.3.2 - In areas designated by the Director, Source shall not cause or permit the construction, repair, or demolition work, or the use of unpaved or untreated areas without applying all such measures as may be required by the Director to prevent particulate matter from becoming airborne. 7.3.3 - Source may not disturb or cover 8 hectares (20 acres) or more of land or its topsoil, except for agricultural land until Source obtains a registration certificate or operating permit for the purpose of clearing, excavating or leveling such land or any foreign material to fill or cover such land.		N/A	In compliance
NAC 445B.227 (445.664) *Federally Enforceable Part 70 Program* Facilities Operation Source may not: 1. Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating. 2. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of this Operating Permit.		Standard Operating Practice	In compliance

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
The following provisions are applicable requirements of this Operating Permit: 1. Source will comply with all applicable provisions of; a. 40 CFR Part 60.1 - 60.19 - Standards of Performance for New Stationary Sources - General Provisions; b. 40 CFR Part 61.01 - 61.19 - National Emission Standards for Hazardous Air Pollutants - General Provisions; c. 40 CFR Part 61.140 - 61.157 - National Emission Standards for Asbestos; d. 40 CFR Part 63.1 - 63.15 - National Emission Standards for Hazardous Air Pollutants for Source Categories - General Provisions; e. 40 CFR Part 70 - State Operating Permit Program.		Recordkeeping	In compliance
Source is subject to 40 CFR Part 68 - Chemical Accident Prevention Provisions. Source shall submit a risk management plan (RMP) by June 21, 1999, or other dates specified in 40 CFR 68.10. Source shall certify compliance with these requirements as part of the annual compliance certification as required by 40 CFR Part 70.		Recordkeeping & Reporting	In compliance
Source will comply with all provisions of 40 CFR Part 82. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156. Equipment used during maintenance, service, repair, or disposal of appliances must meet the standards for recycling and recovery equipment in accordance with 40 CFR 82.158. Persons performing maintenance, service, repair or disposal of appliances must be certified by a certified technician pursuant to 40 CFR 82.161.		Training, Recordkeeping, Standard Operating practice	In compliance
<u>Chemical Accident Prevention Provisions</u> Source shall: 1. Submit a compliance schedule for meeting the requirements of 40 CFR Part 68.215 by the date provided in 40 CFR Part 68.10(a) or; 2. Submit as part of the compliance certification submitted under 40 CFR Part 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68.215, including the registration and submission of the risk management plan.		Recordkeeping, Reporting	In compliance
Source is not in compliance with NAC 445B.230 - □Plan for reduction of emissions.□ In order to achieve compliance Source shall submit a plan for reducing or eliminating emissions associated with the stationary source in accordance with the episode stages of alert, warning, and emergency as contained in the applicable State Implementation Plan for the State of Nevada. The plan must be submitted on or before July 1, 1998.		Recordkeeping, Reporting	In compliance

Appendix 4

STREAMLINING AND SHIELD ALLOWANCE

☒ Streamlining is not requested

Appendix 5

FACILITY-WIDE POTENTIAL TO EMIT TABLES

TABLE 1

FACILITY-WIDE (STATIONARY SOURCE) POTENTIAL TO EMIT POUNDS/HOUR AND TONS/YEAR

Pollutant	Potential to Emit (pounds/hour)	Potential to Emit (tons/year)
Total Particulate Matter (PM)	568	2,129
Particulates as PM_{10}	522	2,009
Sulfur Dioxide	2,217	9,701
Carbon Monoxide	15,206	66,580
Oxides of Nitrogen	3,085	13,400
Volatile Organic Compounds	2,283	9,991
Lead		
Hazardous Air Pollutants (Specify Each Pollutant)	43.9	180.9
See emissions inventory for		
specific pollutant information		
Other Regulated Pollutants (Specify)		