



STATE OF NEVADA
BUREAU OF AIR POLLUTION CONTROL
PROPOSED **NO. AP9711-0863.01**
CLASS I AIR QUALITY OPERATING PERMIT

Issued to: Department of the Army, Hawthorne Army Depot (HWAD)

Section VI. Specific Operating Conditions

A. **Emission Unit S2.001** Location North 4267.92 km, East 355.92 km, UTM (Zone 11)

System 01 - Boiler

S 2.001 24.5 MMBtu/hr Nebraska boiler, model NS-B-34, serial #2D1637, Building 13

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.001** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.001**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.001**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.35 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.70 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** (sulfur dioxide) to the atmosphere will not exceed **2.52 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **3.85 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **2.63 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.14 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0029 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in A.2.a through A.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.001** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum **#2 diesel fuel** consumption rate for **S2.001** will not exceed **175 gallons** per any one-hour period.
 - c. Total combined **#2 diesel fuel** consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.001** will not exceed **24.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.001** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.001**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.001** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.001** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.001**.
 - (f) Observations made and any corrective actions taken on **S2.001** for operation and maintenance in accordance with the manufacturer's guidelines.



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Section VI. Specific Operating Conditions (continued)

A. Emission Unit S2.001 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
 - a. Monitoring and Recordkeeping (continued)
 - (6) Conduct and record a visible emissions reading on **S2.001** on a monthly basis for any month or a portion thereof that **S2.001** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.001** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.001** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.
 - b. Performance/Compliance Testing (NAC 445B.252.1) *State Only Requirement*
Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.001**:
 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph A.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
Compliance with conditions 1 through 4 of this Section will be deemed compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.731 (Particulate Matter - Fuel Burning Equipment) - see streamline analysis provided in Class I Operating Permit Renewal Review, January 2004
 - (2) Article 8.2 (Fuel-Burning Equipment) - see streamline analysis provided in Class I Operating Permit Renewal Review, January 2004
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.2203 (Fuel-Burning Equipment) - see streamline analysis provided in Class I Operating Permit Renewal Review, January 2004
 - (2) 445B.22047 (Fuel-Burning Equipment) - see streamline analysis provided in Class I Operating Permit Renewal Review, January 2004



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Section VI. Specific Operating Conditions (continued)

B. **Emission Unit S2.002** Location North 4267.92 km, East 355.92 km, UTM (Zone 11)

System 02 - Boiler

S 2.002 24.5 MMBtu/hr Nebraska boiler, model NS-B-34, serial #2D1639, Building 13

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.002** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.002**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.002**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.35 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.70 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **2.52 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **3.85 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **2.63 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.14 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0029 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in B.2.a through B.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.002** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum **#2 diesel** fuel consumption rate for **S2.002** will not exceed **175 gallons** per any one-hour period.
 - c. Total combined **#2 diesel** fuel consumption for **S2.001 through S2.005, S2.007, S2.009, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VII.A, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.002** will not exceed **24.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.002** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.002**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.002** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.002** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.002**.
 - (f) Observations made and any corrective actions taken on **S2.002** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.002** on a monthly basis for any month or a portion thereof that **S2.002** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.002** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.002** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

B. Emission Unit S2.002 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.002**:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph B.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

No shield requested.



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Section VI. Specific Operating Conditions (continued)

C. **Emission Unit S2.003** Location North 4269.95 km, East 359.10 km, UTM (Zone 11)

System 03 - Boiler

S 2.003 24.5 MMBtu/hr Nebraska boiler, model NS-B-34, serial #2D1695, Building 103-6

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.003** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.003**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.003**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.35 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.70 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **2.52 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **3.85 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **2.63 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.14 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0029 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in C.2.a through C.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.003** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum #2 diesel fuel consumption rate for **S2.003** will not exceed **175 gallons** per any one-hour period.
 - c. Total combined #2 diesel fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.003** will not exceed **24.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.003** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.003**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.003** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.003** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.003**.
 - (f) Observations made and any corrective actions taken on **S2.003** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.003** on a monthly basis for any month or a portion thereof that **S2.003** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.003** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.003** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

C. Emission Unit S2.003 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.003**:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph C.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

No shield requested.



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Section VI. Specific Operating Conditions (continued)

D. **Emission Unit S2.004** Location North 4269.95 km, East 359.10 km, UTM (Zone 11)

System 04 - Boiler

S 2.004 24.5 MMBtu/hr Nebraska boiler, model NS-B-34, serial #2D1733, Building 103-6

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.004** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.004**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.004**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.35 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.70 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **2.52 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **3.85 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **2.63 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.14 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0029 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in D.2.a through D.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.004** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum #2 diesel fuel consumption rate for **S2.004** will not exceed **175 gallons** per any one-hour period.
 - c. Total combined #2 diesel fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.004** will not exceed **24.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.004** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.004**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.004** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.004** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.004**.
 - (f) Observations made and any corrective actions taken on **S2.004** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.004** on a monthly basis for any month or a portion thereof that **S2.004** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.004** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.004** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

D. Emission Unit S2.004 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.004**:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph D.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

No shield requested.



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Section VI. Specific Operating Conditions (continued)

E. **Emission Unit S2.005** Location North 4269.95 km, East 359.10 km, UTM (Zone 11)

System 05 - Boiler

S 2.005 24.5 MMBtu/hr Nebraska boiler, model NS-B-34, serial #2D1696, Building 103-6

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.005** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.005**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.005**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.35 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.70 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **2.52 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **3.85 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **2.63 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.14 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0029 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in E.2.a through E.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.005** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum #2 diesel fuel consumption rate for **S2.005** will not exceed **175 gallons** per any one-hour period.
 - c. Total combined #2 diesel fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.005** will not exceed **24.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.005** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.005**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.005** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.005** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.005**.
 - (f) Observations made and any corrective actions taken on **S2.005** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.005** on a monthly basis for any month or a portion thereof that **S2.005** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.005** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.005** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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E. Emission Unit S2.005 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.005**:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph E.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

No shield requested.



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Section VI. Specific Operating Conditions (continued)

F. **Emission Unit S2.007** Location North 4266.42 km, East 359.92 km, UTM (Zone 11)

System 06 - Boiler

S 2.007 8.4 MMBtu/hr Mund boiler, model OB55770, serial #11737, Building 49-31

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.007** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.007**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.007**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.13 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.24 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **0.43 pound** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **0.86 pound** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **1.32 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **0.90 pound** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.08 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0010 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in F.2.a through F.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.007** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum #2 diesel fuel consumption rate for **S2.007** will not exceed **60 gallons** per any one-hour period.
 - c. Total combined #2 diesel fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000** gallons annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.007** will not exceed **8.4 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.007** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.007**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.007** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.007** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.007**.
 - (f) Observations made and any corrective actions taken on **S2.007** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.007** on a monthly basis for any month or a portion thereof that **S2.007** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.007** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.007** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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F. Emission Unit S2.007 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.007**:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph F.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

No shield requested.



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Section VI. Specific Operating Conditions (continued)

G. **Emission Unit S2.011** Location North 4273.20 km, East 356.15 km, UTM (Zone 11)

System 07 - Boiler

S 2.011 18.5 MMBtu/hr Cleaver Brooks boiler, model CB-100-400, serial #L89956, Building 117-2

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.011** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.011**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.011**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.26 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.53 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **0.95 pound** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **1.90 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **2.90 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **1.98 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.11 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0022 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in G.2.a through G.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.011** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum #2 diesel fuel consumption rate for **S2.011** will not exceed **132 gallons** per any one-hour period.
 - c. Total combined #2 diesel fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.011** will not exceed **18.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.011** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.011**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.011** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.011** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.011**.
 - (f) Observations made and any corrective actions taken on **S2.011** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.011** on a monthly basis for any month or a portion thereof that **S2.011** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.011** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.011** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

G. Emission Unit S2.011 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement
Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.011**:
 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph G.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
No shield requested.



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Section VI. Specific Operating Conditions (continued)

H. **Emission Unit S2.014** Location North 4273.21 km, East 356.15 km, UTM (Zone 11)

System 08 - Boiler

S 2.014 18.5 MMBtu/hr Cleaver Brooks boiler, model CB-(LE)100-400, serial #L095723, Building 117-2

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.014** shall be controlled by operating the boiler in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.014**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.014**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.26 pound** per hour.
 - b. NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.53 pound** per hour.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **0.95 pound** per hour.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **1.90 pounds** per hour.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **2.90 pounds** per hour.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **1.98 pounds** per hour.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.11 pound** per hour.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.0022 pound** per hour.
 - i. NAC 445B.305 (Federally Enforceable Part 70 Program) - The combined annual discharge of pollutants specified in H.2.a through H.2.h to the atmosphere for **S2.001 through S2.005, S2.011 and S2.014** will not exceed the emissions limitations set forth in Section VII A.1.
 - j. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - k. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.014** may combust #2 diesel fuel as the primary fuel only. Propane may be utilized for initial start-up purposes only. Start-up time will not exceed 30 seconds.
 - b. The maximum **#2 diesel** fuel consumption rate for **S2.014** will not exceed **132 gallons** per any one-hour period.
 - c. Total combined **#2 diesel** fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** will not exceed **3,000,000 gallons** annually, based on a 12-month rolling period (see Section VIIA, Emission Caps).
 - d. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
 - e. The maximum individual operating heat input for **S2.014** will not exceed **18.5 MMBtu** per any one-hour period.
 - f. Hours
 - (1) **S2.014** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.014**.
 - (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.014** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record that the maintenance and operation of **S2.014** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (5) The requirement monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation for **S2.014**.
 - (f) Observations made and any corrective actions taken on **S2.014** for operation and maintenance in accordance with the manufacturer's guidelines.



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Section VI. Specific Operating Conditions (continued)

H. Emission Unit S2.014 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
 - a. Monitoring and Recordkeeping (continued)
 - (6) Conduct and record a visible emissions reading on **S2.014** on a monthly basis for any month or a portion thereof that **S2.014** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.014** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.014** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.
 - b. Performance/Compliance Testing (NAC 445B.252.1) *State Only Requirement*
Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of **S2.014**:
 - (1) Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the particulate matter concentration.
 - (2) Method 201A and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine the PM₁₀ concentration (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A and Method 202 tests required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.a of this Section.
 - (4) Method 6C in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the sulfur dioxide concentration.
 - (5) Method 7E in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the nitrogen oxide concentration.
 - (6) Method 10 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the carbon monoxide concentration.
 - (7) Method 12 in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the lead concentration.
 - (8) Method 25A in Appendix A of 40 CFR Part 60 (or equivalent EPA reference methods as approved in advance by the director) shall be used to determine the volatile organic compound concentration.
 - (9) For the purposes of demonstrating compliance with the opacity standard established in 2.j and 2.k of this Section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (10) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in Paragraph H.3 of this Section, shall be subject to the director's review to determine if the throughputs during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (11) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
No shield requested.



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Section VI. Specific Operating Conditions (continued)

I. **Emission Unit S2.015** Location North 4273.23 km, East 355.61 km, UTM (Zone 11)

System 09 – Melt-Out Process

S 2.015 Melt-out process (2 melt kettles, belt flaker), Building 117-5

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.015** shall be ducted to a control system consisting of an American Air Filter Co. wet scrubber (MD-16) with 100% capture and a maximum volume flow rate of 2,850 actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.015**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the wet scrubber (MD-16) the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.08 pound** per hour, nor more than **0.35 ton** per year, based on a 12-month rolling period. This limit is less than the 6.52 pounds per hour maximum allowable emission limit each as determined from NAC 445B.22033 and the maximum allowable throughput each as limited in 3.a of this Section.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.08 pound** per hour, nor more than **0.35 ton** per year, based on a 12-month rolling period. This limit is less than the 6.52 pounds per hour maximum allowable emission limit each as determined from SIP 445.732 and the maximum allowable throughput as limited in 3.a of this Section.
 - c. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the wet scrubber (MD-16) stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - d. NAC 445B.22017 (State Only Requirement) - The opacity from the wet scrubber (MD-16) stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable charge or weight rate will not exceed **2.00 tons** of explosive material per any one-hour period.
 - b. Hours
 - (1) **S2.015** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee, upon the issuance date of this permit will:
 - (1) Monitor and record the charge or weight rate of each batch or charge loaded to **S2.015** of explosive material on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.015** on a daily basis.
 - (3) Following the determination of the pressure drop value or pressure drop range as required in 4.b.(4), monitor and record the pressure drop across the wet scrubber (MD-16) on a daily basis, during operation. A violation of the emission limitations specified in 2.a and 2.b of this section will have been considered to have occurred if the pressure drop across the wet scrubber (MD-16) is not within the range or is outside the maximum or minimum value established in 4.b.(4).
 - (4) Monitor and record that the maintenance and operation of the wet scrubber (MD-16) is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis. Monthly records must show that observations were made, and records of any corrective action taken.
 - (5) The required monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The charge or weight rate of each batch or charge loaded to **S2.015** of explosive material for that date.
 - (c) The daily total charge or weight rate determined from (b) above.
 - (d) The hours of operation which correspond to the calendar date and batch or charge weight rate.
 - (e) The daily wet scrubber (MD-16) pressure drop observation and the corresponding maximum, minimum or range of the pressure drop established for demonstrating compliance.
 - (f) Observations made and any corrective actions taken on the wet scrubber for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.015** on a monthly basis for any month or a portion thereof that **S2.015** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.015** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.015** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

I. Emission Unit S2.015 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

b. Performance/Compliance Testing (NAC 445B.252.1) *State Only Requirement*

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the wet scrubber.

- (1) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
- (2) A Method 201A test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director for PM₁₀).
- (3) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.b of this section.
- (4) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in 2.a. and 2.b. of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.
- (5) For the purposes of demonstrating compliance with the opacity standard established in 2.c of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
- (6) Performance/compliance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.a of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
- (7) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.

5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

No shield requested.



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Section VI. Specific Operating Conditions (continued)

J. **Emission Unit S2.016** Location North 4272.94 km, East 355.83 km, UTM (Zone 11)

System 10 – Wash-Out/Steam-Out Process

S 2.016 Wash-out-steam-out table, separation tank, 2 melt kettles, kernelling machine, belt flaker, North Tower, Building 117-6

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.016** shall be ducted to a control system consisting of an American Air Filter Co. wet scrubber (WS-24) with 100% capture and a maximum volume flow rate of 3,000 acfm. The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.016**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the wet scrubber (WS-24) the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **1.60 pounds** per hour, nor more than **7.01 tons** per year, based on a 12-month rolling period. This limit is less than the 6.52 pounds per hour maximum allowable emission limit each as determined from NAC 445B.22033 and the maximum allowable throughput each as limited in 3.a of this Section.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **1.60 pounds** per hour, nor more than **7.01 tons** per year, based on a 12-month rolling period. This limit is less than the 6.52 pounds per hour maximum allowable emission limit each as determined from SIP 445.732 and the maximum allowable throughput as limited in 3.a of this Section.
 - c. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the wet scrubber (WS-24) stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - d. NAC 445B.22017 (State Only Requirement) - The opacity from the wet scrubber (WS-24) stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable charge or weight rate will not exceed **2.00 tons** of explosive material per any one-hour period.
 - b. Hours
 - (1) **S2.016** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee, upon the issuance date of this permit will:
 - (1) Monitor and record the charge or weight rate of each batch or charge loaded to **S2.016** of explosive material on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.016** on a daily basis.
 - (3) Following the determination of the pressure drop value or pressure drop range as required in 4.b.(4), monitor and record the pressure drop across the wet scrubber (WS-24) on a daily basis, during operation. A violation of the emission limitations specified in 2.a and 2.b of this section will have been considered to have occurred if the pressure drop across the wet scrubber (WS-24) is not within the range or is outside the maximum or minimum value established in 4.b.(4).
 - (4) Monitor and record that the maintenance and operation of the wet scrubber (WS-24) is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis. Monthly records must show that observations were made, and records of any corrective action taken.
 - (5) The required monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The charge or weight rate of each batch or charge loaded to **S2.016** of explosive material for that date.
 - (c) The daily total charge or weight rate determined from (b) above.
 - (d) The hours of operation which correspond to the calendar date and batch or charge weight rate.
 - (e) The daily wet scrubber (WS-24) pressure drop observation and the corresponding maximum, minimum or range of the pressure drop established for demonstrating compliance.
 - (f) Observations made and any corrective actions taken on the wet scrubber for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.016** on a monthly basis for any month or a portion thereof that **S2.016** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.016** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.016** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

J. Emission Unit S2.016 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the wet scrubber:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
 - (2) A Method 201A test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.b of this section.
 - (4) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in 2.a. and 2.b. of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.
 - (5) For the purposes of demonstrating compliance with the opacity standard established in 2.c of this section, opacity observations shall be conducted concurrently with the performance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (6) Performance/compliance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.a of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (7) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
 - (8) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that corresponds to compliance with the emission limitations established in 2.a and 2.b of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established once every fifth year, with the required corresponding performance test.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
No shield requested



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Section VI. Specific Operating Conditions (continued)

