

# **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.*)

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Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95A - PF1.400 and PF1.401**

a. Type of equipment Backfill Crushing & Screening Plant (Aggregate Processing) – Jaw Crusher Pan Feeders 1 & 2 (load)

b. Standard Industrial Classification (SIC) Code 1041

c. Manufacturer of equipment not specified

d. Model number not specified Serial number not specified \*Equip. number not specified

e. Date equipment manufactured: not specified

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 4,539,580 meters N; 551,999 meters E; Zone 11 -  
(Please specify NAD 27  or (NAD 83  Method used to obtain coordinates: AutoCAD file overlay onto USGS map)

j. Basic equipment dimensions (feet): L not specified W not specified H not specified

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

**Section 2 - Design Rate/Operating Parameters**

a. Maximum design capacity (tons per hour) 1,000, total

b. Requested operating rate (tons per hour)\* \_\_\_\_\_

c. Requested operating time: (time of day)\* \_\_\_\_\_ to \_\_\_\_\_  
Hours per day 0-24 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) 3,000,000, total

g. Requested operating rate (tons per year)\* \_\_\_\_\_

f. Type of material processed aggregate

g. Minimum moisture content N/A

\*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.

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APPLICATION FORM  
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**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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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.

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**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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	None	
Pollutant(s) Controlled	N/A	
Manufacturer	N/A	
Manufacturer's Guarantee (see Note 1)	N/A	
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.

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**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<sub>x</sub> 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 these units will be monitored by monthly visible emission assessments. If the visible emission survey detects any visible emissions, a Method 9 opacity test will be conducted and recorded.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**INDUSTRIAL PROCESS  
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**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.046, total</b>	<b>0.069, total</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.016, total</b>	<b>0.024, total</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	N/A	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A

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<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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CLASS I-B**

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95A - PF1.402 and PF1.403**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Aggregate Processing) – Jaw Crusher Pan Feeders 1 &amp; 2 (discharge)</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, total</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, total</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>aggregate</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	
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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.15, total</b>	<b>0.225, total</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.055, total</b>	<b>0.083, total</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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: <math>Y = 1.02X^{-0.231}</math></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: <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) <b>Particulate Matter - Fuel Burning Equipment</b></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: 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	N/A	N/A	N/A
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>) <b>Particulate Matter - Fuel Burning Equipment</b></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: <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <b>Particulate Matter - Fuel Burning Equipment</b>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <b>Particulate Matter - Fuel Burning Equipment</b>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <b>Emissions of Particulate Matter - Sources Not Otherwise Limited</b>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <b>Particulate Matter - Industrial Sources</b>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95A - PF1.411**

a. Type of equipment Backfill Crushing & Screening Plant (Aggregate Processing) – Truck Load-Out Surge Bin (discharge)

b. Standard Industrial Classification (SIC) Code 1041

c. Manufacturer of equipment not specified

d. Model number not specified Serial number not specified \*Equip. number not specified

e. Date equipment manufactured: not specified

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 4,539,580 meters N; 551,999 meters E; Zone 11 -  
(Please specify NAD 27  or (NAD 83  Method used to obtain coordinates: AutoCAD file overlay onto USGS map)

j. Basic equipment dimensions (feet): L not specified W not specified H not specified

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

**Section 2 - Design Rate/Operating Parameters**

a. Maximum design capacity (tons per hour) 1,000

b. Requested operating rate (tons per hour)\* \_\_\_\_\_

c. Requested operating time: (time of day)\* \_\_\_\_\_ to \_\_\_\_\_  
Hours per day 0-24 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) 3,000,000

g. Requested operating rate (tons per year)\* \_\_\_\_\_

f. Type of material processed aggregate

g. Minimum moisture content N/A

\*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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	

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<sub>x</sub> and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

**Emissions from this unit will be monitored by monthly Method 9 opacity tests.**

**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, the emission unit will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.15</b>	<b>0.225</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.055</b>	<b>0.083</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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: 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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math></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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95A - PF1.415 – PF1.416**

a. Type of equipment Backfill Crushing & Screening Plant (Aggregate Processing) – Jaw Crusher Outlet Conveyors 1 & 2

b. Standard Industrial Classification (SIC) Code 1041

c. Manufacturer of equipment not specified

d. Model number not specified Serial number not specified \*Equip. number not specified

e. Date equipment manufactured: not specified

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 4,539,580 meters N; 551,999 meters E; Zone 11 -  
(Please specify NAD 27  or (NAD 83  Method used to obtain coordinates: AutoCAD file overlay onto USGS map

j. Basic equipment dimensions (feet): L not specified W not specified H not specified

