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

Section VI. Specific Operating Conditions

A. Emission Unit S2.001 Location North 4,267.90 km, East 355.88 km, UTM (Zone 11, NAD 83)

System 01 – 24.5 MMBtu/hr Nebraska Diesel Boiler
S 2.001 24.5 MMBtu/hr Nebraska Boiler, mdl# NS-B-34, s/n D1637, mfd 1974; Building 13

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.49** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.35 pound** per hour.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.70 pound** per hour.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour. This limit is less than the **17.15** pounds per hour maximum allowable emission limit for **S2.001** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.e of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** (sulfur dioxide) to the atmosphere will not exceed **2.52 pounds** per hour. The SO_2 emission limit applies at all times, including periods of startup, shut down, and malfunction.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **3.85 pounds** per hour.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **2.63 pounds** per hour.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.14 pound** per hour.
   i. NAC 445B.305 *Part 70 Program* - The combined annual discharge of pollutants, specified in 2.a through 2.h of this section, to the atmosphere for **S2.001 through S2.004, S2.011, and S2.014** will not exceed the emissions limitations set forth in Section VII.A.1.
   j. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of **S2.001** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 S2.004, S2.011, and S2.014** will not exceed **1,500,000 gallons** annually, based on a 12-month rolling period (see Section VII.A.2, 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.001** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.001** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

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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) *Part 70 Program* (continued)
   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 **S2.001**.
      (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (3) Monitor and record the hours of operation of **S2.001** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor the sulfur content of the **#2 diesel** combusted in **S2.001.**
      (5) Monitor and record that the maintenance and operation of **S2.001** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (6) 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 for **S2.001**.
         (f) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.d of this section for each #2 diesel delivery.
         (g) Observations made and any corrective actions taken on **S2.001** for operation and maintenance in accordance with best management practices.

   c. Within 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 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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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.
      (8) For the purposes of demonstrating compliance with the opacity standard established in 2.j 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).
      (9) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.b 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.
      (10) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

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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) *Part 70 Program* (continued)
   d. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.001** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
      (a) **S2.001** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
      (b) **S2.001** will achieve compliance with the energy assessment requirement no later than March 21, 2014.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
      (a) Conduct a tune-up of **S2.001** biennially as specified in 40 CFR 63.11223.
      (b) Conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include:
         (i) A visual inspection of the boiler system;
         (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
         (iii) Inventory of major systems consuming energy from **S2.001**;
         (iv) A review of available architectural/engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
         (v) A list of major energy conservation measures;
         (vi) A list of the energy savings potential of the energy conservation measures identified;
         (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
   (3) General Requirements – 40 CFR 63.1205(a):
      (a) Permittee must operate and maintain **S2.001** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
      (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
      (b) Permittee must conduct a performance tune-up for **S2.001** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.001** was completed.
      (c) Permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of **S2.001** and its energy use systems was completed and submit upon request, the energy assessment report.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
      (a) Permittee will conduct a biennial performance tune-up for **S2.001** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
      (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
      (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
      (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
      (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

B. Emission Unit S2.002 Location North 4,267.90 km, East 355.88 km, UTM (Zone 11, NAD 83)

System 02 – 24.5 MMBtu/hr Nebraska Diesel Boiler
S 2.002 24.5 MMBtu/hr Nebraska Boiler, mdl# NS-B-34, s/n 2D1639, mfd 1974; Building 13