K. **Emission Unit S2.017** Location North 4272.92 km, East 355.85 km, UTM (Zone 11)

System 11 – High Pressure Ambient Temperature Water Wash-Out (West Side)

S 2.017 Wash-out turntable, dewatering screen, drying conveyor, South Tower, Building 117-6

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.017** shall be ducted to a control system consisting of an American Air Filter Co. wet scrubber (HC-15) with 100% capture and a maximum volume flow rate of 8,000 acfm. The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.017**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the wet scrubber (HC-15) the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.56 pound** per hour, nor more than **1.70 tons** per year, based on a 12-month rolling period. This limit is less than the 4.10 pounds per hour maximum allowable emission limit each as determined from NAC 445B.22033 and the maximum allowable throughput each as limited in 3.a of this Section.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.56 pound** per hour, nor more than **1.70 tons** per year, based on a 12-month rolling period. This limit is less than the 4.10 pounds per hour maximum allowable emission limit each as determined from SIP 445.732 and the maximum allowable throughput as limited in 3.a of this Section.
 - c. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the wet scrubber (HC-15) stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - d. NAC 445B.22017 (State Only Requirement) - The opacity from the wet scrubber (HC-15) stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable charge or weight rate will not exceed **1.00 ton** of explosive material per any one-hour period.
 - b. Hours
 - (1) **S2.017** will not operate in excess of 6,024 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the charge or weight rate of each batch or charge loaded to **S2.017** of explosive material on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.017** on a daily basis.
 - (3) Following the determination of the pressure drop value or pressure drop range as required in 4.b.(4), monitor and record the pressure drop across the wet scrubber (HC-15) on a daily basis, during operation. A violation of the emission limitations specified in 2.a and 2.b of this section will have been considered to have occurred if the pressure drop across the wet scrubber (HC-15) is not within the range or is outside the maximum or minimum value established in 4.b.(4).
 - (4) Monitor and record that the maintenance and operation of the wet scrubber (HC-15) is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis. Monthly records must show that observations were made, and records of any corrective action taken.
 - (5) The required monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The charge or weight rate of each batch or charge loaded to **S2.017** of explosive material for that date.
 - (c) The daily total charge or weight rate determined from (b) above.
 - (d) The hours of operation which correspond to the calendar date and batch or charge weight rate.
 - (e) The daily wet scrubber (HC-15) pressure drop observation and the corresponding maximum, minimum or range of the pressure drop established for demonstrating compliance.
 - (f) Observations made and any corrective actions taken on the wet scrubber for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.017** on a monthly basis for any month or a portion thereof that **S2.017** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.017** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.017** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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K. Emission Unit S2.017 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) State Only Requirement

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the wet scrubber:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
 - (2) A Method 201 or 201A test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201 or 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.b of this section.
 - (4) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in 2.a. and 2.b. of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.
 - (5) For the purposes of demonstrating compliance with the opacity standard established in 2.c of this section, opacity observations shall be conducted concurrently with the performance/compliance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (6) Performance/compliance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.a of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (7) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
 - (8) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that corresponds to compliance with the emission limitations established in 2.a and 2.b of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established once every fifth year, with the required corresponding performance test.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
No shield requested.



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Section VI. Specific Operating Conditions (continued)

L. **Emission Unit S2.018** Location North 4272.92 km, East 355.86 km, UTM (Zone 11)

System 12 – Low Pressure Hot Water Wash-Out (East Side)

S 2.018 Wash-out turntable, dewatering screen, drying conveyor, South Tower, Building 117-6

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.018** shall be ducted to a control system consisting of an American Air Filter Co. wet scrubber (HC-12) with 100% capture and a maximum volume flow rate of 2,850 actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.018**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the wet scrubber (HC-12) the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.60 pound** per hour, nor more than **1.81 tons** per year, based on a 12-month rolling period. This limit is less than the 4.10 pounds per hour maximum allowable emission limit each as determined from NAC 445B.22033 and the maximum allowable throughput each as limited in 3.a of this Section.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.60 pound** per hour, nor more than **1.81 tons** per year, based on a 12-month rolling period. This limit is less than the 4.10 pounds per hour maximum allowable emission limit each as determined from SIP 445.732 and the maximum allowable throughput as limited in 3.a of this Section.
 - c. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the wet scrubber (HC-12) stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - d. NAC 445B.22017 (State Only Requirement) - The opacity from the wet scrubber (HC-12) stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable charge or weight rate will not exceed **1.00** ton of explosive material per any one-hour period.
 - b. Hours
 - (1) **S2.018** will not operate in excess of 6,024 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the charge or weight rate of each batch or charge loaded to **S2.018** of explosive material on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.018** on a daily basis.
 - (3) Following the determination of the pressure drop value or pressure drop range as required in 4.b.(4), monitor and record the pressure drop across the wet scrubber (HC-12) on a daily basis, during operation. A violation of the emission limitations specified in 2.a and 2.b of this section will have been considered to have occurred if the pressure drop across the wet scrubber (HC-12) is not within the range or is outside the maximum or minimum value established in 4.b.(4).
 - (4) Monitor and record that the maintenance and operation of the wet scrubber (HC-12) is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis. Monthly records must show that observations were made, and records of any corrective action taken.
 - (5) The required monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The charge or weight rate of each batch or charge loaded to **S2.018** of explosive material for that date.
 - (c) The daily total charge or weight rate determined from (b) above.
 - (d) The hours of operation which correspond to the calendar date and batch or charge weight rate.
 - (e) The daily wet scrubber (HC-12) pressure drop observation and the corresponding maximum, minimum or range of the pressure drop established for demonstrating compliance.
 - (f) Observations made and any corrective actions taken on the wet scrubber for operation and maintenance in accordance with the manufacturer's guidelines.
 - (6) Conduct and record a visible emissions reading on **S2.018** on a monthly basis for any month or a portion thereof that **S2.018** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.018** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.018** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.



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Section VI. Specific Operating Conditions (continued)

L. Emission Unit S2.018 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
 - b. Performance/Compliance Testing (NAC 445B.252.1) *State Only Requirement*

Within 180 days after the date of issuance of this Permit and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the exhaust stack of the wet scrubber:

 - (1) Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine the particulate matter concentration. The sample volume for each test run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
 - (2) A Method 201 or 201A test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director for PM₁₀).
 - (3) The Method 201 or 201A test required in this section may be replaced by a Method 5 test that includes the back-half catch. All particulate captured in the Method 5 tests with back-half catch performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in 2.b of this section.
 - (4) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that correspond to compliance with the emission limitations established in 2.a. and 2.b. of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established with the required corresponding performance test.
 - (5) For the purposes of demonstrating compliance with the opacity standard established in 2.c of this section, opacity observations shall be conducted concurrently with the performance/compliance test and in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals).
 - (6) Performance/compliance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.a of this section, shall be subject to the director's review to determine if the throughputs during the performance/compliance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance/compliance tests do not provide adequate compliance demonstration, the director may require additional performance testing.
 - (7) Permittee shall comply with the requirements of Section I.U.3 through I.U.8 and Section I.V.3 through I.V.8 for all performance testing.
 - (8) During the performance tests required above, establish a pressure drop value (minimum or maximum) or pressure drop range that corresponds to compliance with the emission limitations established in 2.a and 2.b of this section based on a valid performance test. The pressure drop value or pressure drop range will be re-established once every fifth year, with the required corresponding performance test.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
No shield requested.



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Section VI. Specific Operating Conditions (continued)

M. Emission Units PF1.001 through PF1.007 Location Portable within the Main Base Facility

System 13 – Screen

PF 1.001	Material transfer to feed hopper
PF 1.002	Feed hopper transfer to conveyor (C-1)
PF 1.003	Conveyor (C-1) transfer to Fab Tec screen
PF 1.004	Fab Tec 3 deck screen, model #1, serial #P-136-A-91
PF 1.005	Screen discharge #1 (stockpile or conveyor)
PF 1.006	Screen discharge #2 (stockpile or conveyor)
PF 1.007	Screen discharge #3 (stockpile or conveyor)

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **PF1.001 through PF1.007** shall be controlled by operating the units in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **PF1.001 through PF1.007**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.001 through PF1.007**, combined, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **1.15 pounds** per hour combined, nor more than **0.62 ton** per year combined, based on a 12-month rolling period. This limit is less than the 4.10 pounds per hour maximum allowable emission limit each as determined from NAC 445B.22033 and the maximum allowable throughput each as limited in 3.a of this Section.
 - (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **2.41 pound** per hour combined, nor more than **1.30 tons** per year combined, based on a 12-month rolling period.
 - (3) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from **PF1.001 through PF1.007** each will not equal or exceed 20% in accordance with NAC 445.721.
 - (4) NAC 445B.22017 (State Only Requirement) -The opacity from **PF1.001 through PF1.007** each will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **PF1.001 through PF1.007** each will not exceed **60.00 tons** of aggregate per any one-hour period.
 - b. Hours
 - (1) **PF1.001 through PF1.007** each will not operate in excess of 8 hours per day.
 - (2) **PF1.001 through PF1.007** each will not operate in excess of 1,080 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping

Permittee will, upon the issuance date of this permit:

 - (1) Monitor and record the throughput of aggregate for **PF1.001 through PF1.007** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.001 through PF1.007** on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The daily total throughput of aggregate for **PF1.001 through PF1.007** for that date.
 - (c) The start time for aggregate processing of **PF1.001 through PF1.007** for the corresponding date.
 - (d) The end time for aggregate processing of **PF1.001 through PF1.007** for the corresponding date.
 - (e) The total daily hours of operation determined from (c) and (d) above.
 - (4) Conduct and record a visible emissions reading on **PF1.001 through PF1.007** on a monthly basis for any month or a portion thereof that **PF1.001 through PF1.007** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **PF1.001 through PF1.007** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **PF1.001 through PF1.007** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.

 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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Section VI. Specific Operating Conditions (continued)

N. Emission Units PF1.008 through PF1.015 Location Portable within the Main Base Facility

System 14 – Screen and Crusher

PF	1.008	Truck/end dump transfer to grizzly/apron feeder
PF	1.009	Apron feeder transfer to conveyor C-1
PF	1.010	Conveyor C-1 transfer to 3 deck screen
PF	1.011	El Jay 3 deck screen, Model # FSG 5143-24
PF	1.012	3 deck screen transfer to cone crusher
PF	1.013	Cedarapids cone crusher, model WRC-36, serial #36-5-14-3-103-93
PF	1.014	Cone crusher transfer to conveyor C-2
PF	1.015	Conveyor C-2 transfer to conveyor C-1

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **PF1.008** shall be controlled by operating the units in a manner which minimizes emissions. Emissions from **PF1.009 through PF1.015** shall be controlled by water sprays.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **PF1.008 through PF1.015**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.009 through PF1.015**, combined, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.68 pound** per hour, nor more than **0.44 ton** per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **1.43 pounds** per hour, nor more than **0.93 ton** per year, based on a 12-month rolling period.
 - (3) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from **PF1.008 through PF1.015** each will not equal or exceed 20% in accordance with NAC 445.721.
 - (4) NAC 445B.22017 (State Only Requirement) - The opacity from **PF1.008 through PF1.015** each will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **PF1.008 through PF1.015** each will not exceed **93.00 tons** of aggregate per any one-hour period.
 - b. Hours
 - (1) **PF1.008 through PF1.015** each will not operate in excess of 8 hours per day.
 - (2) **PF1.008 through PF1.015** each will not operate in excess of 1,296 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping

Permittee will, upon the issuance date of this permit:

 - (1) Monitor and record the throughput of aggregate for **PF1.008 through PF1.015** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.008 through PF1.015** on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The daily total throughput of aggregate for **PF1.008 through PF1.015** for that date.
 - (c) The start time for aggregate processing of **PF1.008 through PF1.015** for the corresponding date.
 - (d) The end time for aggregate processing of **PF1.008 through PF1.015** for the corresponding date.
 - (e) The total daily hours of operation determined from (c) and (d) above.
 - (4) Conduct and record a visible emissions reading on **PF1.008 through PF1.015** each or as a group on a monthly basis for any month or a portion thereof that **PF1.008 through PF1.015** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **PF1.008 through PF1.015** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **PF1.008 through PF1.015** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.

 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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O. Emission Unit PF1.016 Location Portable within the Main Base Facility

System 15 - Stacker

PF 1.016 Kolberg 75' radial stacker, serial #2374-127-80-75

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **PF1.016** shall be controlled by operating the units in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **PF1.016**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.016** the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.11 ton** per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.36 pound** per hour, nor more than **0.24 ton** per year, based on a 12-month rolling period.
 - (3) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from **PF1.016** will not equal or exceed 20% in accordance with NAC 445.721.
 - (4) NAC 445B.22017 (State Only Requirement) - The opacity from **PF1.016** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **PF1.016** will not exceed **124.00 tons** of aggregate per any one-hour period.
 - b. Hours
 - (1) **PF1.016** will not operate in excess of 1,296 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the throughput of aggregate for **PF1.016** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.016** on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The daily total throughput of aggregate for **PF1.016** for that date.
 - (c) The start time for aggregate processing of **PF1.016** for the corresponding date.
 - (d) The end time for aggregate processing of **PF1.016** for the corresponding date.
 - (e) The total daily hours of operation determined from (c) and (d) above.
 - (4) Conduct and record a visible emissions reading on **PF1.016** on a monthly basis for any month or a portion thereof that **PF1.016** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **PF1.016** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **PF1.016** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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P. **Emission Unit PF1.017** Location Portable within the Main Base Facility

System 16 – Stacker

PF 1.017 Fab Tec 30' radial stacker, serial #30-50-RSH-21-91

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **PF1.017** shall be controlled by operating the units in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **PF1.017**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.017** the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.13 pound** per hour, nor more than **0.08 ton** per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.27 pound** per hour, nor more than **0.18 ton** per year, based on a 12-month rolling period.
 - (3) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from **PF1.017** will not equal or exceed 20% in accordance with NAC 445.721.
 - (4) NAC 445B.22017 (State Only Requirement) - The opacity from **PF1.017** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **PF1.017** will not exceed **93.00 tons** of aggregate per any one-hour period.
 - b. Hours
 - (1) **PF1.017** will not operate in excess of 1,296 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Monitoring and Recordkeeping
Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the throughput of aggregate for **PF1.017** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.017** on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The daily total throughput of aggregate for **PF1.017** for that date.
 - (c) The start time for aggregate processing of **PF1.017** for the corresponding date.
 - (d) The end time for aggregate processing of **PF1.017** for the corresponding date.
 - (e) The total daily hours of operation determined from (c) and (d) above.
 - (4) Conduct and record a visible emissions reading on **PF1.017** on a monthly basis for any month or a portion thereof that **PF1.017** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **PF1.017** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **PF1.017** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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Q. Emission Unit PF1.018 Location Portable within the Main Base Facility

System 17 - Stacker

PF 1.018 Fab Tec 30' radial stacker, serial #30-50-RSH-22-91

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **PF1.018** shall be controlled by operating the units in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **PF1.018**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.018** the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.13 pound** per hour, nor more than **0.08 ton** per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.27 pound** per hour, nor more than **0.18 ton** per year, based on a 12-month rolling period.
 - (3) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from **PF1.018** will not equal or exceed 20% in accordance with NAC 445.721.
 - (4) NAC 445B.22017 (State Only Requirement) - The opacity from **PF1.018** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **PF1.018** will not exceed **93.00 tons** of aggregate per any one-hour period.
 - b. Hours
 - (1) **PF1.018** will not operate in excess of 1,296 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the throughput of aggregate for **PF1.018** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.018** on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The daily total throughput of aggregate for **PF1.018** for that date.
 - (c) The start time for aggregate processing of **PF1.018** for the corresponding date.
 - (d) The end time for aggregate processing of **PF1.018** for the corresponding date.
 - (e) The total daily hours of operation determined from (c) and (d) above.
 - (4) Conduct and record a visible emissions reading on **PF1.018** on a monthly basis for any month or a portion thereof that **PF1.018** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **PF1.018** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **PF1.018** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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R. **Emission Unit PF1.019** Location Portable within the Main Base Facility

System 18 - Stacker

PF 1.019 Fab Tec 30' radial stacker, serial #30-50-RSH-23-91

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **PF1.019** shall be controlled by operating the units in a manner which minimizes emissions.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **PF1.019**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.019** the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.13 pound** per hour, nor more than **0.08 ton** per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.27 pound** per hour, nor more than **0.18 ton** per year, based on a 12-month rolling period.
 - (3) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from **PF1.019** will not equal or exceed 20% in accordance with NAC 445.721.
 - (4) NAC 445B.22017 (State Only Requirement) - The opacity from **PF1.019** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **PF1.019** will not exceed **93.00 tons** of aggregate per any one-hour period.
 - b. Hours
 - (1) **PF1.019** will not operate in excess of 1,296 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the throughput of aggregate for **PF1.019** on a daily basis.
 - (2) Monitor and record the hours of operation of **PF1.019** on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The daily total throughput of aggregate for **PF1.019** for that date.
 - (c) The start time for aggregate processing of **PF1.019** for the corresponding date.
 - (d) The end time for aggregate processing of **PF1.019** for the corresponding date.
 - (e) The total daily hours of operation determined from (c) and (d) above.
 - (4) Conduct and record a visible emissions reading on **PF1.019** on a monthly basis for any month or a portion thereof that **PF1.019** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **PF1.019** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **PF1.019** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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S. **Emission Unit S2.034** Location North 4266.37 km, East 359.87 km, UTM (Zone 11)