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

**Section 2 - Design Rate/Operating Parameters**

a. Maximum design capacity (tons per hour) 1,000, total

b. Requested operating rate (tons per hour)\* \_\_\_\_\_

c. Requested operating time: (time of day)\* \_\_\_\_\_ to \_\_\_\_\_  
Hours per day 0-24 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) 3,000,000, total

g. Requested operating rate (tons per year)\* \_\_\_\_\_

f. Type of material processed aggregate

g. Minimum moisture content N/A

\*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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	

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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.15, total</b>	<b>0.225, total</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.055, total</b>	<b>0.083, total</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>			
<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> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 33%;"><u>Liquid Fuel</u> <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)</td> <td style="text-align: center; width: 33%;"><u>Solid Fuels</u> <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)</td> <td style="text-align: center; width: 33%;"><u>Combination Fuel</u> <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math></td> </tr> </table> <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>	<u>Liquid Fuel</u> $Y = 0.7X$ ( $Y = 0.4X$ )	<u>Solid Fuels</u> $Y = 1.1X$ ( $Y = 0.6X$ )	<u>Combination Fuel</u> $Y = \frac{L(0.7) + S(1.1)}{L + S}$	N/A	N/A	N/A
<u>Liquid Fuel</u> $Y = 0.7X$ ( $Y = 0.4X$ )	<u>Solid Fuels</u> $Y = 1.1X$ ( $Y = 0.6X$ )	<u>Combination Fuel</u> $Y = \frac{L(0.7) + S(1.1)}{L + S}$				
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A			
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A			

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an  
alternative operating scenario

**Section 1 - Equipment Description - System 95A - PF1.417 through PF1.425, and PF1.434**

a.	Type of equipment <u><b>Backfill Crushing &amp; Screening Plant (Aggregate Processing) - Conveyor Transfers</b></u>
b.	Standard Industrial Classification (SIC) Code <u><b>1041</b></u>
c.	Manufacturer of equipment <u><b>not specified</b></u>
d.	Model number <u><b>not specified</b></u> Serial number <u><b>not specified</b></u> *Equip. number <u><b>not specified</b></u>
e.	Date equipment manufactured: <u><b>not specified</b></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><b>4,539,580</b></u> meters N; <u><b>551,999</b></u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u><i>AutoCAD file overlay onto USGS map</i></u> )
j.	Basic equipment dimensions (feet): L <u><b>not specified</b></u> W <u><b>not specified</b></u> H <u><b>not specified</b></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><b>1,000, each</b></u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u><b>0-24</b></u> Days per year <u><b>365</b></u>
d.	Batch load or charge weight (tons) (if applicable) <u><b>N/A</b></u>
e.	Total hours required to process batch or charge (if applicable) <u><b>N/A</b></u>
f.	Maximum operating rate (tons per year) <u><b>3,000,000, each</b></u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u><b>aggregate</b></u>
g.	Minimum moisture content <u><b>N/A</b></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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	
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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.15, each</b>	<b>0.225, each</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.055, each</b>	<b>0.083, each</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	N/A	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95A - PF1.433**

a. Type of equipment Backfill Crushing & Screening Plant (Aggregate Processing) – Stacker Conveyor Transfer

b. Standard Industrial Classification (SIC) Code 1041

c. Manufacturer of equipment not specified

d. Model number not specified Serial number not specified \*Equip. number not specified

e. Date equipment manufactured: not specified

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 4,539,580 meters N; 551,999 meters E; Zone 11 -  
(Please specify NAD 27  or (NAD 83 ) Method used to obtain coordinates: AutoCAD file overlay onto USGS map

j. Basic equipment dimensions (feet): L not specified W not specified H not specified

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

**Section 2 - Design Rate/Operating Parameters**

a. Maximum design capacity (tons per hour) 1,000

b. Requested operating rate (tons per hour)\* \_\_\_\_\_

c. Requested operating time: (time of day)\* \_\_\_\_\_ to \_\_\_\_\_  
Hours per day 0-24 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) 3,000,000

g. Requested operating rate (tons per year)\* \_\_\_\_\_

f. Type of material processed aggregate

g. Minimum moisture content N/A

\*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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	
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<sub>x</sub> and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

**Emissions from this unit will be monitored by monthly visible emission assessments. If the visible emission survey detects any visible emissions, a Method 9 opacity test will be conducted and recorded.**

**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, the emission unit will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.15</b>	<b>0.225</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.055</b>	<b>0.083</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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 border="0" data-bbox="283 816 968 1000"> <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	N/A	N/A	N/A
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														
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<p>SIP 445.731(1)(b) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												
<p>SIP 445.731(1)(c) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></p> <p>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:  <math>Y = 17.0X^{-0.568}</math></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>	N/A	N/A	N/A												

