

**Application
for
Class I Air Quality
Operating Permit
(New, Significant Revision, Renewal)**

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 is for a source subject to the following NESHAP requirements (40 CFR § 63):
Subpart ZZZZ

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)]. **Not applicable. There is not an increase of greater than 10 tons per year of a regulated air pollutant.**
- 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)]. **Not applicable. This is not a proposed major modification.**
- 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: _____

GENERAL COMPANY INFORMATION (CONTINUED)

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)**

Instructions

PLEASE RESPOND SEPARATELY TO ITEMS 1 through 8 FOR EACH EMISSION UNIT, as appropriate. Each emission unit at the stationary source must be identified by completion of the appropriate application form contained in this appendix. Forms may be duplicated as needed. Complete all applicable attachments (**Appendix 1**) included in this application package [NAC 445B.295].

- Section 1. Equipment Description: Provide information about the Standard Industrial Classification Code (SIC), describe the processes and products by SIC, including any associated with an alternative operating scenario identified in this application, model number, manufacture date, dimensions and UTM coordinates. [NAC 445B.295.3]
- Section 2. Design Rate/Operating Parameters: Describe all production rates, operating schedules and materials used in the process. [NAC 445B.295.3]
- Section 3. Fuel Usage: Describe all fuels and fuel usage. [NAC 445B.295.3]
- Section 4. Pollution Control Equipment/Exhaust Stack Parameters: Identify and describe all air pollution control equipment. [NAC 445B.295.4]
- Section 5. Compliance Monitoring Devices and Activities: Identify and describe any equipment for the control of air pollution and any devices or activities for monitoring compliance with emission limitations. [NAC 445B.295.4]
- Section 6. Work Practice Standards: provide information on limitations on the operation or any standards for work practices which affect emissions for all regulated air pollutants. [NAC 445B.295.5].
- Section 7. Requested Emission Limits: Provide the requested emission limits for each emission unit. Include emission rates of all regulated air pollutants that are subject to an emissions limitation pursuant to an applicable requirement. The emission rates must be described in pounds per hour and tons per year and in such terms as are necessary to establish compliance using the applicable standard reference test method. [NAC 445B.295.8, NAC 445B.3363(d)]
- Section 8. Applicable Requirements, Test Methods, and Compliance Status: One copy of Section 8 is provided following the Liquid Storage Tank Application. Please complete a copy of Section 8 for **each individual application form completed**. [NAC 445B.3363.1(g), 445B.3363.1(h)]

Alternative Operating Scenarios: Complete a separate application form for each emission unit having an alternative operating scenario. (*A common example of an alternative operating scenario is a steam boiler that utilizes natural gas as the primary fuel, but may combust diesel fuel as an alternate fuel source*). Please check the box in the upper right hand corner of each application form for emission units requesting an alternative operating scenario. Additionally, for each emission unit application form requesting an alternative operating scenario:

1. Define each alternative operating scenario [NAC 445B.296.1(a)];
2. Demonstrate that each scenario will comply with each applicable requirement or relevant requirement of NAC 445B.001 to 445B.3497, inclusive [NAC 445B.296.1(b)];
3. Detail proposed conditions, including monitoring and recordkeeping for each alternative operating scenario, which will ensure compliance. Contemporaneous log entries must be provided every time the source changes from one scenario to another [NAC 445B.296.1(c)].
4. Provide emission rates and detailed calculations for each alternative operating scenario in Appendix 4 [NAC 445B.296.1(d)].

Surface Area Disturbance

Complete a Surface Area Disturbance application form for any land disturbances that equal or exceed 5 acres. (*Note: The submittal of a dust control plan is required for each surface area disturbance, as specified in Appendix 7. Please provide the dust control plan in Appendix 7.*)

**INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B**

9Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

a.	Type of equipment	<u>Tail Gas Thermal Oxidizer (Plant 1)</u>				
b.	Standard Industrial Classification (SIC) Code	<u>2819 (Industrial Inorganic Chemicals, NEC)</u>				
c.	Manufacturer of equipment	<u>PCC – Process Combustion Corp. / BCC – Bloom Engineering</u>				
d.	Model number	<u>3063</u>	Serial number	<u>N/A</u>	*Equip. number	<u>1TO1</u>
e.	Date equipment manufactured:	<u>2008</u>				
f.	Please check one:	<input type="checkbox"/> Temporary (At the same location for less than 12 months)	<input checked="" type="checkbox"/> Stationary (At the same location for more than 12 months)			
g.	For crushers: size output setting, check one:	<input type="checkbox"/> Primary ($\geq 4"$)	<input type="checkbox"/> Secondary ($< 4"$ but $\geq 1"$)	<input type="checkbox"/> Tertiary ($< 1"$)		
h.	Please check if portable:	<input type="checkbox"/> Portable (transportable or movable within the confines of the stationary source)				
i.	UTM Coordinates	<u>4532510.22</u>	meters N;	<u>427,508.13</u>	meters E; Zone 11	
		(Please specify NAD 27 <input type="checkbox"/> or NAD 83 <input checked="" type="checkbox"/>)				
j.	Basic equipment dimensions (feet): Diameter:	<u>4.46</u>	W	<u> </u>	H	<u>60</u>

*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)	<u>8.0 tons/hr NaCN</u>		
b.	Requested operating rate (tons per hour)*	<u>5.0 tons/hr NaCN</u>		
c.	Requested operating time: (time of day)*	<u>00:00</u> to <u>23:59</u>		
	Hours per day	<u>24</u>	Days per year	<u>365</u>
d.	Batch load or charge weight (tons) (if applicable)	<u>N/A</u>		
e.	Total hours required to process batch or charge (if applicable)	<u>N/A</u>		
f.	Maximum operating rate (tons per year)	<u>70,080 tpy (140 million lbs/yr)</u>		
g.	Requested operating rate (tons per year)*	<u>39,900 tpy (79.8 million lbs/yr)</u>		
f.	Type of material processed	<u>Sodium Cyanide (NaCN)</u>		
g.	Minimum moisture content	<u>25%</u>		

*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	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	9,804 cubic feet	1,020 BTU/scf			
*Waste Oil	gallons				
Other Waste Gas	45,098 cubic feet	1,020 BTU/scf			

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)	Low NO _x Burner	
Pollutant(s) Controlled	NO _x	
Manufacturer	PCC/BEC	
Manufacturer's Guarantee (see Note 2)	99% HCN	
Stack height (feet from ground level)	60.0	
Stack inside diameter (feet)	4.46	
Temperature (°F) at design capacity	1,750°F	
Stack exit velocity (feet per second)	103.8	
Gas volume flow rate: Actual cubic feet per minute	97,178	
Gas volume flow rate: Dry standard cubic feet per minute	14,912	
Unusual stack characteristics (e.g. raincap, horizontal discharge)	None	

-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 1)		
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.)

Emissions from the thermal oxidizer are monitored by CEMS for NO_x. Temperature sensors continually monitor the thermal oxidizer temperature. Monitoring conditions will be maintained per the existing permit requirements.

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.)

The thermal oxidizer will be operated at all times during startup, shutdown and cleaning operations and any resulting process gasses must be ducted through the thermal oxidizer. The thermal oxidizer will also be operated during any upset conditions which results in emissions which are able to be ducted through the thermal oxidizer.

The thermal oxidizer will maintain a minimum temperature of 1,400° F.

**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)	2.30	10.07	See Appendix 6 for detailed emission calculations.
Particulates as PM ₁₀	2.30	10.07	See Appendix 6 for detailed emission calculations.
Sulfur Dioxide	2.60E-03	1.14E-02	See Appendix 6 for detailed emission calculations.
Carbon Monoxide	10.83	38.00	See Appendix 6 for detailed emission calculations.
Oxides of Nitrogen		92.00	The short-term limit was removed from previous permitting. With CEMS, Cyanco will be able to demonstrate compliance with emission limits on an ongoing real time basis with respect to the long term limit. See Appendix 6 for detailed emission calculations.
Volatile Organic Compounds	9.95	43.58	See Appendix 6 for detailed emission calculations.
Lead	2.75E-05	1.20E-04	AP-42 Section 1.4, Table 1.4-2 (7/98), See Appendix 6 for detailed emission calculations.
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Cyanide Compounds	0.68	3.00	See Appendix 6 for detailed emission calculations.
Other HAPs	1.04E-01	4.54E-01	See Appendix 6 for detailed emission calculations.
Other Regulated Pollutants (Specify ²)			See Appendix 6 for detailed emission calculations.