System 19 – Plastic Media Blast Booth

S 2.034 Plastic media blast booth, manufactured by Paul & Griffin, model PRAM 11, serial #348, Building 49-SH-9

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.034** shall be controlled by a baghouse (DC-004) with 100% capture and a maximum volume flow rate of 9,000 actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing Method 2 – *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.034**, Permittee will not discharge or cause the discharge into the atmosphere from DC-004 the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **2.22 pounds** per hour, nor more than **1.33 tons** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **2.22 pounds** per hour, nor more than **1.33 tons** per year, based on a 12-month rolling period.
 - c. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of DC-004 will not equal or exceed 20% in accordance with NAC 445.721.
 - d. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge of DC-004 will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable throughput for **S2.034** will not exceed **0.40 ton** of plastic beads per any one-hour period.
 - b. Hours
 - (1) **S2.034** will not operate in excess of 6 hours per day
 - (2) **S2.034** will not operate in excess of 1,200 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the hours of operation of **S2.034** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the baghouse is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The start time for operation of **S2.034** for the corresponding date.
 - (c) The end time for aggregate processing of **S2.034** for the corresponding date.
 - (d) The total daily hours of operation determined from (c) and (d) above.
 - (e) Observations made and any corrective actions taken on the baghouse for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.034** on a monthly basis for any month or a portion thereof that **S2.034** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.034** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.034** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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T. **Emission Unit S2.037** Location North 4269.74 km, East 358.75 km, UTM (Zone 11)

System 20 – Surface Coating Booth

S 2.037 Surface coating booth, manufactured by Devilbiss, serial #23522, Building 103-16

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.037** shall be controlled by a collection system consisting of dry filters with 100% capture.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.037**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.037** the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.01 pound** per hour, nor more than **0.023 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.01 pound** per hour, nor more than **0.05 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **10,080.00 pounds (5.04 tons)** per year, based on a 12-month rolling period.
 - d. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.037** will not equal or exceed 20% in accordance with NAC 445.721.
 - e. NAC 445B.22017 (State Only Requirement) - The opacity from **S2.037** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable VOC throughput for **S2.037** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **10,080.00 pounds (5.04 tons)** per year, based on a 12-month rolling total.
 - b. Hours
 - (1) **S2.037** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.037** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The total VOC emitted (based on VOC content) in pounds from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
 - (c) The total quantity of VOC emitted, at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in 2.c above on a 12-month rolling period.
 - (d) Observations made and any corrective actions taken on the dry filters for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.037** on a monthly basis for any month or a portion thereof that **S2.037** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.037** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.037** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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Section VI. Specific Operating Conditions (continued)

U. **Emission Unit S2.038** Location North 4267.52 km, East 355.87 km, UTM (Zone 11)

System 21 – Surface Coating Booth

S 2.038 Surface coating booth, manufacturer, model and serial # unknown, Building 26

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.038** shall be controlled by a collection system consisting of dry filters with 100% capture.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.038**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.038** the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.0003 pound** per hour, nor more than **0.0013 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.0007 pound** per hour, nor more than **0.0031 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **1,400.00 pounds (0.70 ton)** per year, based on a 12-month rolling period.
 - d. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.038** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with NAC 445.721.
 - e. NAC 445B.22017 (State Only Requirement) - The opacity from **S2.038** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable VOC throughput for **S2.038** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **1,400.00 pounds (0.70 ton)** per year, based on a 12-month rolling total.
 - b. Hours
 - (1) **S2.038** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.038** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The total VOC emitted (based on VOC content) in pounds from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
 - (c) The total quantity of VOC emitted, at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in 2.c above on a 12-month rolling period.
 - (d) Observations made and any corrective actions taken on the dry filters for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.038** on a monthly basis for any month or a portion thereof that **S2.038** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.038** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.038** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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Section VI. Specific Operating Conditions (continued)

V. **Emission Unit S2.039** Location North 4267.52 km, East 355.87 km, UTM (Zone 11)

System 22 – Surface Coating Booth

S 2.039 Surface coating booth, manufacturer, model and serial # unknown, Building 26

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.039** shall be controlled by a collection system consisting of dry filters with 100% capture.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.039**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.039** the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.0003 pound** per hour, nor more than **0.0013 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.0007 pound** per hour, nor more than **0.0031 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **1,400.00 pounds (0.70 ton)** per year, based on a 12-month rolling period.
 - d. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.039** will not equal or exceed 20% in accordance with NAC 445.721.
 - e. NAC 445B.22017 (State Only Requirement) - The opacity from **S2.039** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable VOC throughput for **S2.039** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **1,400.00 pounds (0.70 ton)** per year, based on a 12-month rolling total.
 - b. Hours
 - (1) **S2.039** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.039** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The total VOC emitted (based on VOC content) in pounds from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
 - (c) The total quantity of VOC emitted, at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in 2.c above on a 12-month rolling period.
 - (d) Observations made and any corrective actions taken on the dry filters for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.039** on a monthly basis for any month or a portion thereof that **S2.039** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.039** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.039** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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W. **Emission Unit S2.040** Location North 4266.38 km, East 359.87 km, UTM (Zone 11)

System 23 – Surface Coating Booth

S 2.040 Surface coating booth, manufacturer, model and serial # unknown, Building 49-9

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.040** shall be controlled by a collection system consisting of dry filters with 100% capture.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.040**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.040** the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.0023 pound** per hour, nor more than **0.0099 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.0045 pound** per hour, nor more than **0.0197 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **2,700.00 pounds (1.35 tons)** per year, based on a 12-month rolling period.
 - d. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.040** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with NAC 445.721.
 - e. NAC 445B.22017 (State Only Requirement) - The opacity from **S2.040** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable VOC throughput for **S2.040** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **2,700.00 pounds (1.35 tons)** per year, based on a 12-month rolling total.
 - b. Hours
 - (1) **S2.040** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.040** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The total VOC emitted (based on VOC content) in pounds from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
 - (c) The total quantity of VOC emitted, at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in 2.c above on a 12-month rolling period.
 - (d) Observations made and any corrective actions taken on the dry filters for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.040** on a monthly basis for any month or a portion thereof that **S2.040** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.040** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.040** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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X. **Emission Unit S2.041** Location North 4266.04 km, East 360.53 km, UTM (Zone 11)

System 24 – Surface Coating Booth

S 2.041 Surface coating booth, manufactured by Devilbiss, model #XCF-610, serial #6211-7, Building 104-3

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.041** shall be controlled by a collection system consisting of dry filters with 100% capture.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.041**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.041** the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.005 pound** per hour, nor more than **0.0219 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.005 pound** per hour nor more than **0.0219 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **3,000.00 pounds (1.50 tons)** per year, based on a 12-month rolling period.
 - d. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.041** will not equal or exceed 20% in accordance with NAC 445.721.
 - e. NAC 445B.22017 (State Only Requirement) - The opacity from **S2.041** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable VOC throughput for **S2.041** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **3,000.00 pounds (1.50 tons)** per year, based on a 12-month rolling total.
 - b. Hours
 - (1) **S2.041** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.041** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The total VOC emitted (based on VOC content) in pounds from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
 - (c) The total quantity of VOC emitted, at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in 2.c above on a 12-month rolling period.
 - (d) Observations made and any corrective actions taken on the dry filters for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.041** on a monthly basis for any month or a portion thereof that **S2.041** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.041** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.041** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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Y. **Emission Unit S2.042** Location North 4265.61 km, East 360.77 km, UTM (Zone 11)

System 25 – Surface Coating Booth

S 2.042 Surface coating booth, manufacturer, model and serial # unknown, Building 104-5

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.042** shall be controlled by a collection system consisting of dry filters with 100% capture.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.042**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.042** the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.001 pound** per hour, nor more than **0.0044 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.002 pound** per hour, nor more than **0.0088 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **1,200.00 pounds (0.60 ton)** per year, based on a 12-month rolling period.
 - d. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.042** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with NAC 445.721.
 - e. NAC 445B.22017 (State Only Requirement) - The opacity from **S2.042** will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Maximum allowable VOC throughput for **S2.042** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **1,200.00 pounds (0.60 ton)** per year, based on a 12-month rolling total.
 - b. Hours
 - (1) **S2.042** may operate 8,760 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Permittee will, upon the issuance date of this permit:
 - (1) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.042** on a daily basis.
 - (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with the manufacturer's operation and maintenance guidelines, on a daily basis.
 - (3) The required monitoring and recordkeeping established in (1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The total VOC emitted (based on VOC content) in pounds from all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing material for the corresponding date.
 - (c) The total quantity of VOC emitted, at the end of each calendar month as determined from each daily record. The resultant monthly totals will be added on a consecutive monthly basis and compared against the annual emission limitation established in 2.c on a 12-month rolling period.
 - (d) Observations made and any corrective actions taken on the dry filters for operation and maintenance in accordance with the manufacturer's guidelines.
 - (4) Conduct and record a visible emissions reading on **S2.042** on a monthly basis for any month or a portion thereof that **S2.042** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6 minutes (2, 3-minute averages) and must be made while **S2.042** is operating and has the potential to create visible emissions. The Method 9 visible emission reading requirement can be waived for **S2.042** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Compliance with conditions 1 through 4 above shall be deemed to be compliance with the applicable requirements specified below, as of the issuance date of this operating permit.
 - a. Applicable SIP Requirements (Revised as of February 2002):
 - (1) NAC 445.732 (Emissions of Particulate Matter, Sources not otherwise limited)
 - b. NAC Requirements (Revised as of February 2003):
 - (1) 445B.22033 (Emissions of Particulate Matter, Sources not otherwise limited)



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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 Location North 4265.61 km, East 360.77 km, UTM (Zone 11)

System 26 – Plasma Ordnance Disposal System (PODS)

S 2.043 PODS waste handling and blending, manufactured by MSE Technologies, Inc., model and serial # unknown, Building 117-2

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.043** shall be ducted to a control system consisting of the following equipment:

Secondary Combustion Chamber
Off-gas Quencher
Packed Bed Absorber (Scrubber #1)
High Energy (Hydrosonic) Scrubber (Scrubber#2)
Demister
Superheater
Baghouse
Reheater
Selective Catalytic Reactors

All control equipment is ducted to a single exhaust stack. The system will have 100% capture and a destruction and removal efficiency (DRE) of 99.99% for each Principal Organic Hazardous Constituent (POHC).

2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

a. On and after the date of startup of **S2.043**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.043** the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.0183 pound** per hour, nor more than **0.057 ton** per year, based on a 12-month rolling period.
- (2) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.0183 pound** per hour, nor more than **0.057 ton** per year, based on a 12-month rolling period.
- (3) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **1.75 pounds** per hour, nor more than **5.46 tons** per year, based on a 12-month rolling period.
- (4) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **3.50 pounds** per hour, nor more than **10.90 tons** per year, based on a 12-month rolling period.
- (5) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **6.00 pounds** per hour, nor more than **18.70 tons** per year, based on a 12-month rolling period.
- (6) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **0.27 pound** per hour, nor more than **0.83 ton** per year, based on a 12-month rolling period.
- (7) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.07 pound** per hour, nor more than **0.20 ton** per year, based on a 12-month rolling period.
- (8) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of **S2.043** will not equal or exceed 20% in accordance with NAC 445.721.
- (9) NAC 445B.22017 (State Only Requirement) - The opacity from **S2.043** will not equal or exceed 20% in accordance with NAC 445B.22017.

b. On and after the date of startup of **S2.043**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.043**, the following pollutants in excess of the following specified limits when operating (Adapted from 40 CFR Part 63.1203(b)):

- Dioxin and Furans: 0.20 nanogram (ng) Toxicity Equivalence (TEQ)/dry standard cubic meter (dscm) corrected to 7% oxygen.
- Mercury (Hg): 45 micrograms/dry standard cubic meter (µg/dscm) corrected to 7% oxygen.
- Lead (Pb) and Cadmium (Cd): 24 micrograms/dry standard cubic meter (µg/dscm) combined emissions, corrected to 7% oxygen.
- Arsenic (As), Beryllium (Be), and Chromium (Cr): 97 micrograms/dry standard cubic meter (µg/dscm) combined, corrected to 7% oxygen.
- Hydrochloric (HCl) Acid: 21 parts per million by volume (ppmv), expressed as the sum of and Chlorine (Cl₂) Gas: Hydrochloric Acid (HCl) equivalents, dry basis, corrected to 7% oxygen.
- Particulate Matter (PM): 34 milligrams per dry standard cubic meter (mg/dscm) corrected to 7% oxygen.
- Carbon monoxide (CO): 100 parts per million by volume (ppmv) over an hourly rolling average (monitored continuously with a continuous emissions monitoring system (CEM), dry basis and corrected to 7% oxygen.
- Hydrocarbons (HC): 10 parts per million by volume (ppmv) over an hourly rolling average (monitored continuously with a continuous emission monitoring system (CEM), dry basis, corrected to 7% oxygen, reported as propane, as determined by a Continuous Emissions Monitor (CEM) at any time during destruction and removal efficiency (DRE) testing.



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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

- a. Characterization of Feedstream Munitions Items (Pyrotechnics, Explosives and Propellants) (Adapted from 40 CFR Part 63.1209(c)):
- (1) Permittee will use the Munitions Item Disposition Action System (MIDAS) database to characterize the chemical composition of the ordnance to be treated.
 - (2) Permittee will input the ordnance national stock number (NSN) into the Feed Rate Control System (FRCS). The FRCS will calculate a maximum munition item feed rate in pounds per hour. The PODS control computer will assure this feed rate is not exceeded by monitoring the belt speed and the weight of each belt pocket dumped into the furnace. If the maximum pound per hour rate is exceeded, the belt will automatically shut down.
 - (3) Permittee will monitor the operating parameters specified in the Comprehensive Performance Test Plan (CPTP).
 - (a) Testing will commence at such time as PODS and the control equipment have reached conditions specified by the director as normal operation.
 - (b) The Data Acquisition System will record the operating limits contained in the PTP during each performance test run to acquire the data (i.e., Operating Parameters, Control Parameters and DRE) to establish feed rates.
 - (4) Pollutant Feed Rate Calculations
Permittee will calculate feed rates based on the following formula:

$$\text{Maximum Item Feed Rate (lbs/hr)} = \frac{\text{Pollutant Feed Rate Limit (lbs/hr)} \times \text{Weight of the Item (lb)}}{\text{Weight of Pollutant in the Item (lb)}}$$

Pollutant feed rates will be limited to those amounts that have been demonstrated to meet the emission limits in BB.2 through testing. Maximum pollutant feed rates will be established during the Comprehensive Performance Tests and documented in the test report. Weight of the pollutant in each item will be determined using the MIDAS database.

- (5) Permittee will notify NDEP-BAPC of any munition items processed by PODS emitting any pollutants currently not identified in the PODS database. This database must track all criteria pollutants, hazardous air pollutants or any organic compound listed in 40 CFR Part 261, Appendix VIII.
- b. Destruction and Removal Efficiency (DRE) of Principle Organic Hazardous Constituents (POHCs) (Adapted from 40 CFR Part 63.1203(c)):
- (1) Except as provided under 40 CFR Part 63.1203(c)(2), Permittee must achieve a destruction and removal efficiency (DRE) of 99.99% for each Principle Organic Hazardous Constituent (POHC) designated under 40 CFR Part 63.1203(c)(3). Permittee must calculate DRE for each POHC from the following equation:
$$\text{DRE} = \{1 - (W_{\text{out}}/W_{\text{in}})\} \times 100\%$$

W_{in} = mass feed rate of one POHC in a waste feedstream
 W_{out} = mass feed rate of the same POHC present in exhaust emissions prior to release to the atmosphere
 - (2) If the dioxin-listed hazardous wastes FO20, FO21, FO22, FO23, FO26, or FO27 are burned, Permittee must achieve a DRE of 99.9999% for each POHC that is designated under 40 CFR Part 63.1203(c)(3). Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. Permittee must use the equation in (1) above to calculate DRE for each POHC. In addition, Permittee must notify the Administrator and NDEP-BAPC of their intent to incinerate hazardous wastes FO20, FO21, FO22, FO23, FO26, or FO27.
 - (3) Operating limits and parameters must be established during the Comprehensive Performance Test (or during a previous DRE test pursuant to 40 CFR Part 63.1206(b)(7)). Normal operating parameters must be consistent with the established parameters.
 - (4) Principle Organic Hazardous Constituents (POHC)
 - (a) A POHC shall be defined as any of the organic compounds listed in Appendix VIII of 40 CFR Part 261 and established in 42 USC 7412(b)(1). Pursuant to 40 CFR Part 63.1203(c)(3)(ii), POHCs present in the PODS feedstream must be identified on the basis of their degree of difficulty of incineration of the organic constituents in the feedstream and on their concentration or mass in the feed, considering the results of the feedstream analyses or other data and information. POHCs present must be treated to the extent required in VI.BB(3)(b)(1) and (2).
 - (b) Permittee must treat the POHCs in the waste feed that it specifies under 40 CFR Part 63.1203(c)(3)(ii) to the extent required by 40 CFR Part 63.1203(c)(1) and (c)(2).
 - (c) Permittee must specify one or more POHCs from the list of hazardous air pollutants established by 42 USC 7412(b)(1), excluding caprolactam (CAS number 105602) as provided by 40 CFR Part 63.60, for each waste to be burned. Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the waste and on their concentration or mass in the waste feed, considering the results of waste analyses or other data and information.