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.49** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.35 pound** per hour.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.70 pound** per hour.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour. This limit is less than the **17.15** pounds per hour maximum allowable emission limit for **S2.002** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.e of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** (sulfur dioxide) to the atmosphere will not exceed **2.52 pounds** per hour. The SO_2 emission limit applies at all times, including periods of startup, shut down, and malfunction.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **3.85 pounds** per hour.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **2.63 pounds** per hour.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.14 pound** per hour.
   i. NAC 445B.305 *Part 70 Program* - The combined annual discharge of pollutants, specified in 2.a through 2.h of this section, to the atmosphere for **S2.001 through S2.004, S2.011, and S2.014** will not exceed the emissions limitations set forth in Section VII.A.1.
   j. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of **S2.002** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 S2.004, S2.011, and S2.014** will not exceed **1,500,000 gallons** annually, based on a 12-month rolling period (see Section VII.A.2, 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.002** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.002** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken 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) *Part 70 Program* (continued)
   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 **S2.002**.
      (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (3) Monitor and record the hours of operation of **S2.002** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor the sulfur content of the **#2 diesel** combusted in **S2.002.**
      (5) Monitor and record that the maintenance and operation of **S2.002** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (6) 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 for **S2.002**.
         (f) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.d of this section for each #2 diesel delivery.
         (g) Observations made and any corrective actions taken on **S2.002** for operation and maintenance in accordance with best management practices.

   c. Within 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 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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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.
      (8) For the purposes of demonstrating compliance with the opacity standard established in 2.j 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).
      (9) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.b 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.
      (10) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

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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) *Part 70 Program* (continued)
   d. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.002** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
      (a) **S2.002** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
      (b) **S2.002** will achieve compliance with the energy assessment requirement no later than March 21, 2014.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
      (a) Conduct a tune-up of **S2.002** biennially as specified in 40 CFR 63.11223.
      (b) Conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include:
         (i) A visual inspection of the boiler system;
         (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
         (iii) Inventory of major systems consuming energy from **S2.002**;
         (iv) A review of available architectural/engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
         (v) A list of major energy conservation measures;
         (vi) A list of the energy savings potential of the energy conservation measures identified;
         (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
   (3) General Requirements – 40 CFR 63.1205(a):
      (a) Permittee must operate and maintain **S2.002** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
      (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to B.4.d(1) of this section).
      (b) Permittee must conduct a performance tune-up for **S2.002** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.002** was completed.
      (c) Permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of **S2.002** and its energy use systems was completed and submit upon request, the energy assessment report.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
      (a) Permittee will conduct a biennial performance tune-up for **S2.002** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
      (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
      (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
      (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
      (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

C. Emission Unit S2.003 Location North 4,269.92 km, East 359.11 km, UTM (Zone 11, NAD 83)

System 03 – 24.5 MMBtu/hr Nebraska Diesel Boiler
S 2.003 24.5 MMBtu/hr Nebraska Boiler, mdl# NS-B-34, s/n 2D1695, mfd 1975; Building 103-6

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.49** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.35 pound** per hour.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.70 pound** per hour.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour. This limit is less than the **17.15** pounds per hour maximum allowable emission limit for **S2.003** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.e of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** (sulfur dioxide) to the atmosphere will not exceed **2.52 pounds** per hour. The SO_2 emission limit applies at all times, including periods of startup, shut down, and malfunction.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **3.85 pounds** per hour.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **2.63 pounds** per hour.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.14 pound** per hour.
   i. NAC 445B.305 *Part 70 Program* - The combined annual discharge of pollutants, specified in 2.a through 2.h of this section, to the atmosphere for **S2.001 through S2.004, S2.011, and S2.014** will not exceed the emissions limitations set forth in Section VII.A.1.
   j. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of **S2.003** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 S2.004, S2.011, and S2.014** will not exceed **1,500,000 gallons** annually, based on a 12-month rolling period (see Section VII.A.2, 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.003** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.003** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken 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) *Part 70 Program* (continued)
   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 **S2.003**.
      (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (3) Monitor and record the hours of operation of **S2.003** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor the sulfur content of the **#2 diesel** combusted in **S2.003.**
      (5) Monitor and record that the maintenance and operation of **S2.003** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (6) 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 for **S2.003**.
         (f) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.d of this section for each #2 diesel delivery.
         (g) Observations made and any corrective actions taken on **S2.003** for operation and maintenance in accordance with best management practices.