*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.

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

²Other 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**

9Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment Tail Gas Thermal Oxidizer (Plant 2)
- b. Standard Industrial Classification (SIC) Code 2819 (Industrial Inorganic Chemicals, NEC)
- c. Manufacturer of equipment Process Combustion Corporation
- d. Model number _____ Serial number _____ *Equip. number TO-280
- e. Date equipment manufactured: To be completed by mid 2010
- 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 ($\geq 4"$)
 Secondary ($< 4"$ but $\geq 1"$)
 Tertiary ($< 1"$)
- h. Please check if portable: Portable (transportable or movable within the confines of the stationary source)
- i. UTM Coordinates 4532510.22 meters N; 427519.89 meters E; Zone 11
(Please specify NAD 27 or NAD 83)
- j. Basic equipment dimensions (feet): Diameter 7.0 W _____ H 60

*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) 8.0 tons/hr NaCN
- b. Requested operating rate (tons per hour)* 5.2 tons/hr NaCN
- c. Requested operating time: (time of day)* 00:00 to 23:59
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) 70,080 tpy (140 million lbs/yr)
- g. Requested operating rate (tons per year)* 41,500 tpy (83.0 million lbs/yr)
- f. Type of material processed Sodium Cyanide (NaCN)
- g. Minimum moisture content 15 %

*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	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	9,804 cubic feet	1,020 BTU/scf			
*Waste Oil	gallons				
Other (Waste gas)	75,000 cubic feet	1,020 BTU/scf			

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)	Low NOx Burner	
Pollutant(s) Controlled	NOx	
Manufacturer	Process Combustion Corporation	
Manufacturer's Guarantee (see Note 2)	20 lbs NOx (as NO2) / hr; (99% HCN)	
Stack height (feet from ground level)	60.00	
Stack inside diameter (feet)	7.0	
Temperature (°F) at design capacity	1,750 °F	
Stack exit velocity (feet per second)	66.3	
Gas volume flow rate: Actual cubic feet per minute	153,056	
Gas volume flow rate: Dry standard cubic feet per minute	22,434	
Unusual stack charac- teristics (e.g. raincap, horizontal discharge)	None	

-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 1)		

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.)

Emissions from the thermal oxidizer are monitored by CEMS for NO_x. A temperature sensor continually monitors the thermal oxidizer temperature. Monitoring conditions will be maintained per the existing permit requirements.

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.)

The thermal oxidizer will be operated at all times during startup, shutdown and cleaning operations and any resulting process gases must be ducted through the thermal oxidizer. The thermal oxidizer will also be operated during any upset condition which results in emissions which are able to be ducted through the thermal oxidizer.

The thermal oxidizer will maintain a minimum temperature of 1,400 °F.

**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)	2.50	10.95	See Appendix 6 for detailed emission calculations.
Particulates as PM ₁₀	2.50	10.95	See Appendix 6 for detailed emission calculations.
Sulfur Dioxide	2.88E-03	1.26E-02	See Appendix 6 for detailed emission calculations.
Carbon Monoxide	11.97	38.00	See Appendix 6 for detailed emission calculations.
Oxides of Nitrogen		92.00	The short-term limit was removed from previous permitting. With CEMS, Cyanco will be able to demonstrate compliance with emission limits on an ongoing real time basis with respect to the long term limit. See Appendix 6 for detailed emission calculations.
Volatile Organic Compounds	11.00	48.18	See Appendix 6 for detailed emission calculations.
Lead	4.24E-05	1.86E-04	AP-42 Section 1.4, Table 1.4-2 (7/98), See Appendix 6 for detailed emission calculations.
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Cyanide Compounds	0.68	3.00	See Appendix 6 for detailed emission calculations.
Other HAPs	1.60E-01	7.01E-01	See Appendix 6 for detailed emission calculations.
Other Regulated Pollutants (Specify ²)			See Appendix 6 for detailed emission calculations.

*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.

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

²Other 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

9 Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment Plant 1 Diesel-fired Emergency Generator (93.8 HP); Onan Emergency Generator
- b. Standard Industrial Classification (SIC) Code 3621
- c. Manufacturer of equipment Onan Emergency Generator
- d. Model number 60DGCBL36906A Serial number D900311801 *Equip. number EL-0910
- e. Date equipment manufactured: March 1990
- 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 4532627.79 meters N; 427502.89 meters E; Zone 11
(Please specify NAD 27 or NAD 83)
- i. Basic equipment dimensions (feet): L 6' W 5' H 3'

* 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) 93.8 HP
(Please provide for internal combustion engines only)
- b. **Maximum** design heat **INPUT** (million Btu per hour) N/A
(Please provide for all combustion units except for internal combustion engines)
- c. *Requested operating time: time of day N/A to _____
Hours per day 0-24 Days per year 365 Hours per year 500

*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)					
	N/A gallons	N/A	N/A	N/A	N/A
	N/A gallons	N/A	N/A	N/A	N/A
Gasoline	N/A gallons	N/A	N/A	N/A	N/A
Propane	N/A cubic feet	N/A	N/A	N/A	N/A
Natural Gas	N/A cubic feet	N/A	N/A	N/A	N/A
*Waste Oil	N/A gallons	N/A	N/A	N/A	N/A
Other Diesel	4.7 gallons	140,000 Btu/gal	N/A	N/A	N/A

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)								
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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)	Best Operating Practices	
Pollutant(s) Controlled	All pollutants	
Manufacturer	N/A	
Manufacturer's Guarantee (see Note 1)	N/A	
Stack height (feet from ground level)	6'	
Stack inside diameter (feet)	0.196	
Temperature (°F) at design capacity	1150° F	
Stack exit velocity (feet per second)	424.7 fps	
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 charac- teristics (e.g., raincap, horizontal discharge)	N/A	

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.)

N/A

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.)

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

**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)	0.21	0.05	See Appendix 6. Detailed Emissions Calculations
Particulates as PM ₁₀	0.21	0.05	See Appendix 6. Detailed Emissions Calculations
Sulfur Dioxide	0.19	0.05	See Appendix 6. Detailed Emissions Calculations
Carbon Monoxide	0.63	0.16	See Appendix 6. Detailed Emissions Calculations
Oxides of Nitrogen	2.91	0.73	See Appendix 6. Detailed Emissions Calculations
Volatile Organic Compounds	0.24	0.06	See Appendix 6. Detailed Emissions Calculations
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)	2.50E-03	6.26E-04	See Appendix 6. Detailed Emissions Calculations
Other Regulated Pollutants (Specify ²)			See Appendix 6. Detailed Emissions Calculations

*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.

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

²Other 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

9 Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment Plant 2 Diesel-fired Emergency Generator (93.8 HP); Olympian Emergency Generator
- b. Standard Industrial Classification (SIC) Code 3621
- c. Manufacturer of equipment Olympian Emergency Generator
- d. Model number 96A03522-9 Serial number 2028954 *Equip. number EL-0915
- e. Date equipment manufactured: March 1990
- 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 4532579.88 meters N; 427542 meters E; Zone 11
(Please specify NAD 27 or NAD 83)
- i. Basic equipment dimensions (feet): L 6' W 5' H 3'

* 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) 93.8 HP
(Please provide for internal combustion engines only)
- b. **Maximum** design heat **INPUT** (million Btu per hour) N/A
(Please provide for all combustion units except for internal combustion engines)
- c. *Requested operating time: time of day N/A to _____
Hours per day 0-24 Days per year 365 Hours per year 500

*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)					
	N/A gallons	N/A	N/A	N/A	N/A
	N/A gallons	N/A	N/A	N/A	N/A
Gasoline	N/A gallons	N/A	N/A	N/A	N/A
Propane	N/A cubic feet	N/A	N/A	N/A	N/A
Natural Gas	N/A cubic feet	N/A	N/A	N/A	N/A
*Waste Oil	N/A gallons	N/A	N/A	N/A	N/A
Other Diesel	4.7 gallons	140,000 Btu/gal	N/A	N/A	N/A

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)								
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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)	Best Operating Practices	
Pollutant(s) Controlled	All pollutants	
Manufacturer	N/A	
Manufacturer's Guarantee (see Note 1)	N/A	
Stack height (feet from ground level)	6'	
Stack inside diameter (feet)	0.196	
Temperature (°F) at design capacity	1150° F	
Stack exit velocity (feet per second)	424.7 fps	
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 charac- teristics (e.g., raincap, horizontal discharge)	N/A	

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.)