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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)

- c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (p)):
Emissions from S2.043 shall be ducted to a control system consisting of the following equipment:

Secondary Combustion Chamber
Off-gas Quencher
Packed Bed Absorber (Scrubber #1)
High Energy (Hydrosonic) Scrubber (Scrubber #2)
Demister
Superheater
Baghouse
Reheater
Selective Catalytic Reactors

All control equipment is ducted to a single exhaust stack. The system will have 100% capture and a Destruction and Removal Efficiency (DRE) of 99.99% for each Principle Organic Hazardous Constituent (POHC).

- (1) For each control device that is not a Hydrosonic wet scrubber or baghouse but is operated to comply with the particulate matter emission standards of this Subpart, Permittee must ensure that the control device is properly operated and maintained as required by 40 CFR Part 63.1206(c)(7) and by monitoring the operation of the control device as follows:
- (a) During each comprehensive performance test conducted to demonstrate compliance with the particulate matter emission standard, Permittee must establish a range of operating values that are representative and reliable indicators of the operation of the control device. The control device must be operated within the same range of parameters and conditions as during the performance test.
 - (b) Permittee must select a set of operating parameters appropriate for the control device design that it determines to be a representative and reliable indicator of the control device performance.
 - (c) Permittee must measure and record values for each operating parameter during each test run of the performance test. A value for each selected parameter must be recorded using a continuous monitor.
 - (d) For each selected operating parameter measured in accordance with the requirements above, Permittee must establish a minimum operating parameter limit or a maximum operating parameter limit, as appropriate for the parameter, to define the operating limits within which the control device can operate and still continuously achieve the same operating conditions as during the performance test.
 - (e) Permittee must prepare written documentation to support the operating parameter limits established for the control device and must include this documentation in the performance test plan that it submits for review and approval. This documentation must include a description for each selected parameters and the operating range and monitoring frequency required to ensure the control device is being properly operated and maintained.
 - (f) Permittee must install, calibrate, operate, and maintain a monitoring device equipped with a recorder to measure the values for each operating parameter selected in accordance with the requirements above. Permittee must install, calibrate, and maintain the monitoring equipment in accordance with the equipment manufacturer's specifications. The recorder must record the detector responses at least every 60 seconds, as required in the definition of continuous monitor.
 - (g) Permittee must regularly inspect the data recorded by the operating parameter monitoring system at a sufficient frequency to insure the control device is operating properly. An excursion is determined to have occurred any time that the actual value of a selected operating parameter is less than the minimum operating limit (or, if applicable, greater than the maximum operating limit) established for the parameter in accordance with the requirements above.
 - (h) Operating parameters selected in accordance with 40 CFR Part 63.1209(m) may be based on manufacturer specifications provided you support the use of manufacturer specifications in the performance test plan that must be submitted for review and approval.
- (2) For the Secondary Combustion Chamber, Permittee must:
- (a) Establish the minimum temperature of the secondary combustion chamber, during each comprehensive performance test, as the average of test run averages.
 - (b) Install, calibrate, operate, and maintain a temperature monitoring device equipped with a recorder. During operation, the temperature recorder must record the operating temperature at least every 60 seconds, as required in the definition of continuous monitor.
 - (c) Establish the maximum combustion chamber pressure, during each comprehensive performance test.
 - (d) Comply with the requirements for combustion system leaks under 40 CFR Part 63.1206(c)(5) by maintaining the maximum combustion chamber zone pressure lower than ambient pressure. Permittee must monitor the pressure instantaneously and automatic waste feed cutoff system must be engaged when negative pressure is not maintained at any time.



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Z. Emission Unit S2.043 (continued)

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)

- c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (p)) (continued)
- (3) For the absorber (Scrubber No.1) Permittee must:
 - (a) Establish a minimum pressure drop across the absorber on an hourly rolling average, as the average of the test run averages.
 - (b) Establish a limit on minimum liquid feed pressure for the absorber based on manufacturer's specifications and comply with the limit on an hourly rolling average.
 - (c) Establish a limit on minimum pH on an hourly rolling average as the average of the test run averages.
 - (d) Establish limits on either the minimum liquid to gas ratio or the minimum scrubber water flow rate and minimum flue gas flow rate on an hourly rolling average, as the average of the test run averages.
 - (4) For the hydrosonic wet scrubber (Scrubber No. 2) Permittee must:
 - (a) Establish the minimum atomizing air pressure for the wet scrubber on an hourly rolling average, during each comprehensive test, as the average of the test run averages.
 - (b) To ensure that the solids content of the scrubber liquid does not exceed levels during the performance test, Permittee must either establish a limit on solids content of the scrubber liquid using a CMS or by manual sampling and analysis. If Permittee elects to monitor solids content manually, then the scrubber liquid must be sampled and analyzed hourly unless Permittee supports an alternative monitoring frequency in the performance test plan that is submitted for review and approval; or establish a minimum blowdown rate using a CMS and either a minimum scrubber tank volume or liquid level using a CMS.
 - (c) For maximum solids content monitored with a CMS, establish a limit on a twelve-hour rolling average as the average of the test run averages.
 - (d) For maximum solids content measured manually, Permittee must establish an hourly limit, as measured at least once per hour, unless Permittee supports an alternative monitoring frequency in the performance test plan that is submitted for review and approval. Permittee must establish the maximum hourly limits as the average of the manual measurement averages for each run.
 - (e) For minimum blowdown rate and either a minimum scrubber tank volume or liquid level using a CMS, Permittee must establish a limit on an hourly rolling average as the average of the test run averages.
 - (f) Permittee must establish limits on either the minimum liquid to gas ratio or the minimum scrubber water flow rate and maximum flue gas flow rate on an hourly rolling average. Permittee must establish these hourly rolling average limits as the average of the test run average.
 - (5) For the baghouses, Permittee must establish a limit on minimum pressure drop and maximum pressure drop across each baghouse cell based on manufacturer's specifications and comply with the limit on an hourly rolling average.
 - (6) For the Selective Catalytic Reactor, Permittee must:
 - (a) Establish a limit on minimum flue gas temperature at the entrance of the catalyst on an hourly rolling average, as the average of the test run averages.
 - (b) Replace the catalyst with a new catalyst when it has reached the maximum service time specified by the manufacturer.
 - (c) Replace the catalyst with a new catalyst that is equivalent to or better than the one used during the previous comprehensive test, pursuant to 40 CFR Part 63.1209(k)(8).
 - (d) Establish a maximum flow gas temperature limit at the entrance of the catalyst as an hourly rolling average, based on manufacturer's specifications.
 - (7) Destruction and Removal Efficiency (DRE). To remain in compliance with the DRE standard, Permittee must establish operating limits during the comprehensive performance test (or during a previous DRE test under provisions of 40 CFR Part 63.1206(b)(7)) for the parameters listed in 40 CFR Part 63.1209(j), unless the limits are based on manufacturer specifications, and comply with those limits at all times that hazardous waste remains in the combustion chamber.
 - (8) Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS). Permittee must:
 - (a) Use a CEMS to demonstrate and monitor compliance with the carbon monoxide and hydrocarbon standards under 40 CFR Part 63.1209.
 - (b) Use an oxygen CEMS to continuously correct the carbon monoxide and hydrocarbon levels to 7 percent oxygen.
 - (c) Install, calibrate, maintain, and operate a particulate matter CEMS to demonstrate and monitor compliance with the particulate matter standards under 40 CFR Part 63.1209. However, compliance with the requirements in this section to install, calibrate, maintain and operate the PM CEMS is not required until such time that the Agency promulgates all performance specifications and operational requirements applicable to PM CEMS.
 - (d) Permittee must install, calibrate, maintain, and continuously operate the CEMS and COMS in compliance with the quality assurance procedures provided in the appendix to Subpart EEE and Performance Specifications 1 (opacity), 4B (carbon monoxide and oxygen), and 8A (hydrocarbons) pursuant to 40 CFR Part 60, Appendix B.
 - (e) Permittee may petition the Administrator to use CEMS for compliance monitoring for particulate matter, mercury, semi-volatile metals, low volatile metals, and hydrochloric acid/chlorine gas under 40 CFR Part 63.8(f) in lieu of compliance with the corresponding operating parameter limits under this section.
 - (f) Operating Parameter Limits for Hydrocarbons. Permittee has elected to comply with the carbon monoxide and hydrocarbon emission standards by continuously monitoring carbon monoxide with a CEMS. Permittee must demonstrate that hydrocarbon emissions during the comprehensive performance test do not exceed the hydrocarbon emission standard. In addition, the limits established on the DRE operating parameters required under paragraph 40 CFR Part 63.1209(j) of this section also must ensure compliance with the hydrocarbon emission standard. If Permittee does not conduct the hydrocarbon demonstration and DRE tests concurrently, separate operating parameter limits must be established pursuant to 40 CFR Part 63.1209(j) based on each test and the more restrictive of the operating parameter limits applies.



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Z. Emission Unit S2.043 (continued)

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)

- c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (p)) (continued)
- (9) Other Continuous Monitoring Systems (CMS). Permittee must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits under 40 CFR Part 63.1209. Permittee must install and operate non-CMS in conformance with 40 CFR Part 63.8(c)(3) that requires the facility at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system. Span limits must be linked to the automatic waste fee cutoff system required by 40 CFR Part 63.1206(c)(3).
 - (10) Performance Evaluations. The requirements of 40 CFR Part 63.8(d) and (3) (Quality Control Program and Performance Evaluation of Continuous Monitoring Systems) apply, except that Permittee must conduct performance evaluations of components of the CMS under the frequency and procedures (for example, submittal of performance evaluation test plan for review and approval) applicable to performance tests as provided by 40 CFR Part 63.1207. Permittee must comply with the quality assurance procedures for CEMS prescribed in the appendix to this Subpart.
 - (11) Conduct of Monitoring. The provisions of 40 CFR Part 63.8(b) apply.
 - (12) Operation and Maintenance of Continuous Monitoring Systems. The provisions of 40 CFR Part 63.8(c) apply except 63.8(c)(3). The requirements of 40 CFR Part 63.1211(d), that requires CMS to be installed, calibrated, and operation on the compliance date, shall be complied with instead of 40 CFR Part 63.8(c)(3). The performance specifications for carbon monoxide, hydrocarbon and oxygen CEMS in 40 CFR Part 60, Subpart B that requires detectors to measure the sample concentration at least once every 15 seconds for calculating an average emission rate once every 60 seconds shall be complied with instead of 40 CFR Part 63.8(c)(4)(ii).
 - (13) Alternative Monitoring Requirements Other Than CEMS.
 - (a) Permittee may submit an application to the Administrator under this paragraph for approval of alternative monitoring requirements to document compliance with the emission standards of this Subpart. For requests to use additional CEMS, however, refer to 40 CFR Part 63.1209(a)(5) and 40 CFR Part 63.8(f). The Administrator will not approve averaging periods for operating parameters limits longer than specified in this section unless Permittee documents using data or information that the longer averaging period will ensure that emissions do not exceed levels achieved during the comprehensive performance test over any increment of time equivalent to the time required to conduct three runs of the performance test. If the Administrator approves the application to use an alternative monitoring requirement, Permittee must continue to use that alternative monitoring requirement until it receives approval under this paragraph to use another monitoring requirement.
 - (b) Permittee may submit an application to waive an operating parameter limit specified in this section based on documentation that neither the operating parameter limit nor an alternative operating parameter limit is needed to ensure compliance with the emission standard of this Subpart.
 - (c) Permittee must comply with the procedures specified in 40 CFR Part 63.1209(g)(1)(iii) for applications submitted under 40 CFR Part 63.1209(g)(1)(i) and (ii).
 - (14) Reduction of Monitoring Data. The provisions of 40 CFR Part 63.8(g) apply.
 - (15) Calculation of Rolling Averages/Rolling Periods
 - (a) Calculation of rolling averages initially. Continuous monitoring systems must begin recording one-minute average values at 12:01 am on the compliance data and begin recording rolling averages when enough one-minute average values are available to calculate the required rolling average (e.g., when 60 one-minute averages are available to calculate an hourly rolling average; when 720 one-minute averages are available to calculate a 12-hour rolling average).
 - (b) Calculation of rolling averages upon intermittent operations. Permittee must ignore periods of time when one-minute values are not available for calculating rolling averages. When one-minute values become available again, the first one-minute value is added to the previous one-minute values to calculate rolling averages.
 - (c) Calculation of rolling averages when the hazardous waste feed is cut off. Permittee must continue to monitor operating parameter limits with a CMS when the hazardous waste feed is cut off if the source is operating. Permittee must not resume feeding hazardous waste if an operating parameter exceeds its limit. You are not subject to the CMS requirements of this Subpart during periods of time Permittee meets the requirements of 40 CFR Part 63.1206(b)(1)(ii).
 - (16) Analysis of Feed Streams. Prior to feeding the material, Permittee must perform an analysis of each feedstream that is sufficient to document compliance with the applicable feed rate limits provided by this section. Permittee must develop and implement a feedstream analysis plan and record it in the operating record. Because of safety issues in performing laboratory analyses of feedstreams for this facility, the Permittee is allowed as an alternative to utilize the Munition Item Disposition Action System (MIDAS) database to determine compliance with feed rate limits. The Permittee will develop a feedstream analysis plan based upon MIDAS which will specify the parameters to be analyzed, and demonstrate how the analyses documents compliance with applicable feed rate limits.



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Z. Emission Unit S2.043 (continued)

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)

- c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (p)) (continued)
- (17) Compliance with Feed Rate Limits (Pollutant Feed Rate Limits). To comply with the applicable feed rate limits of this section, Permittee must monitor and record feed rates as follows:
 - (a) Determine and record the value of the parameter for each feedstream by sampling and analysis or other method;
 - (b) Determine and record the mass or volume flow rate of each feedstream by a CMS. If Permittee determines flow rate of a feed stream by volume, Permittee must determine and record the density of the feedstream by sampling and analysis (unless Permittee reports the constituent concentration in units of weight per unit volume (e.g., mg/l)); and
 - (c) Calculate and record the mass feed rate of the parameter per unit time.
 - (18) Waiver of Monitoring of Constituents in Certain Feed streams. Permittee is not required to monitor levels of metals or chlorine in the following feed streams to document compliance with the feed rate limits under this section provided that Permittee documents in the comprehensive performance test plan the expected levels of the constituent in the feedstream and account for those assumed feed rate levels in documenting compliance with feed rate limits: natural gas, process air, and feed streams from vapor recovery systems.
 - (19) Multiple Standards. When an operating parameter is applicable to multiple standards, 40 CFR Part 1209(j) through (p) will require Permittee to establish limits on operating parameters based on comprehensive performance testing to ensure it maintains compliance with the emission standards of this Subpart. For several parameters, Permittee must establish a limit for the parameter to ensure compliance with more than one emission standard. An example is a limit on minimum combustion chamber temperature to ensure compliance with both the DRE standard of paragraph (j) of 40 CFR Part 1209 and the dioxin/furan standard of paragraph (k) of 40 CFR Part 1209. If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies.
 - (20) Dioxins and Furans. Permittee must comply with the dioxin and furans emission standard by establishing and comply with the operating parameter limits listed in 40 CFR Part 63.1209(k). Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications. If Permittee feeds a dioxin/furan inhibitor into the combustion system, Permittee must establish limits for the parameters listed in 40 CFR Part 63.1209(k)(9).
 - (21) Mercury. Permittee must comply with the mercury emission standard by establishing and complying with the operating parameter limits listed in 40 CFR Part 63.1209(l). Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.
 - (22) Particulate Matter. Permittee must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits pursuant to 40 CFR Part 63.1209(m). Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.
 - (23) Semivolatile Metals and Low Volatility Metals. Permittee must comply with the semivolatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with the operating parameters limits listed in 40 CFR Part 63.1209(n). Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.
 - (24) Hydrochloric Acid and Chlorine Gas. Permittee must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with the operating parameter limits listed in 40 CFR Part 63.1209(o). Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.
 - (25) Operating Under Different Modes of Operation. If Permittee operates under different modes of operation, Permittee must establish operating parameter limits for each mode. Permittee must document in the operating record when it changes a mode of operation and must begin complying with the operating parameter limits for an alternative mode of operation. Permittee must begin calculating rolling averages anew (i.e., without considering previous recordings) when complying with the operating parameter limits commences for the alternative mode of operation.
- d. **S2.043** may only combust #2 distillate fuel.
- e. The maximum **#2 distillate** fuel consumption rate for **S2.043** will not exceed **21.40 gallons** per hour.
- f. The maximum individual operating heat input for **S2.043** will not exceed **3.0 MMBtu** per hour.
- g. Hours
S2.043 may operate 24 hours per day, but will not operate in excess of 6,240 hours per calendar year.