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math>E = 4.10P^{0.67}</math>            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:  <math>E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math>E = 0.0193P^{0.67} (4.10P^{0.67})</math>            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A
<p>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:  <math>E = 11.78P^{0.11} - 18.14 (55P^{0.11} - 40)</math>            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>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-</p>	N/A	N/A	N/A

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status			
<p>burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3.</p> <p>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:  <math>Y = 0.7X</math></p> <p>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, <math>Y = 0.4X</math>  Solid Fuel, <math>Y = 0.6X</math>  Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math></p> <p>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.</p> <p>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.</p>						
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)  "X" = Operating heat input in millions of kg-cal (Btu's) per hour.  "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	N/A	N/A	N/A			
<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> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 33%;"><u>Liquid Fuel</u> <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)</td> <td style="text-align: center; width: 33%;"><u>Solid Fuels</u> <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)</td> <td style="text-align: center; width: 33%;"><u>Combination Fuel</u> <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math></td> </tr> </table> <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>	<u>Liquid Fuel</u> $Y = 0.7X$ ( $Y = 0.4X$ )	<u>Solid Fuels</u> $Y = 1.1X$ ( $Y = 0.6X$ )	<u>Combination Fuel</u> $Y = \frac{L(0.7) + S(1.1)}{L + S}$	N/A	N/A	N/A
<u>Liquid Fuel</u> $Y = 0.7X$ ( $Y = 0.4X$ )	<u>Solid Fuels</u> $Y = 1.1X$ ( $Y = 0.6X$ )	<u>Combination Fuel</u> $Y = \frac{L(0.7) + S(1.1)}{L + S}$				
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math></p> <p>2. For the purposes of subsection 1:  (a) "E" means the allowable sulfur emission in pounds per hour.</p>	N/A	N/A	N/A			

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
(b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.			
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <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:  <math display="block">E = 0.271P^{0.904} \text{ (0.292P}^{0.904}\text{)}</math> When <math>\Delta E \geq</math> 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>	N/A	N/A	N/A
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>  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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>  1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:  (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.  (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).  2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>  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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95B – S2.358.1 and S2.358.2**

a.	Type of equipment <u><b>Backfill Crushing &amp; Screening Plant (Aggregate Crushers and Screens) – Jaw Crushers 1 &amp; 2</b></u>
b.	Standard Industrial Classification (SIC) Code <u><b>1041</b></u>
c.	Manufacturer of equipment <u><b>not specified</b></u>
d.	Model number <u><b>not specified</b></u> Serial number <u><b>not specified</b></u> *Equip. number <u><b>not specified</b></u>
e.	Date equipment manufactured: <u><b>not specified</b></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 checked="" 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><b>4,539,580</b></u> meters N; <u><b>551,999</b></u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u><i>AutoCAD file overlay onto USGS map</i></u> )
j.	Basic equipment dimensions (feet): L <u><b>not specified</b></u> W <u><b>not specified</b></u> H <u><b>not specified</b></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><b>1,000, total</b></u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u><b>0-24</b></u> Days per year <u><b>365</b></u>
d.	Batch load or charge weight (tons) (if applicable) <u><b>N/A</b></u>
e.	Total hours required to process batch or charge (if applicable) <u><b>N/A</b></u>
f.	Maximum operating rate (tons per year) <u><b>3,000,000, total</b></u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u><b>aggregate</b></u>
g.	Minimum moisture content <u><b>N/A</b></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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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  
CLASS I-B**

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95B – S2.358.3**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Aggregate Crushers and Screens) – Cone Crusher 1 and Transfer Belts</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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 checked="" 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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>aggregate</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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  
CLASS I-B**

Check here if this is an  
alternative operating scenario

**Section 1 - Equipment Description - System 95B – S2.358.4 and S2.358.5**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Aggregate Crushers and Screens) – Screens 1 &amp; 2 and Transfer Belts</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, total</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, total</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>aggregate</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

	Control #1 – S2.358*	Control #2
Type of Control (See Note 1)	<b>Baghouse</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Tarmac International Inc.</b>	
Manufacturer's Guarantee (see Note 2)	<b>0.003 gr/dscf</b>	
Stack height (feet from ground level)	<b>31</b>	
Stack inside diameter (feet)	<b>4</b>	
Temperature (°F) at design capacity	<b>Ambient</b>	
Stack exit velocity (feet per second)	<b>155</b>	
Gas volume flow rate: Actual cubic feet per minute	<b>116,687</b>	
Gas volume flow rate: Dry standard cubic feet per minute	<b>65,000</b>	
Unusual stack charac- teristics (e.g. raincap, horizontal discharge)	<b>N/A</b>	