   c. Within 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 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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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.
      (8) For the purposes of demonstrating compliance with the opacity standard established in 2.j 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).
      (9) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.b 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.
      (10) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

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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) *Part 70 Program* (continued)
   d. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.003** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
      (a) **S2.003** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
      (b) **S2.003** will achieve compliance with the energy assessment requirement no later than March 21, 2014.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
      (a) Conduct a tune-up of **S2.003** biennially as specified in 40 CFR 63.11223.
      (b) Conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include:
         (i) A visual inspection of the boiler system;
         (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
         (iii) Inventory of major systems consuming energy from **S2.003**;
         (iv) A review of available architectural/engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
         (v) A list of major energy conservation measures;
         (vi) A list of the energy savings potential of the energy conservation measures identified;
         (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
   (3) General Requirements – 40 CFR 63.1205(a):
      (a) Permittee must operate and maintain **S2.003** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
      (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to C.4.d(1) of this section).
      (b) Permittee must conduct a performance tune-up for **S2.003** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.003** was completed.
      (c) Permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of **S2.003** and its energy use systems was completed and submit upon request, the energy assessment report.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
      (a) Permittee will conduct a biennial performance tune-up for **S2.003** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
      (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
      (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
      (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
      (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

D. Emission Unit S2.004 Location North 4,269.92 km, East 359.11 km, UTM (Zone 11, NAD 83)

System 04 – 24.5 MMBtu/hr Nebraska Diesel Boiler
S 2.004 24.5 MMBtu/hr Nebraska Boiler, mdl# NS-B-34, s/n 2D1733, mfd 1975; Building 103-6

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.49** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.35 pound** per hour.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.70 pound** per hour.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **1.26 pounds** per hour. This limit is less than the **17.15** pounds per hour maximum allowable emission limit for **S2.004** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.e of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** (sulfur dioxide) to the atmosphere will not exceed **2.52 pounds** per hour. The SO_2 emission limit applies at all times, including periods of startup, shut down, and malfunction.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **3.85 pounds** per hour.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **2.63 pounds** per hour.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.14 pound** per hour.
   i. NAC 445B.305 *Part 70 Program* - The combined annual discharge of pollutants, specified in 2.a through 2.h of this section, to the atmosphere for **S2.001 through S2.004, S2.011, and S2.014** will not exceed the emissions limitations set forth in Section VII.A.1.
   j. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of **S2.004** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 S2.004, S2.011, and S2.014** will not exceed **1,500,000 gallons** annually, based on a 12-month rolling period (see Section VII.A.2, 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.004** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.004** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken 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) *Part 70 Program* (continued)
   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 **S2.004**.
      (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (3) Monitor and record the hours of operation of **S2.004** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor the sulfur content of the **#2 diesel** combusted in **S2.004.**
      (5) Monitor and record that the maintenance and operation of **S2.004** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (6) 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 for **S2.004**.
         (f) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.d of this section for each #2 diesel delivery.
         (g) Observations made and any corrective actions taken on **S2.004** for operation and maintenance in accordance with best management practices.

   c. Within 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 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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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.
      (8) For the purposes of demonstrating compliance with the opacity standard established in 2.j 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).
      (9) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.b 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.
      (10) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

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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) *Part 70 Program* (continued)
   d. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.004** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
      (a) **S2.004** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
      (b) **S2.004** will achieve compliance with the energy assessment requirement no later than March 21, 2014.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
      (a) Conduct a tune-up of **S2.004** biennially as specified in 40 CFR 63.11223.
      (b) Conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include:
         (i) A visual inspection of the boiler system;
         (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
         (iii) Inventory of major systems consuming energy from **S2.004**;
         (iv) A review of available architectural/engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
         (v) A list of major energy conservation measures;
         (vi) A list of the energy savings potential of the energy conservation measures identified;
         (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
   (3) General Requirements – 40 CFR 63.1205(a):
      (a) Permittee must operate and maintain **S2.004** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
      (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to C.4.d(1) of this section).
      (b) Permittee must conduct a performance tune-up for **S2.004** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.004** was completed.
      (c) Permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of **S2.004** and its energy use systems was completed and submit upon request, the energy assessment report.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
      (a) Permittee will conduct a biennial performance tune-up for **S2.004** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
      (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
      (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
      (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
      (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