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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

a. Performance/Compliance Testing

Within 180 days of initial start-up and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the PODS exhaust stack:

- (1) Conduct and record a Method 5 performance test for PM, a Method 201 or 201A performance test for PM₁₀, a Method 6C, 7E, 10, 25A and 12 for SO₂, NO_x, CO, VOC's and Pb (or equivalent EPA reference methods as approved by the Director) on the exhaust stack of **S2.043** consisting of three valid runs. The Method 5, 6C, 7E, 10, 25A and 12 emissions tests must be conducted in accordance with 40 CFR Part 60, Appendix A. The Method 201 or 201A emissions test must be conducted in accordance with 40 CFR Part 61, Appendix M.
- (2) Conduct and record a Method 9 visible emissions reading on the exhaust stack of **S2.043** concurrently with each of the initial performance tests. Visible emissions readings will use the procedures contained in 40 CFR Part 60 Appendix A, Method 9. The visible emissions readings must be conducted by a certified visible emissions reader.

b. Permittee, upon the issuance date of this permit, will:

- (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 distillate fuel combusted in **S2.043**.
- (2) Monitor and record the #2 distillate fuel combusted, as measured by the fuel flow meter, on a daily basis.
- (3) Monitor and records the hours of operation of **S2.043** on a daily basis.
- (4) Monitor and record each batch or charge weight rate of material processed on a daily basis.
- (5) The required monitoring and recordkeeping established in (1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation.
 - (f) Each batch or charge weight rate as fed to **S2.043** for each batch or charge processed for the corresponding date.
 - (g) The daily secondary combustion chamber minimum temperature value observation and corresponding minimum temperature value established in 3.b(3) for demonstrating compliance.
 - (h) Observations made and any corrective actions taken on **S2.043** for operation and maintenance with the manufacturer's guidelines.

c. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (n)).

- (1) Within 180 days of startup of **S2.043**, and once every fifth year thereafter, Permittee will perform a Comprehensive Performance Test to demonstrate compliance with the emission standards provided in 40 CFR Part 63.1203, Part 63.1204, and Part 63.1205, establish limits for the operating parameters provided in 40 CFR Part 63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems.
- (2) Within 2½ years after each Comprehensive Performance Test, Permittee will perform a Confirmatory Performance Test. The Confirmatory Performance Test must be conducted to:
 - (a) Demonstrate compliance with the dioxin/furan emission standard when **S2.043** is operated under normal operating conditions; and
 - (b) Conduct a performance evaluation of the continuous monitoring systems required for compliance assurance with the dioxin/furan emission standard pursuant to 40 CFR Part 63.1209(k).
- (3) Comprehensive and Confirmatory Performance Test Plans must be submitted one year before the anticipated test dates.
- (4) Data in Lieu of the Initial Comprehensive Performance Test. Pursuant to 40 CFR Part 63.1207(c), Permittee may request the Administrator to allow previous emissions test data to serve as documentation of conformance with the emission standards.
- (5) Frequency of Testing. Permittee must conduct testing periodically as prescribed in 40 CFR Part 63.1207 (d)(1) through (3). The date of commencement of the initial comprehensive performance test is the basis for establishing the deadline to commence the initial confirmatory performance test and the next comprehensive performance test. Permittee may conduct performance testing at any time prior to the required date. The deadline for commencing subsequent confirmatory and comprehensive performance testing is based on the date of commencement of the previous comprehensive performance test. Unless the Administrator grants a time extension pursuant to 40 CFR Part 63.1207(l), Permittee must conduct testing as follows:
 - (a) Comprehensive Performance Testing. Permittee must commence testing no later than 61 months after the date of commencing the previous comprehensive performance test. If data is submitted in lieu of the initial performance test, the subsequent comprehensive performance test must be performed within 61 months of the date six months after the compliance date.
 - (b) Confirmatory Performance Testing. Permittee must commence confirmatory performance testing no later than 31 months after the date of commencing the previous comprehensive performance test. If data is submitted in lieu of the initial performance test, initial confirmatory performance test must be performed within 31 months of the date six months after the compliance date. To ensure that the confirmatory test is conducted approximately midway between comprehensive performance tests, the Administrator will not approve a test plan that schedules testing within 18 months of commencing the previous comprehensive performance test.
 - (c) Permittee must complete performance testing within 60 days after the date of commencement, unless the Administrator determines that a time extension is warranted based on Permittee's documentation in writing of factors beyond Permittee's control that prevent Permittee from meeting the 60-day deadline.



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Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
 - c. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (n)) (continued)
 - (6) Notification of Performance Test and CMS Performance Evaluation, and approval of test plan and CMS Performance Evaluation Plan. The provisions of 40 CFR Part 63.7(b) and (c) and 40 CFR Part 63.8(e) apply, except:
 - (a) Comprehensive Performance Test. Permittee must submit the Administrator and NDEP_BAPC a notification of its intention to conduct a comprehensive performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation plan at least one year before the performance test and performance evaluation are scheduled to begin. The Administrator and NDEP-BAPC will notify Permittee of their approval or intent to deny approval of the test plan and CMS performance evaluation plan within 9 months after receipt of the original plan. Permittee must submit to the Administrator and NDEP-BAPC a notification of its intention to conduct the comprehensive performance test at least 60 calendar days before the test is scheduled to begin.
 - (b) Confirmatory Performance Test. Permittee must submit to the Administrator and NDEP-BAPC a notification of its intention to conduct a confirmatory performance test and CMS performance evaluation and a test plan and CMS performance evaluation plan at least 60 calendar days before the performance test is scheduled to begin. The Administrator and NDEP-BAPC will notify Permittee of their approval or intent to deny approval of the test and CMS performance evaluation plans within 30 calendar days after receipt of the original plans.
 - (c) After the Administrator and NDEP-BAPC have approved the test and CMS performance evaluation plans, Permittee must make the plans available to the public for review. Permittee must issue a public notice announcing the approval of the plans and the location where the plans are available for review.
 - (7) Content of Performance Test Plan. The provisions of 40 CFR Parts 63.7(c)(2)(i) through (iii) and (v) and 40 CFR Part 63.1207(f) regarding the content of the test plan apply.
 - (8) Operating Conditions During Testing. Permittee must comply with the provisions of 40 CFR Part 63.7(e) and 40 CFR Part 63.1207(g)(1), Comprehensive Performance Testing, and 40 CFR Part 63.1207(g)(2), Confirmatory Performance Testing. Conducting performance testing under operation conditions representative of the extreme range of normal conditions will be consistent with the requirements pursuant to 40 CFR Part 63.7(e)(1) to conduct performance testing under representative operating conditions.
 - (9) Operating Conditions During Subsequent Testing. Pursuant to 40 CFR Part 63.1207(h), current operating parameter limits established under 40 CFR Part 63.1209 are waived during subsequent comprehensive performance testing under an approved test plan. Current operating parameter limits are also waived during pretesting prescribed in the approved test plan prior to comprehensive performance testing for an aggregate time not to exceed 720 hours of operation. Pretesting is defined as operations when stack emissions testing for dioxin/furan, mercury, semivolatiles, low volatile metals, particulate matter, or hydrochloric acid/chlorine gas is being performed and operations to reach steady-state operating conditions prior to stack emissions testing under 40 CFR Part 63.1207(g)(1)(iii).
 - (10) Time Extension for Subsequent Performance Tests. Pursuant to 40 CFR Part 63.1207(i), after the initial comprehensive performance test, Permittee may request up to a one-year time extension for conducting a comprehensive or confirmatory performance test to consolidate performance testing with other state or federally required emission testing, or for other reasons deemed acceptable by the Administrator. If the Administrator grants a time extension for a comprehensive performance test, the deadlines for commencing the next comprehensive and confirmatory tests are based on the date that the subject comprehensive performance test commences. Permittee must submit in writing to the Administrator any request under 40 CFR Part 63.1207(i) for a time extension for conducting a performance test.
 - (11) Notification of Compliance and Failure to Submit a Timely Notification of Compliance. The provisions of 40 CFR Part 63.1207(j) and (k) apply.
 - (12) Failure of Comprehensive Performance Test (Adapted from 40 CFR Part 63.1207(l)(1))
 - (a) If Permittee determines (based on CEM recordings, results of analyses of stack samples, or results of CMS performance evaluations) that it has exceeded any emission standard during a comprehensive performance test for a mode of operation, Permittee must cease hazardous waste burning immediately under that mode of operation. Permittee must make this determination within 90 days following completion of the performance test.
 - (b) If Permittee fails to demonstrate compliance with the emission standards for any mode of operation, then prior to submitting a revised Notification of Compliance as provided under 40 CFR Part 1207 (l)(ii)(C), Permittee may burn hazardous waste only for the purpose of pretesting or comprehensive performance testing under revised operating conditions, and only for a maximum of 720 hours (renewable at the discretion of the Administrator), except as provided under 40 CFR Part 63.1207(l)(3). Permittee must conduct a comprehensive performance test under revised operating conditions following the requirements for performance testing of this section and submit to the Administrator a Notification of Compliance subsequent to the new comprehensive performance test.



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Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)
- c. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (n)) (continued)
- (13) Failure of Confirmatory Test (Adapted from 40 CFR Part 63.1207(l)(2))
- (a) If Permittee determines (based on CEM recordings, results of analyses of stack samples, or results of CMS performance evaluations) that the facility has failed the dioxin-furan emission standard during a confirmatory performance test, Permittee must cease burning hazardous waste immediately. Permittee must make this determination within 90 days following completion of the performance test. To burn hazardous waste in the future, Permittee must submit to the Administrator for review and approval a test plan to conduct a comprehensive performance test to identify revised limits on the applicable dioxin/furan operating parameters specified in 40 CFR Part 63.1209(k).
- (b) Permittee must submit to the Administrator a Notification of Compliance with the dioxin/furan emission standard under the provisions of 40 CFR Part 63.1207(j) through (l). Permittee must include in the Notification of Compliance the revised limits on the application dioxin/furan operating parameters specified in 40 CFR Part 63.1209(k); and until the Notification of Compliance is submitted, Permittee must not burn hazardous waste except for purposes of pretesting or confirmatory performance testing, and for a maximum of 720 hours (renewable at the discretion of the Administrator), except as provided under 40 CFR Part 63.1207(l)(3).
- (c) Permittee may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. Permittee must specify operating requirements, including limits on operating parameters, that it determines will ensure compliance with the emission standards of this Subpart based on available information including data from the failed performance test. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. An approval of interim operating requirements will include a schedule for submitting a Notification of Compliance.
- (14) Waiver of Performance Test. The provisions of 40 CFR Part 63.7(h) and 40 CFR Part 63.1207(m) apply. Permittee is not required to conduct performance tests to document compliance with the mercury, semivolatile metal, low volatile metal or hydrochloric acid/chlorine gas emission standards under the conditions specified pursuant to 40 CFR Part 63.1207(m)(2). Permittee is deemed to be in compliance with an emission standard if the twelve-hour rolling average maximum theoretical emission concentration (MSEC) determined as specified above does not exceed the emission standard.
- (15) Feed Rate Limits for Nondetectable Constituents. (The provisions of 40 CFR Part 63.1207(n) apply.)
- (a) Permittee must establish separate semivolatile metal, low volatile metal, mercury, and total chlorine (organic and inorganic), and/or ash feed rate limits for each feedstream for which the comprehensive performance test feedstream analysis determines that the constituents are not present at detectable levels.
- (b) Permittee must define the feed rate limits established under 40 CFR Part 63.1207(n)(1) as **non detect** at the full detection limit achieved during the performance test.
- (c) Permittee will not be deemed to be in violation of the feed rate limit established pursuant to 40 CFR Part 63.1207(n)(2) when detectable levels of the constituent are measured, whether at levels above or below the full detection limit achieved during the performance test, provided that the total feed rate for that constituent, including the detectable levels in the feedstream which is limited to non detect levels, is below the feed rate limit for that constituent; or except for ash, the maximum theoretical emission concentration (MSEC) for the constituent (i.e., semivolatile metal, low volatile metal, mercury, and/or hydrochloric acid/chlorine gas) calculated according to 40 CFR Part 63.1207(m) and considering the contribution from all feed streams including the detectable levels in the feedstream which is limited to non detect levels, is below the emission standard in 40 CFR Parts 63.1203, 63.1204, and 63.1205.
- d. Required Stack Gas Sampling Methods for Demonstration of Compliance with the Emission Limits and Opacity Standard (Adapted from 40 CFR Part 63.1208(a) and (b))
- Permittee will perform the following test methods while **S2.043** is operating under normal conditions:
- (1) Dioxins and Furans: Conduct and record a Method 0023A performance test on the exhaust stack for Polychlorinated Dibenzo-p-Dioxins (PCDD) and Polychlorinated Dibenzofuran (PCDF) consisting of three valid runs, for a minimum of three hours for each run. Total flue gas sample collected must be equal to or greater than 2.50 dry standard cubic meters (DSCM). No detects will be assumed to have "zero" concentration. The Method 0023A emissions test must be conducted in accordance with EPA Document SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.
- (2) Mercury: Conduct and record a Method 29 performance test on the exhaust stack for mercury consisting of three valid runs. The Method 29 performance test must be conducted in accordance with 40 CFR Part 60, Appendix A.
- (3) Cadmium and Lead: Conduct and record a Method 29 performance test on the exhaust stack for cadmium and lead (combined) consisting of three valid runs. The Method 29 performance test must be conducted in accordance with 40 CFR Part 60, Appendix A.
- (4) Arsenic, Beryllium and Chromium: Conduct and record a Method 29 performance test on the exhaust stack for arsenic, beryllium and chromium (combined) consisting of three valid runs. The Method 29 performance test must be conducted in accordance with 40 CFR Part 60, Appendix A.
- (5) Hydrochloric Acid and Chlorine Gas: Conduct and record a Method 26A (or the Solid Waste Equivalent, Method 0050), Method 320 or Method 321 performance test on the exhaust stack for hydrochloric acid and chlorine gas (combined) consisting of three valid runs. The Method 26A, Method 320 and Method 321 emissions tests must be conducted in accordance with 40 CFR Part 60, Appendix A. The Method 0050 performance tests must be conducted in accordance with EPA Document SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.