**\*Emissions from S2.358.1 – S2.358.5 are ducted to a common baghouse and stack (S2.358)**

-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)	<b>N/A</b>	
Pollutant(s) Controlled	<b>N/A</b>	
Manufacturer	<b>N/A</b>	
Manufacturer's Guarantee (see Note 1)	<b>N/A</b>	

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<sub>x</sub> 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 S2.358 will be monitored by daily baghouse pressure drop readings and monthly Method 9 opacity tests.**

**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.)

**Emissions from S2.358 will be ducted to a control system consisting of a baghouse. The baghouse will operate in accordance with the manufacturer's recommendations at all times during operation of S2.358, including startup and shutdown.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>1.67</b>	<b>7.32</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>1.67</b>	<b>7.32</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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: 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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95C - PF1.514 and PF1.515**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Processing) - Jaw Crusher Pan Feeders 1 &amp; 2 (load)</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, total</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, total</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	
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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.10, total</b>	<b>0.15, total</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.047, total</b>	<b>0.071, total</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
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REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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: <math>Y = 1.02X^{-0.231}</math></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: <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) <b>Particulate Matter - Fuel Burning Equipment</b></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 border="0" 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	N/A	N/A	N/A
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>) <b>Particulate Matter - Fuel Burning Equipment</b></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: <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an  
alternative operating scenario

**Section 1 - Equipment Description - System 95C - PF1.516 and PF1.517**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Processing) - Jaw Crusher Pan Feeders 1 &amp; 2 (discharge)</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, total</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, total</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	

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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.10, total</b>	<b>0.15, total</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.047, total</b>	<b>0.071, total</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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="width: 100%; border-collapse: collapse;"> <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	N/A	N/A	N/A
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														
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10,000. . . . .	0.091														
100,000. . . . .	0.025														
<p>SIP 445.731(1)(b) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	N/A	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95C - PF1.518**

a. Type of equipment Backfill Crushing & Screening Plant (Ore Processing) – Truck Load-Out Surge Bin (discharge)

b. Standard Industrial Classification (SIC) Code 1041

c. Manufacturer of equipment not specified

d. Model number not specified Serial number not specified \*Equip. number not specified

e. Date equipment manufactured: not specified

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 4,539,580 meters N; 551,999 meters E; Zone 11 -  
(Please specify NAD 27  or (NAD 83 ) Method used to obtain coordinates: AutoCAD file overlay onto USGS map

j. Basic equipment dimensions (feet): L not specified W not specified H not specified

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

**Section 2 - Design Rate/Operating Parameters**

a. Maximum design capacity (tons per hour) 1,000

b. Requested operating rate (tons per hour)\* \_\_\_\_\_

c. Requested operating time: (time of day)\* \_\_\_\_\_ to \_\_\_\_\_  
Hours per day 0-24 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) 3,000,000

g. Requested operating rate (tons per year)\* \_\_\_\_\_

f. Type of material processed ore

g. Minimum moisture content N/A

\*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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	

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<sub>x</sub> and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

**Emissions from this unit will be monitored by monthly Method 9 opacity tests.**

**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, the emission unit will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.10</b>	<b>0.15</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.047</b>	<b>0.071</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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: <math>Y = 1.02X^{-0.231}</math></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: <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) <b>Particulate Matter - Fuel Burning Equipment</b></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: 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	N/A	N/A	N/A
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>) <b>Particulate Matter - Fuel Burning Equipment</b></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: <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>						
<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> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 33%;"><u>Liquid Fuel</u></td> <td style="text-align: center; width: 33%;"><u>Solid Fuels</u></td> <td style="text-align: center; width: 33%;"><u>Combination Fuel</u></td> </tr> <tr> <td style="text-align: center;"><math>Y = 0.7X</math> (<math>Y = 0.4X</math>)</td> <td style="text-align: center;"><math>Y = 1.1X</math> (<math>Y = 0.6X</math>)</td> <td style="text-align: center;"><math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math></td> </tr> </table> <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>	<u>Liquid Fuel</u>	<u>Solid Fuels</u>	<u>Combination Fuel</u>	$Y = 0.7X$ ( $Y = 0.4X$ )	$Y = 1.1X$ ( $Y = 0.6X$ )	$Y = \frac{L(0.7) + S(1.1)}{L + S}$	N/A	N/A	N/A
<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>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A						
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A						