G. Emission Unit S2.011 Location North 4,273.21 km, East 356.15 km, UTM (Zone 11, NAD 83)

System 07 – 18.5 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.011 18.5 MMBtu/hr Cleaver Brooks Boiler, mdl# CB-100-400, s/n L89956, mfd 1991; Building 117-2

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.52** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.26 pound** per hour.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.53 pound** per hour.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.95 pound** per hour. This limit is less than the **12.95** pounds per hour maximum allowable emission limit for **S2.011** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.e of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** (sulfur dioxide) to the atmosphere will not exceed **1.90 pounds** per hour. The SO_2 emission limit applies at all times, including periods of startup, shut down, and malfunction.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **2.90 pounds** per hour.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **1.98 pounds** per hour.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.11 pound** per hour.
   i. NAC 445B.305 *Part 70 Program* - The combined annual discharge of pollutants, specified in 2.a through 2.h of this section, to the atmosphere for **S2.001 through S2.004, S2.011, and S2.014** will not exceed the emissions limitations set forth in Section VII.A.1.
   j. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of **S2.011** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 S2.004, S2.011, and S2.014** will not exceed **1,500,000 gallons** annually, based on a 12-month rolling period (see Section VII.A.2, 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.011** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.011** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken 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) *Part 70 Program* (continued)
   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 **S2.011**.
      (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (3) Monitor and record the hours of operation of **S2.011** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor the sulfur content of the **#2 diesel** combusted in **S2.011.**
      (5) Monitor and record that the maintenance and operation of **S2.011** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (6) 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 for **S2.011**.
         (f) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.d of this section for each #2 diesel delivery.
         (g) Observations made and any corrective actions taken on **S2.011** for operation and maintenance in accordance with best management practices.

   c. Within 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 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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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.
      (8) For the purposes of demonstrating compliance with the opacity standard established in 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).
      (9) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.b 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.
      (10) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

   d. New Source Performance Standards (NSPS) – Notification and Recordkeeping 40 CFR Part 60, Section 60.7(b);
      40 CFR Part 60.48c (Subpart Dc, "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units").
      Permittee, upon the issuance date of this permit shall:
      (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
      (2) Pursuant to 40 CFR Part 60, Subpart Dc, Section 60.48c(g) and 60.48c(i), facility shall record and maintain readily accessible records of the amounts of natural gas combusted during each day of operation for **S2.011**. The records shall be kept for a period of 2 years following the date of such record.
      (3) Pursuant to 40 CFR Part 60, Subpart Dc, Section 60.48c(j), facility shall report the results in 4.d.(2) of this section every 6-months. The reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

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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) *Part 70 Program* (continued)
   e. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.011** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.011** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (b) **S2.011** will achieve compliance with the energy assessment requirement no later than March 21, 2014.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.011** biennially as specified in 40 CFR 63.11223.
   (b) Conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include:
   (i) A visual inspection of the boiler system;
   (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
   (iii) Inventory of major systems consuming energy from **S2.011**;
   (iv) A review of available architectural/engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
   (v) A list of major energy conservation measures;
   (vi) A list of the energy savings potential of the energy conservation measures identified;
   (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.011** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to C.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.011** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.011** was completed.
   (c) Permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of **S2.011** and its energy use systems was completed and submit upon request, the energy assessment report.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.011** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

H. Emission Unit S2.014 Location North 4,273.21 km, East 356.15 km, UTM (Zone 11, NAD 83)

System 08 – 18.5 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.014 18.5 MMBtu/hr Cleaver Brooks Boiler, mdl# CB-(LE)100-400, s/n L095723, mfd 1996; Building 117-2