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Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
 - d. Required Stack Gas Sampling Methods for Demonstration of Compliance with the Emission Limits and Opacity Standard (continued)
 - (6) Particulate Matter: Conduct and record a Method 5 (or Method 5I) performance test on the exhaust stack for particulate matter consisting of three valid runs. For low-level sampling trains with expected total-train catches less than 50 milligrams, the Method 5I performance test must be utilized. The Method 5 and Method 5I performance test must be conducted in accordance with 40 CFR Part 60, Appendix A.
 - (7) Other Test Methods: Other applicable test methods in EPA Document SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, may be used to demonstrate compliance with the requirements of 40 CFR Part 63, Subpart EEE, unless otherwise specified in this section.
 - (8) Feedstream Analytical Methods. Any reliable analytical methods to determine feedstream concentration of metal, chlorine or other constituents may be utilized. The sampling and analytical methods/procedures must be unbiased, precise and results representative of the feedstream. For each feedstream, demonstrate that each compound is not presented above the reported level at the 80% confidence level around the mean and the analysis could have detected the present of the constituent at or below the reported level at the 80% upper confidence limit around the mean.
 - (9) Opacity: Conduct and record a Method 9 visible emissions reading on the exhaust stack concurrently with each of the initial performance tests. Visible emissions reading will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The readings must be conducted by a certified visible emissions reader for a period of 6 minutes.

e. Permittee will be subject to the following monitoring requirements (Adapted from 40 CFR Part 63.1209):

Reference	Requirement
40 CFR Part 63.1209(a)	Continuous Emissions Monitoring Systems (CEMS)
40 CFR Part 63.1209(a)(1)	CEMS as a Requirement to Demonstrate Compliance
40 CFR Part 63.1209(a)(2)	Performance Specifications
40 CFR Part 63.1209(a)(3)	Carbon Monoxide Readings Exceeding the Span
40 CFR Part 63.1209(a)(4)	Hydrocarbon Readings Exceeding the Span
40 CFR Part 63.1209(a)(5)	Petitions to Use CEMS for Other Standards - particulate matter, mercury, semivolatile metals, low volatile metals, and hydrochloric acid/chlorine gas
40 CFR Part 63.1209(a)(6)	Calculation of Rolling Average
40 CFR Part 63.1209(a)(7)	Operating Parameter Limits for Hydrocarbons
40 CFR Part 63.1209(b)	Other Continuous Monitoring Systems
40 CFR Part 63.1209(b)(1)	Use of Continuous Monitoring Systems to Document Compliance
40 CFR Part 63.1209(b)(2)	Installation, Operation and Calibration of CMS
40 CFR Part 63.1209(b)(3)	Parameter Sampling Frequency
40 CFR Part 63.1209(b)(4)	Span of Non-CEMS CMS Detector Exceedence
40 CFR Part 63.1209(b)(5)	Calculation of Rolling Averages
40 CFR Part 63.1209(c)(1)	Analysis of Feed streams
40 CFR Part 63.1209(c)(2)	Development and Implementation of Feedstream Analysis Plan
40 CFR Part 63.1209(c)(3)	Review and Approval of Feedstream Analysis Plant by the Administrator
40 CFR Part 63.1209(c)(4)	Compliance with Feed rate Limits
40 CFR Part 63.1209(c)(5)	Waiver of Monitoring of Constituents in Certain Feed streams
40 CFR Part 63.1209(d)(1)	Performance Evaluations/Quality Control Program Requirements Pursuant to 40 CFR Part 63.8(d) and (e)
40 CFR Part 63.1209(d)(2)	Compliance with CEMS Quality Assurance Procedures
40 CFR Part 63.1209(e)	Conduct of Monitoring/Application of 40 CFR Part 63.8(b) Provisions
40 CFR Part 63.1209(f)(1)	Operation and Maintenance of CMS/Exceptions to 40 CFR Part 63.8(b) Provisions
40 CFR Part 63.1209(f)(2)	Performance Specifications for Carbon Monoxide, Hydrocarbon, and Oxygen CEMS
40 CFR Part 63.1209(g)(1)	Alternative Operating Requirements Other Than Continuous Emissions Monitoring Systems (CEMS) – Requests to Use Alternative Methods
40 CFR Part 63.1209(g)(2)	Administrator's Discretion to Specify Additional or Alternative Requirements
40 CFR Part 63.1209(h)	Reduction of Monitoring Data/Application of 40 CFR Part 63.8(g)
40 CFR Part 63.1209(i)	Operating Parameters Subject to Multiple Standards
40 CFR Part 63.1209(j)	Compliance With Destruction and Removal Efficiency (DRE) Standard
40 CFR Part 63.1209(j)(1)	Minimum Combustion Chamber Temperature
40 CFR Part 63.1209(j)(2)	Maximum Gas Flow rate or Production Rate
40 CFR Part 63.1209(j)(3)	Maximum Hazardous Waste Feed rate
40 CFR Part 63.1209(j)(4)	Operation of Waste Firing System



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Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program (continued)

e. Permittee will be subject to the following monitoring requirements (Adapted from 40 CFR Part 63.1209):

Reference	Requirement
40 CFR Part 63.1209(k)	Compliance With Dioxin/Furan Emissions Standard
40 CFR Part 63.1209(k)(1)	Maximum Inlet Gas Temperature (Dry Particulate Control Device)
40 CFR Part 63.1209(k)(2)	Minimum Combustion Chamber Temperature
40 CFR Part 63.1209(k)(3)	Maximum Gas Flow rate or Production Rate
40 CFR Part 63.1209(k)(4)	Maximum Waste Feed rate
40 CFR Part 63.1209(k)(5)	Particulate Matter Operating Limit
40 CFR Part 63.1209(k)(8)	Catalytic Oxidizer Parameter Limits
40 CFR Part 63.1209(k)(9)	Dioxin/Furan Inhibitor Feed rate Limits (If Applicable)
40 CFR Part 63.1209(l)	Compliance With Mercury Emission Standard
40 CFR Part 63.1209(l)(1)	Feed rate of Total Mercury
40 CFR Part 63.1209(l)(2)	Mercury Wet Scrubber Operating Parameters
40 CFR Part 63.1209(l)(3)	Activated Carbon Injection
40 CFR Part 63.1209(l)(4)	Activated Carbon Bed
40 CFR Part 63.1209(m)	Compliance with Particulate Matter Emission Standard
40 CFR Part 63.1209(m)(1)	Control Device Operating Parameter Limits
40 CFR Part 63.1209(m)(2)	Maximum Flow Gas Flow rate or Production Rate
40 CFR Part 63.1209(m)(3)	Maximum Ash Feed rate
40 CFR Part 63.1209(n)	Compliance With Semivolatile Metals and Low Volatile Metals Emission Standards
40 CFR Part 63.1209(n)(1)	Maximum Inlet Gas Temperature (Dry Particulate Control Device)
40 CFR Part 63.1209(n)(2)	Maximum Feed rate of Semivolatile Metals and Low Volatile Metals
40 CFR Part 63.1209(n)(3)	Control Device Operating Parameter Limits
40 CFR Part 63.1209(n)(4)	Maximum Total Chlorine and Chloride Feed rate
40 CFR Part 63.1209(n)(5)	Maximum Flue Gas Flow rate or Production Rate
40 CFR Part 63.1209(o)	Compliance With Hydrochloric Acid and Chlorine Gas Emission Limits
40 CFR Part 63.1209(o)(1)	Feed rate of Total Chlorine and Chloride
40 CFR Part 63.1209(o)(2)	Maximum Flue Gas Flow rate or Production Rate
40 CFR Part 63.1209(o)(3)	Wet Scrubber (If Applicable)
40 CFR Part 63.1209(o)(4)	Dry Scrubber (If Applicable)
40 CFR Part 63.1209(p)	Maximum Combustion Chamber Temperature
40 CFR Part 63.1209(q)	Operation Under Different Modes of Operation



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Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
f. Specific Reporting and Recordkeeping Requirements (Adapted from 40 CFR Part 63.1209)

Permittee will be required to submit the following reports to the Administrator:

Reference	Document, Data, or Information	Frequency
63.1211(d)	Documentation of compliance	Within 60 days following completion of the Comprehensive Performance Test
63.1206(c)(3)(vii)	Documentation and results of the automatic waste feed cutoff operability testing will be prepared monthly	Monthly
63.1209(c)(2)	Feedstream analysis plan	Before operating
63.1206(b)(1)(ii)(B)	If Permittee elects to comply with all applicable requirements and standards promulgated under authority of the Clean Air Act, including Sections 112 and 129, in lieu of the requirements of Subpart EEE when not burning hazardous waste, Permittee must document in the operating record that Permittee is in compliance with those requirements	When they occur
63.1206(c)(2)	Startup, shutdown, and malfunction plan	Before operating
63.1206(c)(3)(v)	Corrective measures for any automatic waste feed cutoff that results in an exceedance of an emission standard or operating parameter limit	When occurring
63.1206(c)(4)(ii)	Emergency safety vent operating plan	Before operating
63.1206(c)(4)(iii)	Corrective measures for any emergency safety vent opening	When occurring
63.1206(c)(6)	Operator training and certification program	Before operating
63.1206(c)(7)	Operation or maintenance plan	Before operating
63.1209(k)(6)(iii), 63.1209(k)(7)(ii), 63.1209(k)(9)(ii), 63.1209(o)(4)(iii)	Documentation that a substitute activated carbon, dioxin/furan formation reaction inhibitor, or dry scrubber sorbent, will provide the same level of control as the original material	When utilized
63.1206(c)(3)(vi)	Excessive exceedances reports	5 days after 10 th exceedance
63.1206(c)(4)(iv)	Emergency safety vent opening reports	5 days after occurrence



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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
g. Specific Reporting and Recordkeeping Requirements (Adapted from 40 CFR Part 63.1209)

Permittee will be required to submit the following reports to NDEP-BAPC:

Reference	Document, Data, or Information	Frequency
63.10(d)(5)(i)	Periodic startup, shutdown, and malfunction	Refer to Section III.B and C
63.10(d)(5)(ii)	Immediate startup, shutdown, and malfunction reports	Refer to Section III.B and C
63.10(e)(3)	Excessive emissions and continuous monitoring system performance report and summary report	Semiannually
63.1207(e), 63.9(e), 63.9(g)(1) and (3)	Notification of performance test and continuous monitoring system evaluation, including the performance test plan and CMS performance evaluation plan	1 year before test
63.1210(d), 63.1207(j), 63.9(h), 63.10(d)(2), 63.10(e)(2)	Notification of compliance, including results of performance tests and continuous monitoring system performance evaluations.	90 days from test completion
63.1206(b)(6)	Notification of changes in design, operation, or maintenance	60 days prior to change
63.9(j)	Notification and documentation of any change in information already provided under 40 CFR Part 63.9	15 days after change
63.1211(d)	Documentation of compliance	Within 60 days following completion of Comprehensive Performance Test
63.1209(c)(2)	Feedstream analysis plan	Before operating
63.1206(c)(2)	Startup, shutdown, and malfunction plan	Before operating
63.1206(c)(3)(v)	Corrective measures for any automatic waste feed cutoff that results in an exceedance of an emission standard or operating parameter limit	When occurring
63.1206(c)(7)	Operation or maintenance plan	Before operating
63.1206(c)(3)(vi)	Excessive exceedances reports	5 days after 10 th exceedance
63.1206(c)(4)(iv)	Emergency safety vent opening reports	5 days after occurrence

5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
None requested.



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Section VI. Specific Operating Conditions (continued)

AA. Emission Unit **S2.044** Location North 4273.29 km, East 356.07 km, UTM (Zone 11)

System 27 – Hot Gas Decontamination System

S 2.044 Hot gas decontamination system, manufactured by Epcon Industrial Systems, Inc., Model # E-04-T-50-75;
Serial # 536-945, Building 117-16

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.044** shall be controlled using an afterburner/thermal oxidizer (TO-001) with a maximum volume flow rate of 15,153 actual cubic feet per minute (acfm). The volumetric flow rate may be determined by utilizing 40 CFR Part 60, Appendix A, Method 2, *Determination of Stack Gas Velocity and Volumetric Flow Rate*.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **S2.044**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.044**, the following pollutants in excess of the following specified limits:
 - a. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.380 pound** per hour, nor more than **1.140 ton** per year, based on a 12-month rolling period.
 - b. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **PM** to the atmosphere will not exceed **0.380 pound** per hour, nor more than **1.140 ton** per year, based on a 12-month rolling period.
 - c. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **sulfur** to the atmosphere will not exceed **0.56 pound** per hour, nor more than **14.6 tons** per year, based on a 12-month rolling period.
 - d. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **1.12 pounds** per hour, nor more than **3.35 tons** per year, based on a 12-month rolling period.
 - e. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **4.85 pounds** per hour, nor more than **14.6 tons** per year, based on a 12-month rolling period.
 - f. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **CO** to the atmosphere will not exceed **0.400 pound** per hour, nor more than **1.20 ton** per year, based on a 12-month rolling period.
 - g. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **1.60 x 10⁻⁰⁶ pound** per hour, nor more than **4.80 x 10⁻⁰⁶ ton** per year, based on a 12-month rolling period.
 - h. NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **lead compounds** to the atmosphere will not exceed **0.000228 pound** per hour, nor more than **0.000683 ton** per year, based on a 12-month rolling period.
 - i. NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445.721.
 - j. NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.044** may combust #2 diesel fuel as the primary fuel only.
 - b. The maximum #2 diesel fuel consumption rate for **S2.044** will not exceed **80.00 gallons** per any one-hour period.
 - c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent**.
 - d. The maximum individual operating heat input for **S2.044** will not exceed **11.2 MMBtu** per any one-hour period.
 - e. Maximum allowable batch or charge weight rate will not exceed **0.0065 ton** of energetic residue per any one-hour period.
 - f. Hours
 - (1) **S2.044** will not operate in excess of 6,000 hours per calendar year.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Within 180 days of initial start-up and at least 90 days prior to the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, Permittee will conduct and record the following performance/compliance tests on the **System 27** exhaust stack:
 - (1) Conduct and record a Method 5 performance test for PM, a Method 201 or 201A performance test for PM₁₀, a Method 6C, 7E, 10, 25A and 12 for SO₂, NO_x, CO, VOCs and Pb (or equivalent EPA reference methods as approved by the Director) on the exhaust stack of **S2.044** consisting of three valid runs. The Method 5, 6C, 7E, 10, 25A and 12 performance tests must be conducted in accordance with 40 CFR Part 60, Appendix A. The Method 201 or 201A performance tests must be conducted in accordance with 40 CFR Part 51, Appendix M.
 - (2) During the required performance tests, Permittee will establish a minimum temperature value for TO-001 that corresponds with the emission limitations established in 2.a through 2.j of this section based on a valid performance test. The minimum temperature will be re-established once every fifth year, in conjunction with the required performance tests.
 - (3) Conduct and record a Method 9 visible emissions test on the exhaust stack of **S2.044** concurrently with each of the initial performance tests. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions readings must be conducted by a certified visible emissions reader.



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AA. Emission Unit S2.044 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
 - b. Permittee will, upon the issuance date of this permit:
 - (1) Install, operate, calibrate and maintain a fuel flow meter to continuously monitor the amount of #2 diesel fuel combusted in **S2.044**.
 - (2) Monitor and record the #2 diesel fuel combusted as measured by the fuel flow meter on a daily basis.
 - (3) Monitor and record the hours of operation of **S2.044** while burning #2 diesel fuel on a daily basis.
 - (4) Monitor and record each batch or charge weight rate of energetic residual material processed on a daily basis.
 - (5) Monitor and record continuously the temperature of the afterburner/thermal oxidizer (TO-001) while the unit is operating.
 - (6) Monitor and record that the maintenance and operation of **S2.044** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
 - (7) The requirement monitoring and recordkeeping established in (1) through (5) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning measurement value of the fuel flow meter for the corresponding date.
 - (c) The ending measurement value of the fuel flow meter for the corresponding date.
 - (d) The total daily fuel consumption value determined from (b) and (c) above.
 - (e) The total daily hours of operation.
 - (f) Weight of each batch or charge weight rate of energetic residual material fed to **S2.044** for the corresponding date.
 - (g) Observations made and any corrective actions taken on **S2.044** for operation and maintenance in accordance with the manufacturer's guidelines.
 - (8) Conduct and record a visible emissions reading on **S2.044** on a monthly basis for any month or a portion thereof that **S2.044** is operating. Visible emissions readings will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader and must be made while **S2.044** is operating. The Method 9 visible emission reading requirement can be waived for **S2.044** providing the following conditions are met:
 - (a) A survey of the emission unit must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. The survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader within 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the result of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
None requested.



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Section VI. Specific Operating Conditions (continued)

AB. Emission Units F1.001 through F1.020 Location North 4267.52 km, East 355.87 km, UTM (Zone 11)

System 28 – Old Bomb Facility	
F1.001	Open burn pan #1
F1.002	Open burn pan #2
F1.003	Open burn pan #3
F1.004	Open burn pan #4
F1.005	Open burn pan #5
F1.006	Open burn pan #6
F1.007	Open burn pan #7
F1.008	Open burn pan #8
F1.009	Open burn pan #9
F1.010	Open burn pan #10
F1.011	Open burn pan #11
F1.012	Open burn pan #12
F1.013	Open burn pan #13
F1.014	Open burn pan #14
F1.015	Open burn pan #15
F1.016	Open burn pan #16
F1.017	Open burn pan #17
F1.018	Open burn pan #18
F1.019	Open burn pan #19
F1.020	Open burn pan #20

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **F1.001 through F1.020** shall be controlled by utilizing best operating practices and limiting the Net Explosive Weight (NEW) burned in the open burn pans. Best operating practices will consist of, at a minimum, the following:
 - a. Open burning will occur only during times when the wind speed is between 3 and 20 miles per hour.
 - b. Open burning is not allowed when the **cloud cover** is greater than **80% percent** and the **cloud ceiling** is less than **2,000 feet** above ground level.
 - c. Open burning is not allowed when visibility is less than one mile.
 - d. Open burning is not allowed during precipitation events, electrical storms or thunder storms, or days when the chance of precipitation, electrical storms or thunderstorms exceeds 50 percent based on a current daily weather report from a Department of Defense weather station or National Weather Station office.

2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
On and after the date of startup of **F1.001 through F1.020**, Permittee will not discharge or cause the discharge into the atmosphere the following pollutants in excess of the following specified limits:
 - a. The discharge of Hazardous Air Pollutants (HAPs) to the atmosphere will not exceed the emission limitations specified in Section VII.D, "Open Burning Emissions Cap".

NOTE: Open burning is performed for elimination of hazards. According to NAC 445B.2202.1, emissions from **F1.001 through F1.020** do not have to comply with opacity requirements of NAC 445B.22017.

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. Munition/Propellant Items
 - (1) Munition/Propellant items to be burned in **F1.001 through F1.020** are limited to those items which cannot be processed through the Western Area Demilitarization Facility (WADF).
 - (2) Munition/Propellant to be burned in **F1.001 through F1.020** are limited to only those items which are approved under the provisions of the Hazardous Waste Permit NEV HW0013.
 - (3) Munition/Propellant to be burned in **F1.001 through F1.020** are limited to those that meet at least one of the following criteria:
 - (a) Those items in Stability Category D (the level of Remaining Effective Stabilizer (RES) is less than 0.20 percent of the item mass), or
 - (b) Propellant lots determined by the Department of the Army to have an unknown storage history and considered unsafe or unstable because of exposure to environmental conditions such as extreme heat and moisture, or
 - (c) Propellant lots determined by the Department of the Army to have an assigned lot number designation of "none", "unknown", "mixed", or with a locally-assigned Lot Number for which stability data cannot be obtained, or
 - (d) Propellant lots that have been dropped from the Propellant Stability Monitoring Program as a result of being designated for demilitarization by Operation Support Command's Propellant Manager, or
 - (e) All propellants removed from mortar rounds due to a history of autoignition incidents.