N/A

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.)

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

**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)	0.21	0.05	See Appendix 6. Detailed Emissions Calculations
Particulates as PM ₁₀	0.21	0.05	See Appendix 6. Detailed Emissions Calculations
Sulfur Dioxide	0.19	0.05	See Appendix 6. Detailed Emissions Calculations
Carbon Monoxide	0.63	0.16	See Appendix 6. Detailed Emissions Calculations
Oxides of Nitrogen	2.91	0.73	See Appendix 6. Detailed Emissions Calculations
Volatile Organic Compounds	0.24	0.06	See Appendix 6. Detailed Emissions Calculations
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)	2.50E-03	6.26E-04	See Appendix 6. Detailed Emissions Calculations
Other Regulated Pollutants (Specify ²)			See Appendix 6. Detailed Emissions Calculations

*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.

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

²Other 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 MINOR REVISION**

9 Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment Secondary Well (Back-up Well) Propane-fired Pump Engine (200 HP); 454 Chevrolet Engine
- b. Standard Industrial Classification (SIC) Code 3621
- c. Manufacturer of equipment Chevrolet
- d. Model number 454 Chevrolet Serial number 005600 X-07-NY *Equip. number W-0010 engine.
Date equipment manufactured: 1987
- 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 4532629 meters N; 427871.53 meters E; Zone 11
(Please specify NAD 27 or NAD 83)
- i. Basic equipment dimensions (feet): L 3' W 3' H 3'

* 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) 200 HP
(Please provide for internal combustion engines only)
- b. **Maximum** design heat **INPUT** (million Btu per hour) N/A
(Please provide for all combustion units except for internal combustion engines)
- c. *Requested operating time: time of day N/A to _____

Hours per day 0-24 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)					
	N/A gallons	N/A	N/A	N/A	N/A
	N/A gallons	N/A	N/A	N/A	N/A
Gasoline	N/A gallons	N/A	N/A	N/A	N/A
Propane	5.64 gallons	90,500 Btu/gal	N/A	N/A	N/A
Natural Gas	N/A cubic feet	N/A	N/A	N/A	N/A
*Waste Oil	N/A gallons	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A	N/A

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)								
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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)	Best Operating Practices	
Pollutant(s) Controlled	All pollutants	
Manufacturer	N/A	
Manufacturer's Guarantee (see Note 1)	N/A	
Stack height (feet from ground level)	10'	
Stack inside diameter (feet)	0.33'	
Temperature (°F) at design capacity	750° F	
Stack exit velocity (feet per second)	47.38 fps	
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 charac- teristics (e.g., raincap, horizontal discharge)	N/A	

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.)

N/A

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.)

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

**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)	0.03	0.12	See Appendix 6. Detailed Emissions Calculations
Particulates as PM ₁₀	0.03	0.12	See Appendix 6. Detailed Emissions Calculations
Sulfur Dioxide	1.97E-03	8.62E-03	See Appendix 6. Detailed Emissions Calculations
Carbon Monoxide	0.73	3.18	See Appendix 6. Detailed Emissions Calculations
Oxides of Nitrogen	0.78	3.42	See Appendix 6. Detailed Emissions Calculations
Volatile Organic Compounds	0.47	2.04	See Appendix 6. Detailed Emissions Calculations
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.

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

²Other 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**

9Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

a.	Type of equipment	<u>Hurst Series 400 high pressure steam boiler</u>				
b.	Standard Industrial Classification (SIC) Code	<u>3621</u>				
c.	Manufacturer of equipment	<u>Hurst</u>				
d.	Model number	<u>S400X100-150</u>	Serial number	_____	*Equip. number	<u>BO-930</u>
e.	Date equipment manufactured:	<u>Equipment has not been manufactured yet.</u>				
f.	Please check one:	<input type="checkbox"/> Temporary (At the same location for less than 12 months) <input checked="" type="checkbox"/> Stationary (At the same location for more than 12 months)				
g.	Please check if portable:	<input type="checkbox"/> Portable (transportable or movable within the confines of the stationary source)				
h.	UTM Coordinates	<u>4532521.6</u>	meters N;	<u>427467</u>	meters E; Zone 11	(Please specify NAD 27 <input type="checkbox"/> or NAD 83 <input checked="" type="checkbox"/>)
i.	Basic equipment dimensions (feet):	L <u>13'</u>	W <u>6'</u>	H <u>7'</u>	_____	

* 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)	<u>N/A</u>	(Please provide for internal combustion engines only)
b.	Maximum design heat INPUT (million Btu per hour)	<u>4.2</u>	(Please provide for all combustion units except for internal combustion engines)
c.	*Requested operating time: time of day	<u>N/A</u>	to _____
	Hours per day	<u>0-24</u>	Days per year <u>365</u> Hours per year <u>500</u>

*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	4,200 cubic feet	1,020 Btu/scf			
*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)	Best Operating Practices	
Pollutant(s) Controlled	All pollutants	
Manufacturer	N/A	
Manufacturer's Guarantee (see Note 1)	N/A	
Stack height (feet from ground level)	14'	
Stack inside diameter (feet)	14"	
Temperature (°F) at design capacity	350°F	
Stack exit velocity (feet per second)	21 fps	
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack charac- teristics (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.)

N/A

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.)

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

**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)	0.03	0.137	See Appendix 6. Detailed Emission Calculations
Particulates as PM ₁₀	0.03	0.137	See Appendix 6. Detailed Emission Calculations
Sulfur Dioxide	0.002	0.011	See Appendix 6. Detailed Emission Calculations
Carbon Monoxide	0.35	1.51	See Appendix 6. Detailed Emission Calculations
Oxides of Nitrogen	0.41	1.80	See Appendix 6. Detailed Emission Calculations
Volatile Organic Compounds	0.05	0.20	See Appendix 6. Detailed Emission Calculations
Lead	2.06E-06	9.02E-06	See Appendix 6. Detailed Emission Calculations
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)	0.0008	0.03	See Appendix 6. Detailed Emission Calculations
Other Regulated Pollutants (Specify ²)			See Appendix 6. Detailed Emission Calculations

*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.

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

²Other 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**

9 Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment N/A
- b. Standard Industrial Classification (SIC) Code _____
- c. Manufacturer of equipment _____
- 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 _____ meters N; _____ 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 storage capacity (tons) _____
- b. Maximum loading rate (tons per hour) _____ Loading time (hours to fill) _____
- c. *Requested loading rate (tons per hour): _____
*Hours per day _____ Days per year _____ Hours per year _____
- d. Maximum unloading rate (tons per hour) _____
- e. Method of unloading (screw auger, etc.) _____
- f. Continuous or batch discharge _____
- g. Requested unloading rate (tons per hour) _____
Requested unloading rate (tons per year) _____
- h. Requested unloading time: Hours per day _____ Time of day _____ to _____
Hours per day _____ Days per year _____ Hours per year _____
- i. Material type processed (lime, cement, flyash, etc.) _____

*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 charac- teristics (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 charac- teristics (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.)

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.)

**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)			
Particulates as PM ₁₀			
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.

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

²Other 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)			
Particulates as PM ₁₀			
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.

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

²Other 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.

**LIQUID STORAGE TANK
APPLICATION FORM
CONTINUED**

Section 2 - Operating Parameters

a.	Maximum throughput (gallons per year) _____
b.	Method of filling (submerged fill) _____

Section 3 - Reserved

Section 4 - Pollution Control Equipment (this section *must* be completed)

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, internal floating roof, 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)		
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 charac- teristics (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.

**LIQUID STORAGE TANK
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.)

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.)

**LIQUID STORAGE TANK
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)			
Particulates as PM ₁₀			
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.