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95C - PF1.519 - PF1.520**

a.	Type of equipment <u><b>Backfill Crushing &amp; Screening Plant (Ore Processing) - Jaw Crusher Outlet Conveyors 1 &amp; 2</b></u>
b.	Standard Industrial Classification (SIC) Code <u><b>1041</b></u>
c.	Manufacturer of equipment <u><b>not specified</b></u>
d.	Model number <u><b>not specified</b></u> Serial number <u><b>not specified</b></u> *Equip. number <u><b>not specified</b></u>
e.	Date equipment manufactured: <u><b>not specified</b></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><b>4,539,580</b></u> meters N; <u><b>551,999</b></u> meters E; Zone 11 - (Please specify NAD 27 <input checked="" type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u><i>AutoCAD file overlay onto USGS map</i></u> )
j.	Basic equipment dimensions (feet): L <u><b>not specified</b></u> W <u><b>not specified</b></u> H <u><b>not specified</b></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><b>1,000, total</b></u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u><b>0-24</b></u> Days per year <u><b>365</b></u>
d.	Batch load or charge weight (tons) (if applicable) <u><b>N/A</b></u>
e.	Total hours required to process batch or charge (if applicable) <u><b>N/A</b></u>
f.	Maximum operating rate (tons per year) <u><b>3,000,000, total</b></u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u><b>ore</b></u>
g.	Minimum moisture content <u><b>N/A</b></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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	

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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.10, total</b>	<b>0.15, total</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.047, total</b>	<b>0.071, total</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status			
<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> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 33%;"><u>Liquid Fuel</u> Y = 0.7X (Y = 0.4X)</td> <td style="text-align: center; width: 33%;"><u>Solid Fuels</u> Y = 1.1X (Y = 0.6X)</td> <td style="text-align: center; width: 33%;"><u>Combination Fuel</u> <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math></td> </tr> </table> <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>	<u>Liquid Fuel</u> Y = 0.7X (Y = 0.4X)	<u>Solid Fuels</u> Y = 1.1X (Y = 0.6X)	<u>Combination Fuel</u> $Y = \frac{L(0.7) + S(1.1)}{L + S}$	N/A	N/A	N/A
<u>Liquid Fuel</u> Y = 0.7X (Y = 0.4X)	<u>Solid Fuels</u> Y = 1.1X (Y = 0.6X)	<u>Combination Fuel</u> $Y = \frac{L(0.7) + S(1.1)}{L + S}$				
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A			
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904} (0.292P^{0.904})</math>  When <math>AE \geq</math> 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>	N/A	N/A	N/A			

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an  
alternative operating scenario

**Section 1 - Equipment Description - System 95C - PF1.521 through PF1.529, and PF1.531**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Processing) – Conveyor Transfers</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, each</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, each</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	
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<sub>x</sub> 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 these units will be monitored by monthly Method 9 opacity tests.**

**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, the emission units will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.10, each</b>	<b>0.15, each</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.047, each</b>	<b>0.071, each</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	N/A	N/A	
Carbon Monoxide	N/A	N/A	
Oxides of Nitrogen	N/A	N/A	
Volatile Organic Compounds	N/A	N/A	
Lead	N/A	N/A	
Hydrogen Sulfide	N/A	N/A	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	N/A	N/A	
Other Regulated Pollutants (Specify <sup>2</sup> )	N/A	N/A	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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 border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 60%;">Heat input in millions of</th> <th style="text-align: right; width: 40%;">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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math></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>	N/A	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95C - PF1.530**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Processing) – Stacker Conveyor Transfer</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

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

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

	Control #1	Control #2
Type of Control (See Note 1)	<b>Pneumatic Water Sprays</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Not Specified</b>	
Manufacturer's Guarantee (see Note 1)	<b>Not Specified</b>	
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<sub>x</sub> and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

**Emissions from this unit will be monitored by monthly visible emission assessments. If the visible emission survey detects any visible emissions, a Method 9 opacity test will be conducted and recorded.**

**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, the emission unit will be operated in a manner consistent with good air pollution control practices.**

**The pneumatic water spray system will be inspected daily to verify that it is operating as designed.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>0.10</b>	<b>0.15</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>0.047</b>	<b>0.071</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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: <math>Y = 1.02X^{-0.231}</math></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: <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) <b>Particulate Matter - Fuel Burning Equipment</b></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 border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 60%;">Heat input in millions of</th> <th style="text-align: right; width: 40%;">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	N/A	N/A	N/A
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>) <b>Particulate Matter - Fuel Burning Equipment</b></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: <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

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

Check here if this is an alternative operating scenario

**Section 1 - Equipment Description - System 95D – S2.359.1 and S2.359.2**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Crushers and Screens) – Jaw Crushers 1 &amp; 2</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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 checked="" 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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, total</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, total</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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  
CLASS I-B**

Check here if this is an  
alternative operating scenario

**Section 1 - Equipment Description - System 95D – S2.359.3**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Crushers and Screens) – Cone Crusher 1 and Transfer Belts</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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 checked="" 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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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  
CLASS I-B**