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Section VI. Specific Operating Conditions (continued)

AB. Emission Units F1.001 through F1.020 (continued)

3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program* (continued)
 - a. Munition/Propellant Items (continued)
 - (4) Items which will not be burned in **F1.001 through F1.020** include the following:
 - (a) Waste that is not approved pursuant to Hazardous Waste Permit NEV HW 0013.
 - (b) Non-propellant or non-energetic wastes, with the exception of incidental munitions contains and casings that cannot be separated any further prior to open burning due to safety hazards.
 - (c) Chemical, biological or radiological weapons.
 - (5) Maximum Allowable Net Explosive Weight (NEW) burned in open burn plans **F1.001 through F1.020** will not exceed:
 - (a) **1,000 pounds per open burn**, in each pan.
 - (b) **20,000 pounds per day**, combined.
 - (c) **3,900,000 pounds per calendar year**.
 - (6) The maximum allowable number of open burns in **F1.001 through F1.020**, combined, will not exceed **20 per day**.
 - b. Open burning will be limited to the hours between 9:00 am and 30 minutes before sunset.
4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
 - a. Upon the issuance date of this permit, Permittee will utilize the Munitions Items Disposition Action System (MIDAS) or military munitions manufacturer specifications, determine and record the following information for each munition/propellant item to be burned on a daily basis:
 - (1) Munitions Name and Nomenclature.
 - (2) National Stock Number (NSN).
 - (3) Department of Defense Identification Code (DODIC).
 - (4) Pyrotechnic, explosive and propellant formulations and weights.
 - (5) Casing components and weights (if present).
 - b. Upon the issuance date of this permit, Permittee will prepare and maintain on-site records indicating why munition/propellant must be open burned as opposed to other disposal/treatment/recycling methods. A report summarizing these records must be updated on or before March 15th of each calendar year.
 - c. Upon the issuance date of this permit, Permittee will monitor and record the following:
 - (1) Ambient Meteorological Conditions
 - (a) Horizontal wind speed, horizontal wind direction and ambient dry bulb temperature at the time and day of each open burn.
 - (b) Percent cloud cover and cloud ceiling in feet at the time and day of each open burn.
 - (c) Visibility distance at the time and day of each open burn.
 - (d) Current weather report at the time and day of each open burn.
 - (2) Operational Information
 - (a) Date and time of each open burn.
 - (b) Net Explosive Weight (NEW) of munition/propellant burned in **F1.001 through F1.020**, each on a per day basis.
 - (c) Combined NEW of munition/propellant burned in **F1.001 through F1.020**, combined, on a per day basis.
 - (d) Combined NEW of munition/propellant burned in **F1.001 through F1.020**, combined, on a monthly basis.
 - d. The required monitoring and recordkeeping established 4.c(1) and (2) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - (1) The calendar date of any required monitoring.
 - (2) The munition/propellant items burned and the total number of burns conducted for the corresponding date.
 - (3) The daily NEW of munition/propellant burned in pounds for **F1.001 through F1.020** each, for the corresponding date.
 - (4) The combined daily NEW of munition/propellant items burned in pounds for **F1.001 through F1.020** combined, for the corresponding date.
 - (5) The corresponding annual NEW of munition/propellant burned in F1.001 through F1.020 in pounds per calendar year. The NEW shall be determined from the NEW recorded in 4.d(4) of this Section and shall be maintained on a calendar month as the sum of the calendar year.
5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
None requested.



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Section VI. Specific Operating Conditions (continued)

AC. Emission Unit **S2.045** Location North 4270.375 km, East 360.104 km, UTM (Zone 11)

System 29 - Soil Vent Extraction (SVE) and Thermal Oxidizer System

S 2.045 Soil vent extraction and thermal oxidizer system, manufactured by EnviroSupply and Service Inc., model TC 2500, serial #03-1514, Building 336 Site

1. Air Pollution Control Equipment (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
Emissions from **S2.045** shall be controlled by an Afterburner/Thermal Oxidizer (TO-001) with a maximum volume flow rate of 1,470 standard cubic feet per minute (scfm). The volumetric flow rate may be determined by utilizing 40 CFR Part 60, Appendix A, Method 2, *Determination of Stack Gas Velocity and Volumetric Flow Rate*.
2. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. On and after the date of startup of **S2.045**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of TO-001, the following pollutants in excess of the following specified limits:
 - (1) NAC 445B.2203 (Federally Enforceable Part 70 Program) - The discharge of **PM₁₀** to the atmosphere will not exceed **0.006 pound** per hour, nor more than **0.0255 ton** per year, based on a 12-month rolling period.
 - (2) NAC 445B.305 (Federally Enforceable SIP Requirement) - The discharge of **PM** to the atmosphere will not exceed **0.012 pound** per hour, nor more than **0.051 ton** per year, based on a 12-month rolling period.
 - (3) NAC 445B.305 (445.7075) (Federally Enforceable SIP Requirement) - The discharge of **sulfur** to the atmosphere will not exceed **0.0015 pound** per hour, nor more than **0.0063 ton** per year, based on a 12-month rolling period.
 - (4) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **SO₂** to the atmosphere will not exceed **0.003 pound** per hour, nor more than **0.0125 ton** per year, based on a 12-month rolling period.
 - (5) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **NO_x** to the atmosphere will not exceed **0.168 pound** per hour, nor more than **0.737 ton** per year, based on a 12-month rolling period.
 - (6) NAC 445B.305 (Federally Enforceable Part 70 Program) - he discharge of **CO** to the atmosphere will not exceed **0.03 pound** per hour, nor more than **0.1295 ton** per year, based on a 12-month rolling period.
 - (7) NAC 445B.305 (Federally Enforceable Part 70 Program) - The discharge of **VOC** to the atmosphere will not exceed **0.152 pound** per hour, nor more than **0.665 ton** per year, based on a 12-month rolling period.
 - (8) NAC 445.721 (Federally Enforceable SIP Requirement) - The opacity from the stack discharge of TO-001 will not equal or exceed 20% in accordance with NAC 445.721.
 - (9) NAC 445B.22017 (State Only Requirement) - The opacity from the stack discharge of TO-001 will not equal or exceed 20 percent in accordance with NAC 445B.22017.
3. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program
 - a. **S2.045** may combust propane as the only added fuel; however, the gasoline vapors extracted from the soil will add Btu value and be combusted in the oxidizer process.
 - b. **Propane** consumption for **S2.045** from Tank T049 of Table VII-B-1 will not exceed an average hourly rate of **580 cubic feet** per hour. The annual average propane usage will not exceed a rate of 290 cubic feet per hour.
 - c. The total combined propane consumption from Tanks T001 through T049 as identified in Table VII-B-1 shall not exceed 456,826 gallons per year, based on a 12-month rolling period.
 - d. The maximum individual operating heat input rate for **S2.045** will not exceed **2.0 MMBtu** per hour.
 - e. Maximum vapor treatment rate will not exceed 1,470 scfm.
 - f. The burner system will maintain a temperature in the combustion chamber of 1,450 to 1,800 degrees F.
 - g. **S2.045** may operate 8,760 hours per calendar year.



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AC. Emission Units S2.045 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

a. Monitoring and Recordkeeping

Permittee will monitor, and will report quarterly, the following parameters:

- (1) Monitor and record continuously the temperature of the thermal oxidizer/afterburner while the unit is operating.
- (2) Monthly intake flow readings from the extraction wells to document the flow rate of gasoline contaminated vapors that are being treated.
- (3) Monitor and record continuously the blower run time to document the operating hours of the system.
- (4) Calculate monthly the amount of total VOCs (as gasoline) that were treated, and calculate the VOC emissions based on the system's destruction efficiency.
- (5) Install, operate, calibrate and maintain a fuel flow meter to continuously record the amount of propane fuel used by the system (tank number - 36126; tank capacity - 1,184 gallons with a working capacity of 983 gallons) from Tank T049 of Table VII-B-1.
- (6) Monitor and record that the maintenance and operation of **S2.045** is in accordance with the manufacturer's operation and maintenance guidelines, on a monthly basis.
- (7) The required monitoring and recordkeeping established in (1) through (6) above will be maintained in a contemporaneous log containing, at a minimum, the following:
 - (a) The calendar date of any required monitoring.
 - (b) The beginning and ending recorded value of the fuel flow meter and its corresponding date.
 - (c) The continuous temperature logs for the thermal oxidizer/afterburner.
 - (d) The intake flow readings from the extraction wells.
 - (e) The beginning and ending recorded values of the blower run time meter and its corresponding dates.
- (8) Conduct and record a visible emissions reading on **S2.045** on a monthly basis for any month or a portion thereof that **S2.045** is operating. Visible emissions reading will use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader and must be made while **S2.045** is operating. The Method 9 visible emissions reading requirement can be waived for **S2.045** providing the following conditions are met:
 - (a) A survey of **S2.045** must be made in accordance with the procedures contained in 40 CFR Part 60, Appendix A, Method 22. They survey will be conducted for a minimum of 2 minutes.
 - (b) If the survey detects any visible emissions, excluding condensed water vapor, for more than 18 seconds of the survey time a Method 9 visible emission reading must be conducted by a certified visible emissions reader without 1 hour of the initial survey.
 - (c) The results of the survey including date and time, and any corrective action taken (including the results of any further Method 9 visible emission reading) will be recorded in a contemporaneous log.

5. Shielded Requirements (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

None requested.

*******End of Specific Operating Conditions*******



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Section VII. Emission Caps

A. Cap for Emission Units S2.001 through S2.005, S2.007, S2.011 and S2.014

1. Emission Limits (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

On and after the date of startup of **S2.001 through S2.005, S2.007, S2.011 and S2.014**, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

- a. The combined discharge of **PM** to the atmosphere will not exceed **6.00 tons** per year, based on a 12-month rolling period
- b. The combined discharge of **PM₁₀** to the atmosphere will not exceed **3.24 tons** per year, based on a 12-month rolling period.
- c. The combined discharge of **sulfur** to the atmosphere will not exceed **5.39 tons** per year, based on a 12-month rolling period.
- d. The combined discharge of **SO₂** to the atmosphere will not exceed **10.80 tons** per year, based on a 12-month rolling period.
- e. The combined discharge of **NO_x** to the atmosphere will not exceed **33.0 tons** per year, based on a 12-month rolling period.
- f. The combined discharge of **CO** to the atmosphere will not exceed **22.50 tons** per year, based on a 12-month rolling period.
- g. The combined discharge of **VOC** to the atmosphere will not exceed **2.04 tons** per year, based on a 12-month rolling period.
- h. The combined discharge of **Pb** to the atmosphere will not exceed **0.025 ton** per year, based on a 12-month rolling period.

2. Operating Parameters (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

- a. The maximum annual **#2 diesel** fuel consumption for **S2.001 through S2.005, S2.007, S2.011 and S2.014** combined, will not exceed **3,000,000 gallons** per year, based on a 12-month rolling period.

3. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

Permittee, upon the issuance date of this permit, and in conjunction with all monitoring and recordkeeping requirements as specified in Sections VI.A.4 through VI.I.4 of this permit, will:

- a. Record in a contemporaneous log the total #2 diesel fuel usage in gallons as measured by the individual fuel flow meters requirement in Sections VI.A.4.b through VI.I.4.b of this permit, on a monthly basis, for **S2.001 through S2.005, S2.007, S2.011 and S2.014** combined.
- b. Record in the contemporaneous log required in Section VII.A.3.a above, the cumulative total monthly #2 diesel fuel usage for the preceding period, on a 12-month rolling period.

B. Facility-wide Cap for Propane Combustion

1. Emission Limits (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

On and after the date of issuance of this permit, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits from all emission units which combust propane, combined, as supplied by storage tanks **T001 through T049** as identified in Table VII-B-1 below:

- a. The combined discharge of **PM** to the atmosphere will not exceed **0.14 ton** per 12-month rolling period.
- b. The combined discharge of **PM₁₀** to the atmosphere will not exceed **0.14 ton** per 12-month rolling period.
- c. The combined discharge of **sulfur** to the atmosphere will not exceed **0.03 ton** per 12-month rolling period.
- d. The combined discharge of **SO₂** to the atmosphere will not exceed **0.05 ton** per 12-month rolling period.
- e. The combined discharge of **NO_x** to the atmosphere will not exceed **4.57 tons** per 12-month rolling period.
- f. The combined discharge of **CO** to the atmosphere will not exceed **0.78 ton** per 12-month rolling period.
- g. The combined discharge of **VOC** to the atmosphere will not exceed **1.43 tons** per 12-month rolling period.

2. Operating Parameters (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

- a. The maximum annual propane usage from storage tanks **T001 through T049**, combined, will not exceed 456,826 gallons per calendar year.
- b. Permittee will submit notification and supporting information of identification to the NDEP-BAPC prior to any proposed removal, replacement or new construction of any propane fuel storage tank(s) utilized for combustion of propane in emission units located at the Main Base Facility. The notification and identification will consist of, at a minimum, the tank location, capacity in gallons, and serial and/or identification number consistent with the information provided in Table VII-B-1 of this permit.

3. Monitoring, Testing, and Reporting (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*

Permittee, upon the issuance date of this permit, will:

- a. Record in a contemporaneous log the total propane usage in gallons from storage tanks **T001 through T049** combined, as measured by the temperature compensated, pressure regulated fuel flow meters, on a 6-month basis.
- b. Record in a contemporaneous log required in Section VII.B.3.a above the cumulative 6-month propane usage on a 12-month rolling period basis.



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Section VII. Emission Caps (continued)

B. Facility-wide Cap for Propane Combustion (continued)

Table VII-B-1 Propane Storage Tanks T001 through T049

T001	Propane storage tank, 499 gallons, above ground, serial #LV7004-1263 (033TK), Building #112-77
T002	Propane storage tank, 499 gallons, above ground, serial #97728 (002TK), Building #112-77
T003	Propane storage tank, 500 gallons, above ground, serial #00537, Building #514
T004	Propane storage tank, 500 gallons, above ground, serial #00536, Building #515
T005	Propane storage tank, 499 gallons, above ground, serial #LV7004-1276 (031TK), Building #397
T006	Propane storage tank, 350 gallons, above ground, serial #133639 (0397A), Building #397
T007	Propane storage tank, 499 gallons, above ground, serial #24963 (019TK), Building #261
T008	Propane storage tank, 172 gallons, above ground, serial #57034 (011TK), Building #113
T009	Propane storage tank, 1,000 gallons, above ground, serial #48448 (017TK), Building #106-10
T010	Propane storage tank, 1,000 gallons, above ground, serial #28899 (010TK), Building #275
T011	Propane storage tank, 575 gallons, above ground, serial #361170 (MVTK5), Building #707
T012	Propane storage tank, 575 gallons, above ground, serial #361166 (MVTK6), Building #707
T013	Propane storage tank, 575 gallons, above ground serial #361165 (MVTK2), Building #705
T014	Propane storage tank, 575 gallons, above ground, serial #361169 (MVTK1), Building #705
T015	Propane storage tank, 1,154 gallons, above ground, serial #1183 (028TK), Building #345
T016	Propane storage tank, 250 gallons, above ground, serial #00526, Building #512
T017	Propane storage tank, 1,150 gallons, above ground, serial #12538 (004TK), Building #150
T018	Propane storage tank, 288 gallons, above ground, serial #177998 (047TK), Building #117-15
T019	Propane storage tank, 1,000 gallons, above ground, serial #150614 (00532), Building #117-1
T020	Propane storage tank, 1,150 gallons, above ground, serial #LV6049-232 (021TK), Building #110-27
T021	Propane storage tank, 499 gallons, above ground, serial #LV7004-1257 (034TK), Building #110-27
T022	Propane storage tank, 499 gallons, above ground, serial #LV7004-1269 (029TK), Building #110-27
T023	Propane storage tank, 150 gallons, above ground, serial #90437 (00529), Building #103-16
T024	Propane storage tank, 250 gallons, above ground, serial #00533, Building #103-6
T025	Propane storage tank, 172 gallons, above ground, serial #41780 (006TK), Building #101-42
T026	Propane storage tank, 288 gallons, above ground, serial #66088 (007TK), Building #101-25
T027	Propane storage tank, 499 gallons, above ground, serial #LV7004-1260 (043TK), Building #95
T028	Propane storage tank, 499 gallons, above ground, serial #30087 (042TK), Building #95
T029	Propane storage tank, 499 gallons, above ground, serial #00538, Building #95
T030	Propane storage tank, 288 gallons, above ground, serial #150534 (00534), Building #13
T031	Propane storage tank, 250 gallons, above ground, serial #5G00788, Building #49-9
T032	Propane storage tank, 575 gallons, above ground, serial #361168 (MVTK3), Building #706, Pad 2
T033	Propane storage tank, 575 gallons, above ground, serial #361167 (MVTK4), Building #706, Pad 2
T034	Propane storage tank, 500 gallons, above ground, serial #75784 (001TK), Cat Dam
T035	Propane storage tank, 150 gallons, above ground, serial #00528, Building #102-21
T036	Propane storage tank, 499 gallons, above ground, serial #00531, Building #70
T037	Propane storage tank, 1,150 gallons, above ground, serial #12539 (015TK), Building #102-21
T038	Propane storage tank, 1000 gallons, above ground, serial #83870 (020TK), Building #94
T039	Propane storage tank, 499 gallons, above ground, serial #77673 (0399A), Building #399 Old Bomb
T040	Propane storage tank, 499 gallons, above ground, serial #LV7004-1267 (040TK), Building #102-7
T041	Propane storage tank, 30,000 gallons, above ground, serial #X2755 (0A662-E), Building #662
T042	Propane storage tank, 499 gallons, above ground, serial #7CE005232, Clinic, Building #102-54
T043	Propane storage tank, 250 gallons, above ground, serial #16608, Building #49-9
T044	Propane storage tank, 500 gallons, above ground, serial #35939, Building #104-5
T045	Propane storage tank, 500 gallons, above ground, serial #75165, Building #104-5
T046	Propane storage tank, 499 gallons, above ground, serial #LV70041256 (036TK), Golf Course
T047	Propane storage tank, 499 gallons, above ground, serial #LV70041258 (037TK), Golf Course
T048	Propane storage tank, 172 gallons, above ground, serial #103040 (OH5TK), Dock 3
T049	Propane storage tank, 1,184 gallons, above ground, serial #36126, Building 336, SVE



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Section VII. Emission Caps (continued)

C. Facility-wide Cap for Gasoline Dispensing Activities

1. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

On and after the date of issuance of this permit, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits for gasoline dispensing from the three gasoline tanks combined (GT001 through GT003), as identified in Table VII-C-1 below:

a. The combined discharge of **VOC** to the atmosphere will not exceed **0.30 pound** per hour, nor more than **1.32 tons** per year, based on a 12-month rolling period.