¹A list of Hazardous Air Pollutants is contained in Appendix 4.

²Other 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

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

Plant 1 Thermal Oxidizer															
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) Emissions of Particulate Matter - Fuel Burning Equipment 1. Source may not cause or permit the emission of PM₁₀ 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.</p>	None Requested	None Requested	In Compliance (see attached)												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) 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:</p> <table style="margin-left: 40px; border: none;"> <thead> <tr> <th style="text-align: left;">Heat input in millions of</th> <th style="text-align: left;">Maximum allowable emission of particulate matter in pounds per hour per million</th> </tr> </thead> <tbody> <tr> <td>Up to and including 10</td> <td>0.600</td> </tr> <tr> <td>100.</td> <td>0.352</td> </tr> <tr> <td>1,000.</td> <td>0.206</td> </tr> <tr> <td>10,000.</td> <td>0.091</td> </tr> <tr> <td>100,000.</td> <td>0.025</td> </tr> </tbody> </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	None Requested	Calculation, Stack test within 180 days of permit issuance	In Compliance (see attached)
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														
<p>SIP 445.731(1)(b) - (<i>Federally Enforceable SIP Requirement</i>) 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.</p>	None Requested	N/A	In Compliance (see attached)												

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

Plant 1 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i> 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.</p>	None Requested	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i> 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.</p>	None Requested	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i> 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 PM₁₀ 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.</p>	None Requested	N/A	In Compliance (see attached)
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i> 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>	None Requested	N/A	In Compliance (see attached)

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

Plant 1 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
"P" = Process weight rate in kilograms (tons) per hour.			
SIP 445.732 (3) - (<i>Federally Enforceable SIP Requirement</i>) <u>Particulate Matter - Industrial Sources</u> 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.	None Requested	N/A	N/A
NAC 445B.2204, 445B.22043, 445B.22047 (<i>State Only Requirement</i>) <u>Sulfur Emissions - Fuel Burning Equipment</u> 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.	None Requested	Calculation. Natural Gas contains miniscule levels of sulfur.	In Compliance (see attached)
SIP Article 8.1 and 8.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Sulfur Emissions - Fuel Burning Equipment</u> 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.	None Requested	N/A	In Compliance (see attached)

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

Plant 1 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>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:</p> <p style="text-align: center;"> <u>Liquid Fuel</u> <u>Solid Fuels</u> <u>Combination Fuel</u> $Y = 0.7X$ ($Y = 0.4X$) $Y = 1.1X$ ($Y = 0.6X$) $Y = \frac{L(0.7) + S(1.1)}{L + S}$ </p> <p>"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.</p> <p>8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.</p>	None Requested	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<u>State Only Requirement</u>) <u>Other Processes Which Emit Sulfur</u> 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.</p>	None Requested	N/A	N/A
<p>SIP 445.746 - (<u>Federally Enforceable SIP Requirement</u>) <u>Other Sulfur Emitting Processes</u> 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 $\square E \square$ 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.</p>	None Requested	N/A	N/A
<p>SIP 445.746 - (<u>Federally Enforceable SIP Requirement</u>) <u>Other Sulfur Emitting Processes</u></p>	None Requested	N/A	N/A

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

Plant 1 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
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.			
<p>NAC 445B.22017 (<i>State Only Requirement</i>) <u>Maximum Opacity of Emissions</u></p> <p>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:</p> <p>(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.</p> <p>(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).</p> <p>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.</p>	None Requested	N/A	In Compliance
<p>SIP 445.721 (<i>Federally Enforceable SIP Requirement</i>) <u>Visible Emissions from Stationary Sources</u></p> <p>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.</p>	None Requested	N/A	In Compliance

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

Plant 2 Thermal Oxidizer															
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) Emissions of Particulate Matter - Fuel Burning Equipment</p> <p>1. Source may not cause or permit the emission of PM₁₀ resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas:</p> <p>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.</p> <p>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: $Y = 1.02X^{-0.231}$</p> <p>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: $Y = 17.0X^{-0.568}$</p> <p>2. For the purposes of paragraphs b and c of subsection 1:</p> <p>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.</p>	None Requested	None Requested	In Compliance (see attached)												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) Particulate Matter - Fuel Burning Equipment</p> <p>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:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">Heat input in millions of</th> <th style="text-align: right;">Maximum allowable emission of particulate matter in pounds per hour per million</th> </tr> </thead> <tbody> <tr> <td>Up to and including 10</td> <td style="text-align: right;">0.600</td> </tr> <tr> <td>100</td> <td style="text-align: right;">0.352</td> </tr> <tr> <td>1,000</td> <td style="text-align: right;">0.206</td> </tr> <tr> <td>10,000</td> <td style="text-align: right;">0.091</td> </tr> <tr> <td>100,000</td> <td style="text-align: right;">0.025</td> </tr> </tbody> </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	None Requested	Calculation. Stack test within 180 days of permit issuance	In Compliance (see attached)
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														
<p>SIP 445.731(1)(b) - (<i>Federally Enforceable SIP Requirement</i>) Particulate Matter - Fuel Burning Equipment</p> <p>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: $Y = 1.02X^{-0.231}$</p> <p>Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.</p>	None Requested	N/A	In Compliance (see attached)												

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

Plant 2 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i> 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.</p>	None Requested	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i> 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.</p>	None Requested	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i> 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 PM₁₀ 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.</p>	None Requested	N/A	In Compliance (see attached)
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i> 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>	None Requested	N/A	In Compliance (see attached)

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

Plant 2 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
"P" = Process weight rate in kilograms (tons) per hour.			
SIP 445.732 (3) - (<i>Federally Enforceable SIP Requirement</i>) <u>Particulate Matter - Industrial Sources</u> 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.	None Requested	N/A	N/A
NAC 445B.2204, 445B.22043, 445B.22047 (<i>State Only Requirement</i>) <u>Sulfur Emissions - Fuel Burning Equipment</u> 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.	None Requested	Calculation. Natural Gas contains miniscule levels of sulfur.	In Compliance (see attached)
SIP Article 8.1 and 8.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Sulfur Emissions - Fuel Burning Equipment</u> 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.	None Requested	N/A	In Compliance (see attached)

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

Plant 2 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>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:</p> <p style="margin-left: 40px;"> <u>Liquid Fuel</u> <u>Solid Fuels</u> <u>Combination Fuel</u> $Y = 0.7X$ ($Y = 0.4X$) $Y = 1.1X$ ($Y = 0.6X$) $Y = \frac{L(0.7) + S(1.1)}{L + S}$ </p> <p>"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.</p> <p>8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.</p>	None Requested	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<u>State Only Requirement</u>) <u>Other Processes Which Emit Sulfur</u> 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.</p>	None Requested	N/A	N/A
<p>SIP 445.746 - (<u>Federally Enforceable SIP Requirement</u>) <u>Other Sulfur Emitting Processes</u> 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 $\square E \square$ 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.</p>	None Requested	N/A	N/A
<p>SIP 445.746 - (<u>Federally Enforceable SIP Requirement</u>) <u>Other Sulfur Emitting Processes</u></p>	None Requested	N/A	N/A

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

Plant 2 Thermal Oxidizer			
Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
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.			
<p>NAC 445B.22017 (<i>State Only Requirement</i>) <u>Maximum Opacity of Emissions</u></p> <p>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:</p> <p>(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.</p> <p>(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).</p> <p>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.</p>	None Requested	N/A	In Compliance
<p>SIP 445.721 (<i>Federally Enforceable SIP Requirement</i>) <u>Visible Emissions from Stationary Sources</u></p> <p>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.</p>	None Requested	N/A	In Compliance

**SURFACE AREA DISTURBANCE
APPLICATION FORM
CLASS I OPERATING PERMIT**

1. Project Name N/A

2. Surface Area Disturbance Location:

Overall disturbance location description:

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 Control does 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

Instructions

Attachment 1 contains the Approved List of Insignificant Activities. Attachment 3 contains the List of Trivial Activities. Trivial activities are exempted from consideration. **PLEASE RESPOND ON THE INSIGNIFICANT EMISSION UNITS INFORMATION FORM TO SECTIONS 1 THROUGH 4, FOR EACH INSIGNIFICANT EMISSION UNIT** [NAC 445B.295.8].