Check here if this is an  
alternative operating scenario

**Section 1 - Equipment Description - System 95D – S2.359.4 and S2.359.5**

a.	Type of equipment <u>Backfill Crushing &amp; Screening Plant (Ore Crushers and Screens) – Screens 1 &amp; 2 and Transfer Belts</u>
b.	Standard Industrial Classification (SIC) Code <u>1041</u>
c.	Manufacturer of equipment <u>not specified</u>
d.	Model number <u>not specified</u> Serial number <u>not specified</u> *Equip. number <u>not specified</u>
e.	Date equipment manufactured: <u>not specified</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>4,539,580</u> meters N; <u>551,999</u> meters E; Zone 11 - (Please specify NAD 27 <input type="checkbox"/> or (NAD 83 <input checked="" type="checkbox"/> Method used to obtain coordinates: <u>AutoCAD file overlay onto USGS map</u>
j.	Basic equipment dimensions (feet): L <u>not specified</u> W <u>not specified</u> H <u>not specified</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>1,000, total</u>
b.	Requested operating rate (tons per hour)* _____
c.	Requested operating time: (time of day)* _____ to _____ Hours per day <u>0-24</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>3,000,000, total</u>
g.	Requested operating rate (tons per year)* _____
f.	Type of material processed <u>ore</u>
g.	Minimum moisture content <u>N/A</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	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Propane	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Natural Gas	<b>None</b> cubic feet	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
*Waste Oil	<b>None</b> gallons	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Other	<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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)								
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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<sub>x</sub> burner, no control, etc.)

	Control #1 – S2.359*	Control #2
Type of Control (See Note 1)	<b>Baghouse</b>	
Pollutant(s) Controlled	<b>Particulates</b>	
Manufacturer	<b>Tarmac International Inc.</b>	
Manufacturer's Guarantee (see Note 2)	<b>0.003 gr/dscf</b>	
Stack height (feet from ground level)	<b>31</b>	
Stack inside diameter (feet)	<b>4</b>	
Temperature (°F) at design capacity	<b>Ambient</b>	
Stack exit velocity (feet per second)	<b>155</b>	
Gas volume flow rate: Actual cubic feet per minute	<b>116,687</b>	
Gas volume flow rate: Dry standard cubic feet per minute	<b>65,000</b>	
Unusual stack charac- teristics (e.g. raincap, horizontal discharge)	<b>N/A</b>	

**\*Emissions from S2.359.1 – S2.359.5 are ducted to a common baghouse and stack (S2.359)**

-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)	<b>N/A</b>	
Pollutant(s) Controlled	<b>N/A</b>	
Manufacturer	<b>N/A</b>	
Manufacturer's Guarantee (see Note 1)	<b>N/A</b>	

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<sub>x</sub> 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 S2.359 will be monitored by daily baghouse pressure drop readings and monthly Method 9 opacity tests.**

**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.)

**Emissions from S2.359 will be ducted to a control system consisting of a baghouse. The baghouse will operate in accordance with the manufacturer's recommendations at all times during operation of S2.359, including startup and shutdown.**

**INDUSTRIAL PROCESS  
APPLICATION FORM  
CONTINUED**

**Section 7 - Requested Emission Limits**

<b>Pollutant</b>	<b>Potential to Emit (pounds/hour*)</b>	<b>Potential to Emit (tons/year)</b>	<b>Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)</b>
Total Particulate Matter (PM)	<b>1.67</b>	<b>7.32</b>	<b>See Appendix 6.</b>
Particulates as PM <sub>10</sub>	<b>1.67</b>	<b>7.32</b>	<b>See Appendix 6.</b>
Sulfur Dioxide	<b>N/A</b>	<b>N/A</b>	
Carbon Monoxide	<b>N/A</b>	<b>N/A</b>	
Oxides of Nitrogen	<b>N/A</b>	<b>N/A</b>	
Volatile Organic Compounds	<b>N/A</b>	<b>N/A</b>	
Lead	<b>N/A</b>	<b>N/A</b>	
Hydrogen Sulfide	<b>N/A</b>	<b>N/A</b>	
Hazardous Air Pollutants (Specify Each Pollutant <sup>1</sup> )	<b>N/A</b>	<b>N/A</b>	
Other Regulated Pollutants (Specify <sup>2</sup> )	<b>N/A</b>	<b>N/A</b>	

\*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.

<sup>1</sup>A list of Hazardous Air Pollutants is contained in Attachment 4.