2. Operating Parameters (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

a. The maximum annual **gasoline** dispensing from storage tanks **GT001 through GT003** combined will not exceed **225,000 gallons** per year, based on a 12-month rolling period.

b. Permittee will submit notification and supporting information of identification to the NDEP-BAPC prior to any proposed removal, replacement or new construction of any gasoline storage tank(s) utilized for dispensing of gasoline at the Main Base Facility. The notification and identification will consist of, at a minimum, the tank location, capacity in gallons, and serial and/or identification number consistent with the information provided in Table VII-C-1 of this permit.

3. Monitoring, Testing, and Reporting (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

Permittee, upon the issuance date of this permit, will:

a. Record in a contemporaneous log the total gasoline dispensed as measured by individual fuel flow meters, on a monthly basis, for GT001 through GT003 combined.

b. Record in the contemporaneous log required in Section VII.C.3.a above, the cumulative total monthly gasoline dispensed on a 12-month rolling period.

Table VII-C-1 Gasoline Dispensing from Storage Tanks

GT001	Gasoline storage tank, 10,000 gallons, underground, serial # unknown, Building #102-52
GT002	Gasoline storage tank, 10,000 gallons, underground, serial # unknown, Building #102-52
GT003	Gasoline storage tank, 1,000 gallons, above ground, serial #S054, Building #150

D. Open Burning Hazardous Air Pollutant Emission Cap

Emission Units **F1.001 through F1.020**

1. Emission Limits (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

On and after the date of issuance of this permit, Permittee will not discharge or cause the discharge into the atmosphere from **F1.001 through F1.020**, the following pollutants in excess of the following specified limits:

a. Emissions of **each Hazardous Air Pollutant** to the atmosphere will not exceed **9.07 tons** per calendar year.

b. The combined emissions of **all Hazardous Air Pollutants** to the atmosphere from open burning will not exceed **18.07 tons** per calendar year.

2. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) Federally Enforceable Part 70 Program

In addition to the monitoring and recordkeeping requirements contained in Section VI.EE.4 of this permit, Permittee will:

a. Monitor and record the following utilizing the Munition Items Disposition Action System (MIDAS) or military munitions/propellants items' manufacturer specifications. Permittee will determine and record the following information for each munition/propellants item to be burned:

(1) The individual total for each single hazardous air pollutant, for each day of open burning, on a daily basis.

(2) The combined total for all hazardous air pollutants, for each day of open burning, on a daily basis.

(3) The cumulative annual total for each single hazardous air pollutant, on a monthly basis.

(4) The cumulative annual total for the combined hazardous air pollutants, on a monthly basis.

b. The required monitoring and recordkeeping established in 2.a(1) through (4) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:

(1) The total of each individual hazardous air pollutant for each day of open burning.

(2) The total of all hazardous air pollutants for each day of open burning.

(3) The cumulative monthly total of each single hazardous air pollutant.

(4) The cumulative monthly total of combined hazardous air pollutants.

(5) The cumulative annual total of each single hazardous air pollutant.

(6) The cumulative annual total of combined hazardous air pollutants.

*******End of Emission Caps*******



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Section VIII. Surface Area Disturbance Conditions

Surface area disturbance in excess of 20 acres.

- A. State Implementation Plan (SIP) Article 7.3
Permittee may not cause or permit the construction, repair, or demolition work, or the use of unpaved or untreated areas without applying all such measures as may be required by the Director to prevent particulate matter from becoming airborne.
1. Permittee will control fugitive dust in accordance with the dust control plan entitled "Plan for Control of Fugitive Particulate Matter Emissions from Surface Area Disturbance Activities at Hawthorne Army Depot (HWAD) Main Base", as contained in Appendix F of the Class I-B Operating Permit Renewal Application dated August 4, 2003.
- B. NAC 445B.22037
Fugitive Dust
1. Permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in subsection 4, Permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in subsection 4, Permittee may not disturb or cover 5 acres or more of land or its topsoil until Permittee has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of subsections 2 and 3 do not apply to:
- a. Agricultural activities occurring on agricultural land; or
 - b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

*******End of Surface Area Disturbance Conditions *******



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Section IX. Schedules of Compliance

A. Chemical Accident Prevention Provisions

Permittee shall:

1. Submit a compliance schedule for meeting the requirements of 40 CFR Part 68.215 by the date provided in 40 CFR Part 68.10(a) or;
2. Submit as part of the compliance certification submitted under 40 CFR Part 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68.215, including the registration and submission of the risk management plan.

B Permittee is not in compliance with NAC 445B.230 - "Plan for reduction of emissions." In order to achieve compliance, Permittee shall submit a plan for reducing or eliminating emissions associated with the stationary source in accordance with the episode stages of alert, warning, and emergency as contained in the applicable State Implementation Plan for the State of Nevada. The plan must be submitted within 180 day of issuance of this permit.

*******End of Schedules of Compliance*******



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Section X. Amendments

Month DD, 2004 – Modified System 27, Hot Gas Decontamination System. Increased fuel consumption rate from 52 gallons per hour to 80 gallons per hour.

This permit:

1. Is non-transferable. (NAC 445B.287) Part 70 Program
2. Will be posted conspicuously at or near the stationary source. (NAC 445B.318)(State Only Requirement)
3. Will expire and be subject to renewal five (5) years after the issuance date of July 16, 2004. (NAC 445B.315) Part 70 Program
4. A completed application for renewal of an operating permit must be submitted to the director on the form provided by him with the appropriate fee at least 180 calendar days before the expiration date of this operating permit. (NAC 445B.323.2 Part 70 Program)
5. Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340)(State Only Requirement)

THIS PERMIT EXPIRES ON: July 16, 2009

Signature _____

Issued by: Michael Elges, Chief
Bureau of Air Pollution Control

Phone: (775) 687-9337 **Date:** Month DD, 2004

Insignificant Emission Units

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
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Emission Unit	Emission Unit Description
ICEU-001 ICEU-002 ICEU-004 ICEU-005 ICEU-008 ICEU-009	<p>Boilers, <4.0 MMBtu/hr, #2 Diesel Fired</p> International Boiler, Model BF-100C-W1HL, Serial #637-E, Bldg 102-52 Cleaver Brooks Boiler, Model M4-6000, Serial #46018805, Bldg 104-2 Cleaver Brooks Boiler, Model OB-3, Serial #0-3619, Bldg 103-31 Cleaver Brooks Boiler, Model OB-3, Serial #0-3620, Bldg 103-31 Cleaver Brooks Boiler, Model CBE100-060-150ST, Serial #OL103313, Bldg 104-9 Cleaver Brooks Boiler, Model CBE 100-090-150ST, Serial #OL103314, Bldg 104-4
ICEU-006	<p>Furnaces, <4.0 MMBtu/hr #2 Diesel Fired</p> J.T. Thorpe Inc. Flashing Furnace (WADF), Bldg 117-3
EG-001 EG-002 EG-003 EG-004 EG-005 EG-006	<p>Emergency Generators</p> Onan Generator, 60 KW, Serial #790392949 Onan Generator, 17.5 KW, Serial #G750964362 Kohler Generator, 80 KW, Serial #358882 Cummins Generator, 5.0 KW, Serial #J920487824 Lockheed Generator, 10 KW, Serial #26 Hollingsworth Generator, 5.0 KW, Serial #KA70-0663
	<p>Miscellaneous Insignificant Sources</p> Distillate fuel tanks, base wide Cold solvent cleaners - 19 Chemistry laboratory Naval Undersea Warfare Center - Hawthorne Detachment (NUWC-HD) -- Battery decanning, decasing, washing, and waste water treatment operation

Trivial Emission Units

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Emission Unit	Emission Unit Description
IEU-1-HW IEU-2-HW IEU-4-HW IEU-5-HW IEU-6-HW IEU-7-HW IEU-8-HW IEU-11-HW	<p>Hot Water Heaters, <4.0 MMBtu/hr, #2 Diesel Fired</p> Ajax hot water heater, Model WOFD-2000, serial #22576-8W, Bldg 102-51 Ajax hot water heater, Model WOFD-2000, serial #22579-8W, Bldg 102-51 Bryan flexible tube hot water heater, Model CK240-W-FDO, serial #68279, Bldg 101-71 Ajax hot water heater, Model WOFD-350, serial #75-28624, Bldg 97 Ajax hot water heater, Model WOFD-350, serial #74-27565, Bldg 97 Columbia hot water heater, Model WL-60, serial #113523, Dock 3 Columbia hot water heater, Model WL-60, serial #113524, Dock 3 Peerless hot water heater, Model NPF483451020, serial #FR-48N-3, Bldg 101-48
IEU-12-HW IEU-13-HW IEU-14-HW	<p>Hot Water Heater, <4.0 MMBtu/hr, Propane Fired</p> Raypack boiler, Model H-1826A-CCARCCA, serial #60481, Bldg 703 H.B. Smith boiler, Model PG-300-S/W, serial #A77-0413, Bldg 514 H.B. Smith boiler, Model PG-300-S/W, serial #A77-0413, Bldg 515
IEU-21 IEU-22 IEU-23 IEU-26 IEU-28	<p>Facility Maintenance Welding Units <250 hp, #2 Diesel Fired</p> Miller generator, KW unknown, serial #KJ028593 Miller generator, KW unknown, serial #KJ062307 Miller generator, KW unknown, serial #KJ062308 Lincoln generator, KW unknown, serial #A-1177958 Lincoln generator, KW unknown, serial #A-1175391

Non-Road Engine List

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
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Non-Road Unit	Unit Description
	Generators, <250 hp, #2 Diesel Fired, USMC Mortar Test Range Removed from Insignificant Unit List
MCIG-001	Libby electric generator, 30 KW, serial #RZ5 2782)
MCIG-002	Hollingsworth electric generator, 30 KW, serial #KZO 4018
MCIG-003	Hollingsworth electric generator, 30 KW, serial #KZO 0545
MCIG-004	Westinghouse electric generator, 30 KW, serial #PO 5991)
MCIG-005	John R. Hollingsworth generator, 15 KW, serial #ASK-15-1113
MCIG-006	Kohler Power Systems generator, 30 KW, serial #TO4239D232478
MCIG-007	T & J Manufacturing Powerguard electric generator, 12.5 KW, serial #H923642
MCIG-008	Leroi-Somer generator, 12.5 KW, serial #16781/08
MCIG-009	Kohler Power Systems generator, 30 KW, serial #TO4239D232273
MCIG-010	T & J Manufacturing Powerguard electric generator, 12.5 KW, serial #H923644
MCIG-011	Fermont Division of DCA, electric generator, 60 KW, serial #FZ-03349
MCIG-012	Kohler Power Systems generator, 30 KW, serial #TO4239D232486
MCIG-013	Katolight diesel powered electric generator, 60 KW, serial #LM233538
MCIG-014	Katolight diesel powered electric generator, 60 KW, serial #LM233539
MCIG-015	Katolight diesel powered electric generator, 60 KW, serial #LM233548
MCIG-016	Kato diesel powered electric generator, 60 KW, serial #72031
	Generators Removed From Permitted Unit List
S2.021	Spokane Detroit Diesel Generator, (200 KW), Model UC 127451, Serial #470782
S2.022	AG Schoonmaker Generator, (250 KW), Serial # A109-6
S2.023	AG Schoonmaker Generator, (250 KW), Serial # A109-7
S2.024	Cummins Generator, (500 KW), Serial # PM-19-51166-11/6-01
S2.025	AG Schoonmaker Generator, (250 KW), Serial # A109-11
S2.026	AG Schoonmaker Generator, (250 KW), Serial # A109-12
	Miscellaneous Combustion Device, <4.0 MMBtu/hr, #2 Diesel Fired
ICEU-007	Idromec hydraulic bailer, Model 4200, serial #71A08065

Emission Units Removed From Inventory

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
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Emission Unit	Emission Unit Description
S2.006 S2.008 S2.009 S2.010	<p>Boilers, >4.0 MMBtu/hr, #2 Distillate (#2 Diesel) Fired Nebraska boiler, Model NS-A-42, serial #2D1750, Bldg 101-25 Mund boiler, Model C60-B5570, serial #11738, Bldg 101-42 York Shipley boiler, Model SPH57-170-6, serial #57-3909, Bldg 104-4 Superior boiler, Model #2991, serial #4519, Bldg 101-25</p>
S2.020	<p>Decontamination System Walker-Boudwin flashing chamber (Hot Gas Decontamination System), Bldg 117-15</p>
S2.027 S2.028 S2.029 S2.030	<p>Generators, >250 hp, #2 Distillate (#2 Diesel) Fired Libby Welding Company generator, 200 KW, serial #RZ00025 Libby Welding Company generator, 200 KW, serial #RZ00030 Libby Welding Company generator, 200 KW, serial #RZ00054 Libby Welding Company generator, 200 KW, serial #RZ00057</p>
IEU-18 IEU-19 IEU-20 IEU-24 IEU-25 IEU-27	<p>Facility Generators, <250 hp, #2 Distillate (#2 Diesel) Fired - HWAD Deutz generator, 10 KW, serial #4770966 Deutz generator, 10 KW, serial #4773455 Deutz generator, 10 KW, serial # unknown Lincoln generator, KW unknown, serial #A-117795 Lincoln generator, KW unknown, serial #A-117539 Lincoln generator, KW unknown, serial #A-1175386</p>
IEU-36 IEU-37	<p>Generators, <250 hp, #2 Distillate (#2 Diesel) Fired - USMC Mortar Test Range Toyo Denki generator, 15 KW, serial #Gen-21565 Toyo Denki generator, 15 KW, serial #Gen-21545</p>
IEU-16 IEU-17	<p>Generators, <250 hp, Gasoline Fired - HWAD Hollingsworth generator, 3 KW, serial #KA68-06338 Hollingsworth generator, 3 KW, serial #KA68-07915</p>
EG-002	<p>Emergency Generators, <250 hp, #2 Distillate (#2 Diesel) Fired - HWAD Fermont generator, 100 KW, serial #J26-017</p>
S2.031 S2.032 S2.033	<p>Abrasive Blasters Projectile grit blaster, American Wheelabrator, Model US Army A91043, serial #US Army 8001 1029 APE, Bldg 103-16 Grit blaster, Pangborn Division, Carborundum Co., Model 5060A, serial #6LE-463 Grit blaster, Pangborn Division, Carborundum Co., Model LK-4, serial #6LK4-711, Bldg 103-9</p>
S2.035 S2.036	<p>Woodworking Operations Woodworking operations, Bldg 104-5 Woodworking operations, Bldg 146</p>

Emission Units Removed From Inventory

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
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Emission Unit	Emission Unit Description
S2.019	Furnace, <4.0 MMBtu/hr, Propane (LPG) Fired Aluminum King aluminum/metal melting/recycling furnace, Model AK 7000, serial #1221-95