- Section 1. List all insignificant activities that are exempt pursuant to NAC 445B.288.2(a) through (h), and list the appropriate section that provides for the exemption. Provide information sufficient to show that the exemption applies (a copy of NAC 445B.288.2 is provided in Attachment 2).
- Section 2. List all insignificant activities that are exempted because they are on the list approved and maintained by the Director pursuant to NAC 445B.288.4. Provide information sufficient to show that the exemption applies.
- Section 3. List all proposed insignificant activities that are not already contained in the list in Attachment 1. Provide sufficient description of activities, and all emission calculations and references. The list of proposed insignificant activities must also be submitted, under separate cover, to the Director for his review and approval.
- Section 4. Calculate the maximum uncontrolled emissions for insignificant activities listed under Sections 1 through 3. Emissions calculations must be based on the maximum design throughput, maximum design production rate, maximum design heat input rate value, no controls, and 8760 hours per year of operation, unless otherwise indicated in NAC 445B.288.2 or on the list of approved insignificant activities provided in Attachment 1.

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
Back Up Well Water Pump (Propane Fired)	NAC 445 B.288.(2)(g)	Less than 250 HP
Twelve Space Heaters	NAC 445 B.288.(2)(a)(1)	Less than 4 MM Btu/h
Diesel Tank	NAC 445 B.288.(2)(d)	Less than 40,000 gal
Gas Tank	NAC 445 B.288.(2)(d)	Less than 40,000 gal

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
Sodium Cyanide Storage Tank	Liquid NaCN tanks of any size

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
Cooling Tower 1 (Marley Cooling Tower – Model #NC9161G)
Cooling Tower 2 (Marley Cooling Tower – Model #NC8413WAN)
Warm up Boiler (Hurst Series 400 – Model # S400X100-150)
Technical Service Welder (Onan Engine, Model #P220GIOHV-2252A)

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

Instructions

Complete Table 1 provided in Appendix 3. Table 1 contains the general applicable requirements for the facility. In addition provide the following:

1. List, describe and cite all specific applicable requirements as defined in NAC 445B.019 (e.g., SIP, NAC, NSPS, NESHAPS, 112(r), acid rain, stratospheric ozone, etc.). [NAC 445B.3363.1(g)]
2. Explain any proposed exemption from any specific applicable requirement. [NAC 445B.295.1(f)]
3. Describe methods for determining compliance with each specific applicable requirement. [NAC 445B.295.2(g)]

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
<p>Nevada Revised Statute (NRS) 445B.470 (<i>State Only Requirement</i>) <u>Prohibited Acts</u> Source shall not knowingly:</p> <ol style="list-style-type: none"> 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. 			In Compliance
<p>NAC 445B.22013 (<i>State Only Requirement</i>) <u>Prohibited Discharge</u> 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.</p>			In Compliance
<p>NAC 445B.225 (<i>State Only Requirement</i>) <u>Prohibited Conduct: Concealment of Emissions</u> 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.</p>			In Compliance
<p>State Implementation Plan (SIP) Article 2.2 (<i>Federally Enforceable State Implementation Plan (SIP) Requirement</i>) <u>Circumvention</u> 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.</p>			In Compliance
<p>NAC 445B.326.1 (445.7133.1) <i>Federally Enforceable Part 70 Program</i> <u>Assertion of Emergency as Affirmative Defense to Action for Noncompliance</u> 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:</p> <ol style="list-style-type: none"> 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 			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
facility.			
<p>NAC 445B.315.2.h (445.7112.2.h) <u>Federally Enforceable Part 70 Program</u> 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.</p>			In Compliance
<p>NAC 445B.315.i (445.7145, 445.7112.2.i) <u>Federally Enforceable Part 70 Program</u> Source shall pay fees to the Bureau of Air Quality in accordance with the provisions set forth in NAC 445B.327 and 445B.331.</p>			In Compliance
<p>NAC 445B.315.2.k (445.7112.2.k) <u>Federally Enforceable Part 70 Program</u> 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.</p>			In Compliance
<p>40 CFR 52.21(r)(4) (<u>Federally Enforceable PSD Program</u>) 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.□</p>			In Compliance
<p>(NAC 445B.252) (<u>State Only Requirement</u>) <u>Testing and Sampling</u> 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</p>		Performance testing has been conducted and will continue to be conducted as required by the Director with the required notification and approvals.	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
<p>compliance with the standard.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>6. All testing and sampling will be performed in accordance with recognized methods as specified by the director.</p> <p>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.</p> <p>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.</p>			
<p>SIP Article 2.6 (<i>Federally Enforceable SIP Requirement</i>) <u>Testing and Sampling</u></p> <p>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.</p> <p>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.</p> <p>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.</p>		<p>Performance testing has been conducted and will continue to be conducted as required by the Director with the required notification and approvals.</p>	<p>In Compliance</p>

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
<p>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.</p> <p>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.</p> <p>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.</p> <p>2.6.7 - All testing and sampling will be performed in accordance with recognized methods as specified by the Director.</p> <p>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.</p> <p>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.</p>			
<p>NAC 445B.22067 (<i>State Only Requirement</i>) <u>Open Burning</u> 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.</p>			In Compliance
<p>SIP Article 5.1 (<i>Federally Enforceable SIP Requirement</i>) <u>Open Burning</u> 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.</p>			In Compliance
<p>NAC 445B.22087 (<i>State Only Requirement</i>) <u>Odors</u> Source may not discharge or cause to be discharged, from any stationary source, any material or regulated air</p>			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
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.			
<p>SIP Article 10 (<i>Federally Enforceable SIP Requirement</i>) <u>Odors</u> 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.</p>			In Compliance
<p>NAC 445B.22093 (<i>State Only Requirement</i>) <u>Organic Solvents and Other Volatile Compounds</u></p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. 			In Compliance
<p>SIP Article 9 (<i>Federally Enforceable SIP Requirement</i>) <u>Organic Solvent, other Volatile Compounds</u> 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</p>			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
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.			
<p>SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons)</u> 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.</p> <p>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.</p> <p>9.2.1.2 - Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere.</p>			Not applicable since Cyanco does not own or operate the specified equipment
<p>SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons)</u> (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.</p>			Not applicable since Cyanco does not own or operate the specified equipment
<p>SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons)</u> (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</p>			Not applicable since Cyanco does not own or operate the specified equipment
<p>NAC 445B.22037 (<i>State Only Requirement</i>) <u>Fugitive Dust</u> 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,</p>			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
<p>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, <input type="checkbox"/>best practical methods<input type="checkbox"/> includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.</p> <p>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.</p> <p>4. The provisions of subsections 2 and 3 do not apply to:</p> <ol style="list-style-type: none"> 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. 			
<p>SIP Article 7.3 (<i>Federally Enforceable SIP Requirement</i>) <u>Fugitive Dust</u></p> <p>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.</p> <p>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.</p> <p>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.</p>			In Compliance
<p>NAC 445B.227 (445.664) <u>Federally Enforceable Part 70 Program</u> <u>Facilities Operation</u> Source may not:</p> <ol style="list-style-type: none"> 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. 			In Compliance
<p>The following provisions are applicable requirements of this Operating Permit:</p> <ol style="list-style-type: none"> 1. Source will comply with all applicable provisions of: <ol style="list-style-type: none"> 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; 		Cyanco will comply with all required provisions	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
e. 40 CFR Part 70 - State Operating Permit Program.			
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.		Cyanco's RMP plan was submitted by the deadline	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.			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.			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.			In Compliance

Appendix 4

STREAMLINING AND SHIELD ALLOWANCE

The incorporation of streamlining and a shield allowance is optional. N/A

Use as a guideline the examples in this Appendix to identify and streamline multiple applicable requirements for an emission unit, if desired.

1. Provide a side-by-side comparison of all requirements included in the streamlining proposal that are currently applicable and effective for the specific emission unit.
2. Determine the most stringent emissions and/or performance standard and provide the documentation relied upon to make this determination.
3. Propose one set of permit terms and conditions (i.e. the streamlined requirements) to include the most stringent emissions limitations and/or standards.
4. Certify compliance with applicable requirements.