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

SECTION 8  
EMISSION UNIT SPECIFIC  
APPLICABLE  
REQUIREMENTS

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>)  <b>Emissions of Particulate Matter - Fuel Burning Equipment</b></p> <p>1. Source may not cause or permit the emission of PM<sub>10</sub> 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:  <math>Y = 1.02X^{-0.231}</math></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:  <math>Y = 17.0X^{-0.568}</math></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.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A												
<p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>)  <b>Particulate Matter - Fuel Burning Equipment</b></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 border="0" 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	N/A	N/A	N/A
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>)  <b>Particulate Matter - Fuel Burning Equipment</b></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:  <math>Y = 1.02X^{-0.231}</math></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>	N/A	N/A	N/A												

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.731(1)(c) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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:  <math display="block">Y = 17.0X^{-0.568}</math>           where "X" = maximum equipment capacity rate in million Btu's per hour.            "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	N/A
<p>SIP 445.731(3) - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Fuel Burning Equipment</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22033, 445B.22027 <i>(State Only Requirement)</i>  <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u>            1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM<sub>10</sub> 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:  <math display="block">E = 4.10P^{0.67}</math>            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:  <math display="block">E = 55P^{0.11} - 40</math>            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>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.732 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Particulate Matter - Industrial Sources</u>            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:  <math display="block">E = 0.0193P^{0.67} (4.10P^{0.67})</math>           "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>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:  <math>E = 11.78P^{0.11} - 18.14</math> (<math>55P^{0.11} - 40</math>)            "E" = Maximum rate of emission in kilograms (pounds) per hour.            "P" = Process weight rate in kilograms (tons) per hour.</p>	<b>Applicable</b>	<b>See Sections 5 and 6 of previous Industrial Process Application Form.</b>	<b>In Compliance</b>
<p>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:  <math>Y = 0.7X</math>            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, <math>Y = 0.4X</math>            Solid Fuel, <math>Y = 0.6X</math>            Combination, <math>Y = (L(0.4) - S(0.6))/(L + S)</math>            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.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p>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:  <math>Y = 1.26X</math> (<math>Y = 0.7X</math>)            "X" = Operating heat input in millions of kg-cal (Btu's) per hour.            "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<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>  <math>Y = 0.7X</math> (<math>Y = 0.4X</math>)              <math>Y = 1.1X</math> (<math>Y = 0.6X</math>)              <math>Y = \frac{L(0.7) + S(1.1)}{L + S}</math> </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>	N/A	N/A	N/A
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>)  <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:  <math>E = 0.292P^{0.904}</math>  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>	N/A	N/A	N/A
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)  <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:  <math>E = 0.271P^{0.904}</math> (<math>0.292P^{0.904}</math>)  When <math>AE \geq</math> 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>	N/A	N/A	N/A

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

<b>Applicable Requirement Citation and Description</b>	<b>Explanation of A Proposed Exemption</b>	<b>Test Methods and/or Monitoring</b>	<b>Compliance Status</b>
<p>SIP 445.746 - <i>(Federally Enforceable SIP Requirement)</i>  <u>Other Sulfur Emitting Processes</u>            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>	N/A	N/A	N/A
<p>NAC 445B.22017 <i>(State Only Requirement)</i>  <u>Maximum Opacity of Emissions</u>            1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:            (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.            (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h).            2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	Applicable	See Sections 5 and 6 of previous Industrial Process Application Form.	In Compliance
<p>SIP 445.721 <i>(Federally Enforceable SIP Requirement)</i>  <u>Visible Emissions from Stationary Sources</u>            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>	N/A	N/A	N/A

**TABLE 1  
POTENTIAL PARTICULATE EMISSIONS OF MODIFIED EMISSION UNITS**

Source No.	Source Description	Material	Process Rate (ton/hr)	Process Rate (ton/yr)	PM Emission Factor	PM10 Emission Factor	PM2.5 Emission Factor	Emission Factor Units	Control Technology	Control Efficiency (%)	PM Calculated Emissions (lb/hr)	PM10 Calculated Emissions (lb/hr)	PM2.5 Calculated Emissions (lb/hr)	PM Calculated Emissions (ton/yr)	PM10 Calculated Emissions (ton/yr)	PM2.5 Calculated Emissions (ton/yr)	Emission Factor Reference	
<b>Sys 95A BACKFILL CRUSHING AND SCREENING PLANT - AGGREGATE PROCESSING</b>																		
PFI.400, PFI.401	Jaw Crusher Pan Feeders 1 and 2 (load)	Aggregate	1,000, tot.	3,000,000, tot.	4.57E-05	1.60E-05	2.42E-06	lb/ton	None	0%	0.046	0.016	0.002	0.069	0.024	0.004	AP-42, Table 11.19.2-2, 8/04 (truck unload-frag stone). PM & PM2.5 multiplier from 13.2.4-4.	
PFI.402, PFI.403	Jaw Crusher Pan Feeders 1 and 2 (discharge)	Aggregate	1,000, tot.	3,000,000, tot.	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.411	Truck Load-Out Surge Bin (discharge)	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.415, PFI.416	Jaw Crusher Outlet Conveyors 1 and 2	Aggregate	1,000, tot.	3,000,000, tot.	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.417	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.418	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.419	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.420	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.421	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.422	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.423	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.424	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.425	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.433	Stacker Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
PFI.434	Conveyor Transfer	Aggregate	1,000	3,000,000	0.0030	1.10E-03	1.67E-04	lb/ton	Pneumatic Water Sprays	95%	0.15	0.055	0.0083	0.225	0.083	0.012	AP-42, Table 11.19.2-2, 8/04 (conveyor transfer). PM2.5 multiplier from 13.2.4-4.	
<b>Sys 95B BACKFILL CRUSHING AND SCREENING PLANT - AGGREGATE CRUSHERS AND SCREENS</b>																		
S2.358.1, S2.358.2	Jaw Crushers 1 and 2	Aggregate	1,000, tot.	3,000,000, tot.														
S2.358.3	Cone Crusher 1 and Transfer Belts	Aggregate	1,000	3,000,000					Emissions ducted to a common baghouse and stack (S2.358)									
S2.358.4, S2.358.5	Screens 1 and 2 and Transfer Belts	Aggregate	1,000, tot.	3,000,000, tot.														
S2.358	Combined				0.003	0.003	0.003	gr/dscf	Baghouse	(0%)*	1.67	1.67	1.67	7.32	7.32	7.32	Based on guarantee & 65,000 dscfm	
<b>Systems 95A and B Total</b>											<b>3.82</b>	<b>2.46</b>	<b>1.79</b>	<b>10.54</b>	<b>8.51</b>	<b>7.49</b>		

\* The control efficiency is already accounted for in the emission factor.

**TABLE 1  
POTENTIAL PARTICULATE EMISSIONS OF MODIFIED EMISSION UNITS**

Source No.	Source Description	Material	Process Rate (ton/hr)	Process Rate (ton/yr)	PM Emission Factor	PM10 Emission Factor	PM2.5 Emission Factor	Emission Factor Units	Control Technology	Control Efficiency (%)	PM Calculated Emissions (lb/hr)	PM10 Calculated Emissions (lb/hr)	PM2.5 Calculated Emissions (lb/hr)	PM Calculated Emissions (ton/yr)	PM10 Calculated Emissions (ton/yr)	PM2.5 Calculated Emissions (ton/yr)	Emission Factor Reference	
<b>Sys 95C BACKFILL CRUSHING AND SCREENING PLANT - ORE PROCESSING</b>																		
PFI.514, PFI.515	Jaw Crusher Pan Feeders 1 and 2 (load)	Ore	1,000, tot.	3,000,000, tot.	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.516, PFI.517	Jaw Crusher Pan Feeders 1 and 2 (discharge)	Ore	1,000, tot.	3,000,000, tot.	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.518	Truck Load-Out Surge Bin (discharge)	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.519, PFI.520	Jaw Crusher Outlet Conveyors 1 and 2	Ore	1,000, tot.	3,000,000, tot.	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.521	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.522	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.523	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.524	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.525	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.526	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.527	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.528	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.529	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.530	Stacker Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
PFI.531	Conveyor Transfer	Ore	1,000	3,000,000	0.0020	9.43E-04	1.43E-04	lb/ton	Pneumatic Water Sprays	95%	0.10	0.047	0.0071	0.15	0.071	0.011	AP-42 Page 13.2.4-4, Rev. 11/06, 8 mph, 3.5% moist.	
<b>Sys 95D BACKFILL CRUSHING AND SCREENING PLANT - ORE CRUSHERS AND SCREENS</b>																		
S2.359.1, S2.359.2	Jaw Crushers 1 and 2	Ore	1,000, tot.	3,000,000, tot.														
S2.359.3	Cone Crusher 1 and Transfer Belts	Ore	1,000	3,000,000					Emissions ducted to a common baghouse and stack (S2.359)									
S2.359.4, S2.359.5	Screens 1 and 2 and Transfer Belts	Ore	1,000, tot.	3,000,000, tot.														
S2.359	Combined				0.003	0.003	0.003	gr/dscf	Baghouse	(0%)*	1.67	1.67	1.67	7.32	7.32	7.32	Based on guarantee & 65,000 dscfm	
<b>Systems 95C and D Total</b>											<b>3.17</b>	<b>2.38</b>	<b>1.78</b>	<b>9.57</b>	<b>8.39</b>	<b>7.49</b>		

\* The control efficiency is already accounted for in the emission factor.