SAMPLE STREAMLINE DEMONSTRATIONS

System 1					
S2.001 (Make) Boiler, Model ##, Serial ##					
** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #1 - (Make) Boiler S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
Air Pollution Control Technology	<p>60.40c Applicability and delegation of authority. FR Update 5/08/96 (a) Except as provided in paragraph (d) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).</p> <p><i>(HWAD has determined that this boiler was constructed at HWAD Main Base prior to June 9, 1989, and has not been modified or reconstructed since that date. Therefore, the provisions of 60.40c do not currently apply to this boiler.)</i></p>	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Emission Limitations	Not Applicable	<p>445B.362 Fuel-burning equipment 1. No person may cause or permit the emission of PM₁₀ resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas:</p> <p>(b) For input of heat greater than 10 million Btu's per hour, but less than or equal to 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation:</p>	<p>445B.362 Fuel-burning equipment This section of the NAC is not part of the Title V Operating Permit Program regulations utilized by USEPA for program approval.</p>	<p>Article 7.1 Fuel Burning Equipment Article 7.1.1.1 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: $Y = 1.02X^{0.231}$ <i>(Resultant PM Maximum Emissions Allowable:</i></p>	<p>VI.A.2. Emission Limits a. The discharge of PM (particulate matter) to the atmosphere will not exceed 0.32 pound per hour, nor more than 1.38 tons per year. b. The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 0.16 pound per hour, nor more than 0.69 ton per year.</p>

** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #1 - (Make) Boiler S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
		$Y = 1.02X^{0.231}$ 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. <i>(Resultant PM₁₀ Maximum Emissions Allowable: Y = 0.50 pounds per million Btu's, or 11.03 pounds per hour, based on the maximum input heat rate value of 22.1 MMBtu/hr, i.e. the proposed permitted limit is more stringent than the emissions allowed by the NAC.)</i>		$Y = 0.50 \text{ pounds per million Btu's, or } 11.03 \text{ pounds per hour, based on the maximum input heat rate value of } 22.1 \text{ MMBtu/hr, i.e. the proposed permitted limit is more stringent than the emissions allowed by the NAC.}$	
Emission Limitations (Continued)	Not Applicable	445B.373 Fuel-burning equipment 1. No person may cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas 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: $Y = 0.7X$ For the purposes of this subsection: (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. <i>(Resultant Sulfur Maximum Emissions Allowable:</i>	445B.373 Fuel-burning equipment This section of the NAC is not part of the Title V Operating Permit Program regulations utilized by USEPA for program approval.	Article 8 - Sulfur Emissions No person shall cause, suffer, allow or permit the emission of sulfur compounds caused by the combustion of fuel in excess of the quantity set forth in the following table: Article 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 allowable emission shall be calculated by the use of the following equation: $Y = 0.7X$ X = Operating input in millions of kg-cal (Btu's) per hour. Y = Allowable rate of sulfur emissions in kg (pounds) per hour. <i>(Resultant Sulfur Maximum Emissions Allowable:</i>	VI.A.2. Emission Limits c. The discharge of sulfur to the atmosphere will not exceed 0.56 pound per hour, nor more than 2.45 tons per year. VI.A.3. Operating Parameters c. The maximum sulfur content of the #2 diesel fuel will not exceed 0.05 weight percent sulfur.

** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #1 - (Make) Boiler S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
		Y = 15.47 pounds per hour based on the maximum input heat rate value of 22.1 MMBtu/hr. <i>This unit is being limited to a maximum fuel sulfur content of 0.05% and an emission limit of 0.56 pound per hour. Therefore, the resulting permitted maximum emissions allowable is well below the maximum allowed from this formula, i.e. the proposed permitted limit is more stringent than the emissions allowed by the NAC.)</i>		Y = 15.47 pounds per hour based on the maximum input heat rate value of 22.1 MMBtu/hr. <i>This unit is being limited to a maximum fuel sulfur content of 0.05% and an emission limit of 0.56 pound per hour. Therefore, the resulting permitted maximum emissions allowable is well below the maximum allowed from this formula, i.e. the proposed permitted limit is more stringent than the emissions allowed by the NAC.)</i>	
Emission Limitations (Continued)	Not Applicable	445B.354 Maximum opacity of emissions 1. Unless otherwise provided in NAC 445B.354 to 445B.357, inclusive, no owner or operator may cause or permit the discharge into the atmosphere from any stationary source of any regulated air pollutant for a period or periods aggregating more than 3 minutes in any 1 hour which is of an opacity equal to or greater than 20 percent.	445B.354 Maximum opacity of emissions This section of the NAC is not part of the Title V Operating Permit Program regulations utilized by USEPA for program approval.	Article 4 -Visible Emissions From Stationary Sources Article 4.1-Unless otherwise provided herein, no person shall cause, suffer, allow, or permit the discharge into the atmosphere, from any stationary source, any air contaminant for a period or periods aggregating more than three minutes in any one hour which is of an opacity equal to or greater than 20 percent.	VI.A.2. Emission Limits i. The opacity from the S2.001 stack discharge will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one-hour period.
Operating Parameters	Not Applicable	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Work Practice Standard(s)	Not Applicable	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Testing and Sampling	Not Applicable	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Monitoring	PART 60 STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES SUBPART A General Provisions	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.

** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #1 - (Make) Boiler S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
Recordkeeping	See Monitoring Above.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Reporting	See Monitoring above.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Summary of Shielded Requirements	None.	445B.362 Fuel-burning equipment 445B.373 Fuel-burning equipment 445B.354 Maximum opacity of emissions	445B.362 Fuel-burning equipment 445B.373 Fuel-burning equipment 445B.354 Maximum opacity of emissions	Article 7.1.1.1 Article 8.2.1.1 Article 4.1 -Visible Emissions From Stationary Sources	5. <u>Shielded Requirements</u> Compliance with conditions A.1. through A.4. of this section shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit. Permit Requirments (AP9711-0117, issuance date 6/23/95) - Section III.B.2. Emission Limits, a. through f. NAC Requirements (Version dated 1/97) - 445B.362 (Fuel-burning equipment); 445B.373 (Fuel-burning equipment); 445B.354.1 (Maximum opacity of emissions) Applicable SIP Requirements (Version dated 1981) - Article 7.1.1.1 (Fuel Burning Equipment); Article 8.2.1.1 (Sulfur Emissions); Article 4.1 - (Visible Emissions From Stationary Sources)

System 2					
S2.001 (Make) Transfer of Primary Crushed Ore, Model ##, Serial ##					
** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #2 - (Make) Transfer of Primary Crushed Ore S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
Air Pollution Control Technology	No Specific Requirements	No Specific Requirements	No Specific Requirements	No Specific Requirements	No Specific Requirements
Emission Limitations	<p>60.382 Standard for particulate matter.</p> <p>(a) On and after the date on which the performance test required to be conducted by 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from an affected facility any stack emissions that:</p> <p>(1) Contain particulate matter in excess of 0.05 grams per dry standard cubic meter.</p> <p>Note: 0.05 grams/dscm is approx. equal to 0.0218 grains/dscf</p>	<p>445B.363-Sources not otherwise limited</p> <p>1. Owners or operators of stationary sources not otherwise included in NAC 445B.360 to 445B.367, inclusive, shall not cause or permit PM₁₀ 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.</p> <p>2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharged per hour must be determined by using the following equation: E=4.10P^{0.67}</p> <p>3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharged per hour must be determined by using the following equation: E=55P^{0.11}-40</p> <p>4. For the purpose 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.</p> <p>Resultant Maximum Emissions Allowable: E = 96.38 pounds per hour</p>	<p>445B.363. This section of the NAC is not part of the Title V Operating Permit Program regulations utilized by USEPA for program approval.</p>	<p>Article 7.2-Industrial Sources:</p> <p>Article 7.2.2-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 kilograms (tons) per hour</p> <p>Article 7.2.3-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</p> <p>Resultant Maximum Emissions Allowable: E = 96.38 pounds per hour</p>	<p>VI.B.2. Emission Limits</p> <p>a. The discharge of PM (particulate matter) to the atmosphere will not exceed the following:</p> <p>i. The limits specified in B.2.a. of this section and,</p> <p>ii. 0.05 grams per dry standard cubic meter in accordance with 40 CFR Part 60.382(a)(1).</p> <p>b. The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed the limits specified in B.2.b. of this section.</p>

** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #2 - (Make) Transfer of Primary Crushed Ore S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
Testing and Sampling	. 60.386 Test methods and procedures. (a) In conducting the performance tests required in . 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in . 60.8(b). (b) The owner or operator shall determine compliance with the particulate matter standards . 60.382 as follows: (1) Method 5 or 17 shall be used to determine the particulate matter concentration. (2) Method 9 and the procedures in . 60.11 shall be used to determine opacity from stack emissions and process fugitive emissions.	No Specific Requirements	No Specific Requirements	No Specific Requirements	VI.B.4 Monitoring, Record keeping and Compliance f. Initial Performance Testing i. Conduct and record a Method 5 or Method 17 performance test for particulate matter and PM ₁₀ on the exhaust stack of Baghouse (200-DC-005) consisting of three valid runs, within 60 days after achieving the maximum production rate at which the South Area Leach Conveyor - 230-CV-02 Transfer to Conveyor - 230-CV-01 will be operated under the alternative operating scenario, but no later than 180 days after initial startup. ii. Conduct and record a Method 9 visible emissions reading on Baghouse (200-DC-005) concurrently with the initial performance test, and in accordance with the provisions established in 40 CFR Part 60.11(b). The minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test.
Monitoring	Not Applicable	No Specific Requirements	No Specific Requirements	No Specific Requirements	No Specific Requirements
Recordkeeping	Not Applicable	No Specific Requirements	No Specific Requirements	No Specific Requirements	No Specific Requirements
Reporting	Not Applicable	No Specific Requirements	No Specific Requirements	No Specific Requirements	No Specific Requirements
Summary of Shielded Requirements	None.	445B.363.3 Sources not otherwise limited. 445B.354.1 Maximum opacity of emissions	445B.363 Sources not otherwise limited. 445B.354 Maximum opacity of emissions	Article 7.2.3 Article 4.1 -Visible Emissions From Stationary Sources	VI.B.5. Shielded Requirements Compliance with conditions B.1. through B.4. of this section shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this

** Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #2 - (Make) Transfer of Primary Crushed Ore S2.001					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
					operating permit. a. NAC Requirements (Version dated 1/97) - 445B.363.3 (Sources not otherwise limited); 445B.354.1 (Maximum opacity of emissions) b. Applicable SIP Requirements (Version dated 1981) - Article 7.2.3 (Industrial Sources); Article 4.1 - (Visible Emissions From Stationary Sources)

System 3					
PF1.016 (Make) 75' Radial Stacker, Model ##, Serial ##					
**Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #3 (Make) 75' Radial Stacker - PF1.016					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
Air Pollution Control Technology	60.40c Applicability and delegation of authority. FR Update 5/08/96 (No NSPS provisions apply)	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Emission Limitations	Not Applicable	445B.363 Sources not otherwise limited. 1. Owners or operators of stationary sources not otherwise included in NAC 445B.360 to 445B.367, 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. 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharged 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. <i>(Resultant PM₁₀ Maximum Emissions Allowable: 53.46 pounds per hour, based on the maximum allowable throughput rate value of 124 Tons/hr, i.e. the proposed permitted limit is more stringent than the emissions allowed by the NAC.)</i>	445B.363 Sources not otherwise limited. This section of the NAC is not part of the Title V Operating Permit Program regulations utilized by USEPA for program approval.	Article 7.2 Industrial Sources Article 7.2.1 Sources not otherwise included in these regulations 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 Table 1. 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 Articles 7.2.2 or 7.2.3. 7.2.3 When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable weight discharged 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. <i>(Resultant PM Maximum Emissions Allowable: 53.46 pounds per hour, based on the maximum allowable throughput rate value of 124 Tons/hr, i.e. the proposed permitted limit is more stringent than the emissions allowed by the NAC.)</i>	VI.W.2. Emission Limits On and after the date of startup of PF1.016, Department of the Army, Hawthorne Army Depot will not discharge or cause the discharge into the atmosphere from PF1.016, the following pollutants in excess of the following specified limits: a. The discharge of PM (particulate matter) to the atmosphere from PF1.016 will not exceed 0.36 pound per hour, nor more than 1.60 tons per year. b. The discharge of PM ₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere from PF1.016 will not exceed 0.17 pound per hour, nor more than 0.76 ton per year.

**Company Name - Facility Name ** - Comparison of Applicable Requirements					
System #3 (Make) 75' Radial Stacker - PF1.016					
	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
Emission Limitations (Continued)	Not Applicable	445B.354 Maximum opacity of emissions 1. Unless otherwise provided in NAC 445B.354 to 445B.357, inclusive, no owner or operator may cause or permit the discharge into the atmosphere from any stationary source of any regulated air pollutant for a period or periods aggregating more than 3 minutes in any 1 hour which is of an opacity equal to or greater than 20 percent.	445B.354 Maximum opacity of emissions This section of the NAC is not part of the Title V Operating Permit Program regulations utilized by USEPA for program approval.	Article 4 -Visible Emissions From Stationary Sources Article 4.1-Unless otherwise provided herein, no person shall cause, suffer, allow, or permit the discharge into the atmosphere, from any stationary source, any air contaminant for a period or periods aggregating more than three minutes in any one hour which is of an opacity equal to or greater than 20 percent.	VI.W.2. Emission Limits c. The opacity from the PF1.016 will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one-hour period.
Operating Parameters	Not Applicable	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Work Practice Standard(s)	Not Applicable	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Testing and Sampling	Not Applicable	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Monitoring	PART 60 STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES SUBPART A General Provisions	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Recordkeeping	See Monitoring Above.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Reporting	See Monitoring above.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements.	No Specific Requirements Streamlined.
Summary of Shielded Requirements	None.	445B.363.3 Sources not otherwise limited. 445B.354.1 Maximum opacity of emissions	445B.363 Sources not otherwise limited. 445B.354 Maximum opacity of emissions	Article 7.2.3 Article 4.1 -Visible Emissions From Stationary Sources	VI.W.5. Shielded Requirements Compliance with conditions W.1. through W.4. of this section shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit. a. NAC Requirements (Version dated 1/97) - 445B.363.3 (Sources not

****Company Name - Facility Name ** - Comparison of Applicable Requirements**

System #3 (Make) 75' Radial Stacker - PF1.016

	New Source Performance Standards (NSPS), 40 CFR Part 60 Revised as of July 1, 1996	Nevada Administrative Code (NAC) 445B.001 - 445B.395 Revised as of January, 1997	Nevada Administrative Code (NAC) 445B.001 - 445B.395 (Title V Full Approval - November 30, 2001)	State Implementation Plan (SIP) Articles 1 - Article 14 Revised as of August 1981	Draft Operating Permit Requirements
					otherwise limited); 445B.354.1 (Maximum opacity of emissions) b. Applicable SIP Requirements (Version dated 1981) - Article 7.2.3 (Industrial Sources); Article 4.1 - (Visible Emissions From Stationary Sources)

Appendix 5

FACILITY-WIDE POTENTIAL TO EMIT TABLES

Provide the stationary source's total emissions by completing Table 1 and Table 2 of Appendix 5. (Note: Table 1 must include the insignificant activity emissions identified in Table 2.) [NAC 445B.295.8].

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)	See Appendix 5 spreadsheet	
Particulates as PM ₁₀		
Sulfur Dioxide		
Carbon Monoxide		
Oxides of Nitrogen		
Volatile Organic Compounds		
Lead		
Hazardous Air Pollutants (Specify Each Pollutant)		
Other Regulated Pollutants (Specify)		

Appendix 6

DETAILED EMISSIONS CALCULATIONS

Please Attach Emission Calculations

Instructions

1. Provide descriptions of all emissions, and provide emission rates, of any pollutants for which the source is major and all emissions of regulated air pollutants from all emission units. [NAC 445B.3363.1(a), NAC 445B.3363.1(b), NAC 445B.295.8]
2. Provide the emission rates of all regulated air pollutants that are subject to an emissions limitation pursuant to an applicable requirement. The emission rate must be described in pounds per hour and tons per year and in such terms as are necessary to establish compliance using the applicable standard reference test method. [NAC 445B.3363.1(d)]
3. Provide all supporting calculations and documentation of all emission factors for the emission rates specified in 1 and 2 above. This information shall be provided for each emission unit. *(Note: A listing of default emission control efficiency values is contained in Attachment 4.)* [NAC 445B.3363.1(f)]
4. Provide any other information required by any applicable requirement for each emission unit. [NAC 445B.3363.1(e)]
5. Provide all emissions of regulated air pollutants (in pounds per hour and tons per year) from **each insignificant activity** (see Section 4 of Appendix 2 to determine if these calculations are required), and calculations and supporting documentation. The emissions and supporting calculations should reflect all insignificant activities listed in Appendix 2. [NAC 445B.295.8]

Appendix 7

EMISSIONS CAP

Please Attach Emission Cap Information

Please Check if not applicable

Instructions

Federally enforceable emissions cap: Please include in Appendix 7 the information required in 1 through 3 below for each federally enforceable emissions cap in Appendix 7. The request for a federally enforceable emissions cap must, at a minimum:

1. State each applicable requirement which the applicant seeks to avoid [NAC 445B.296.2(a)];
2. Demonstrate that any applicable requirements not avoided by the cap will be met [NAC 445B.296.2(b)];
3. Contain proposed conditions, including monitoring and recordkeeping conditions for each proposed federally enforceable emissions cap, of the operating permit which will ensure compliance with any applicable requirement [NAC 445B.296.2(c)].
4. Contain any additional information that the director determines necessary to process the application. [NAC 445B.296.2(d)]

(Note: A common example of an emissions cap is a combined limitation on the yearly (annual) amount of fuel which may be combusted between two boilers.)

Appendix 8

**NARRATIVE
DESCRIPTION**

-

**PROCESS FLOW
DIAGRAM**

-

PLOT PLAN

-

MAP

-

DUST CONTROL PLAN

Instructions

This Appendix must include the following:

1. A narrative description of the entire process. The narrative must include descriptions of all emissions of any regulated air pollutants for which the source is defined as major, and a description of all emissions of regulated air pollutants from all emission units. [NAC 445B.3363.1(a), NAC 445B.3363.1(b)]
2. A detailed process flow diagram of all processes indicating emissions control application points, throughput rate/design heat input rate value, and emission unit identification numbers. [NAC 445B.295.8]
3. A plot plan of the entire source, drawn to scale (include scale). The plot plan shall include the location of all emission units (clearly labeled), emission release points (stack and/or emission point locations, clearly labeled), the fence line, and the property boundary. [NAC 445B.295.8]
4. A USGS 7-1/2" or 15" map or other topographic map (with topographic lines clearly visible) indicating the following [NAC 445B.295.8]:
 - a. Exact location of entire source (also indicate all areas of surface disturbance).
 - b. Property boundary.
 - c. Location of fence or other physical barrier around source (NOTE: This is required.)
 - d. Scale of map.
 - e. UTM's, if other than a USGS 7-1/2" or 15" map is submitted.
 - f. Elevation contours and contour intervals, and contour values, clearly visible and in sufficient detail to determine elevations.
5. For surface area disturbance that will exceed 20 acres, provide a dust control plan, with the exception of Pahrump Valley. In Pahrump Valley, for surface area disturbance of **5 acres or more**, please provide a dust control plan. [NAC 445B.295.8]

Appendix 9

ENVIRONMENTAL EVALUATION AND DISPERSION MODELING FILES

Please Attach Modeling Files and Supporting Information

Instructions

Environmental Evaluation [NAC 445B.3363.3]:

An applicant for a Class I operating permit or a revision to an operating permit must submit, in Appendix 9, an environmental evaluation for:

1. A new stationary source which emits, or has the potential to emit, greater than 25 tons of a regulated air pollutant per year [NAC 445B.310.1];
2. A modification to an existing stationary source that meets the following criteria [NAC 445B.310.2]:
 - a. The existing stationary source has the potential to emit greater than 25 tons of a regulated air pollutant per year; and
 - b. The proposed modification has the potential to emit greater than 10 tons of a regulated air pollutant per year.
3. The environmental evaluation shall contain all information required in NAC 445B.311.
4. The environmental evaluation includes of dispersion models used to determine the location and estimated value of the highest concentration of regulated air pollutants [NAC 445B.311.4].

Modelling Analyses: [NAC 445B.311.1(f); NAC 445B.311.3; NAC 445B.311.4]

The modelling analyses must utilize the latest USEPA approved or equivalent air dispersion models. The analysis must clearly identify the following information at a minimum.

1. Model
 - Name and type used.
 - Default options used.
2. Emissions Data
 - Source parameters (stack/source height, location, dimensions)
 - Building dimensions
 - Background pollutant concentrations
3. Meteorological Data
 - Location of data set utilized
 - Year of data record utilized
 - Quality of data utilized
 - Method for treating missing data
4. Receptors
 - Grid spacing
 - Excluded receptors from within fence line/property boundary
 - Identify simple or complex terrain

The modeling analysis must be provided in digital format and must consist of both the input and output data files. One hard copy of the input and output files must be provided. All meteorological data utilized that has not been provided by the Bureau of Air Pollution Control must also be submitted in digital format. Please include all modeling files in Appendix 9.

Appendix 10

APPLICATION CERTIFICATION

Please complete the certification checklist for all forms and information provided in your application submittal. The responsible official must sign and date the application certification found in Appendix 9. *If the application is signed by a person other than the responsible official, as defined in NAC 445B.156, the application will be returned as incomplete.*

Note: According to NAC 445B.156, **Responsible Official** means:

1. For a corporation:
 - (a) A president;
 - (b) A vice president in charge of a principal business function;
 - (c) A secretary;
 - (d) A treasurer; or
 - (e) An authorized representative of such a person who is responsible for the overall operation of the facility and who is designated in writing by the officer of the corporation and approved in advance by the director.
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively.
3. For a municipality or a state, federal or other public agency: a ranking elected official or a principal executive officer, including, for a federal agency, a chief executive officer who has responsibility for the overall operations of a principal geographic unit of the agency.
4. For an affected source: the designated representative or his alternate, as defined in 42 U.S. C. § 7651 a (26).

APPLICATION CERTIFICATION

Certification of application content consisting of the following:

(Please check each of the appropriate boxes to indicate the information provided in your application submittal)

General Company Information

General Company Information Form

Emission Unit Application Forms (Appendix 1)

- Industrial Process Application Form(s)
 Combustion Equipment Application Form(s)
 Storage Silos Application Form(s)
 Liquid Storage Tank Application Form(s)
 Surface Area Disturbance Form(s)

Insignificant Emissions Unit Information (Appendix 2)

Insignificant Emissions Unit Information Form(s)

Facility-Wide Applicable Requirements (Appendix 3)

Table 1 - Facility-Wide Applicable Requirements

Streamlining and Shield Allowance (Appendix 4)

Streamlining Demonstration

Facility-Wide Potential To Emit Tables (Appendix 5)

- Table 1 - Facility-Wide Potential To Emit
 Table 2 - Insignificant Activities Potential To Emit

Detailed Emissions Calculations (Appendix 6)

Detailed Emissions Calculations Provided

Emissions Cap Information (Appendix 7)

Emissions Cap Information Provided

Process Narrative, Process Flow Diagram, Plot Plan, Map, Dust Control Plan (Appendix 8)

- Process Narrative Provided
 Flow Diagram Provided
 Plot Plan Provided
 Map Provided
 Dust Control Plan Provided

Dispersion Modelling Files (Appendix 9)

Dispersion Modeling Provided

Application Certification (Appendix 10)

Application Certification

Additional Information Requested by the Director

Any Additional Information Required by the Director

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

- A. A permit applicant must submit supplementary facts or corrected information upon discovery [NAC 445B.297.1(b)].
- B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request [NAC 445B.297.1(c)].
- C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense (NRS 445B.470).

CERTIFICATION: I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this application are true, accurate and complete.

Signature of Responsible Official

Gregory O. Mitch, Plant Manager and Vice President of Operations

Print or Type Name **and** Title

Date