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.52** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.26 pound** per hour.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.53 pound** per hour.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.95 pound** per hour. This limit is less than the **12.95** pounds per hour maximum allowable emission limit for **S2.014** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.e of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** (sulfur dioxide) to the atmosphere will not exceed **1.90 pounds** per hour. The SO_2 emission limit applies at all times, including periods of startup, shut down, and malfunction.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed **2.90 pounds** per hour.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **1.98 pounds** per hour.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **0.11 pound** per hour.
   i. NAC 445B.305 *Part 70 Program* - The combined annual discharge of pollutants, specified in 2.a through 2.h of this section, to the atmosphere for **S2.001 through S2.004, S2.011, and S2.014** will not exceed the emissions limitations set forth in Section VII.A.1.
   j. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of **S2.014** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 **S2.014** will not exceed **132 gallons** per any one-hour period.
   c. Total combined **#2 diesel fuel** consumption for **S2.001 through S2.004, S2.011, and S2.014** will not exceed **1,500,000 gallons** annually, based on a 12-month rolling period (see Section VII.A.2, 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.014** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.014** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

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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) *Part 70 Program* (continued)
   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 **S2.014**.
      (2) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (3) Monitor and record the hours of operation of **S2.014** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor the sulfur content of the **#2 diesel** combusted in **S2.014.**
      (5) Monitor and record that the maintenance and operation of **S2.014** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (6) 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 for **S2.014**.
         (f) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.d of this section for each #2 diesel delivery.
         (g) Observations made and any corrective actions taken on **S2.014** for operation and maintenance in accordance with best management practices.

   c. Within 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 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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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.
      (8) For the purposes of demonstrating compliance with the opacity standard established in 2.j 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).
      (9) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in 3.b 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.
      (10) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

   d. New Source Performance Standards (NSPS) – Notification and Recordkeeping 40 CFR Part 60, Section 60.7(b);
      40 CFR Part 60.48c (Subpart Dc, "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units").
      Permittee, upon the issuance date of this permit shall:
      (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
      (2) Pursuant to 40 CFR Part 60, Subpart Dc, Section 60.48c(g) and 60.48c(i), facility shall record and maintain readily accessible records of the amounts of natural gas combusted during each day of operation for **S2.014**. The records shall be kept for a period of 2 years following the date of such record.
      (3) Pursuant to 40 CFR Part 60, Subpart Dc, Section 60.48c(j), facility shall report the results in 4.d.(2) of this section every 6-months. The reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

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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) *Part 70 Program* (continued)
   e. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
      Permittee must comply with the following applicable requirements for **S2.014** (an existing industrial boiler at an area source of HAP emissions):
      (1) Compliance Dates – 40 CFR 63.11196
         (a) **S2.014** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
         (b) **S2.014** will achieve compliance with the energy assessment requirement no later than March 21, 2014.
      (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
         (a) Conduct a tune-up of **S2.014** biennially as specified in 40 CFR 63.11223.
         (b) Conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include:
            (i) A visual inspection of the boiler system;
            (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
            (iii) Inventory of major systems consuming energy from **S2.014**;
            (iv) A review of available architectural/engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
            (v) A list of major energy conservation measures;
            (vi) A list of the energy savings potential of the energy conservation measures identified;
            (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
      (3) General Requirements – 40 CFR 63.1205(a):
         (a) Permittee must operate and maintain **S2.014** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
      (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
         (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to C.4.d(1) of this section).
         (b) Permittee must conduct a performance tune-up for **S2.014** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.014** was completed.
         (c) Permittee must submit a signed certification in the Notification of Compliance Status report that an energy assessment of **S2.014** and its energy use systems was completed and submit upon request, the energy assessment report.
      (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
         (a) Permittee will conduct a biennial performance tune-up for **S2.014** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
      (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
         (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
         (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
         (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
         (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

I. Emission Unit S2.015 Location North 4,273.23 km, East 355.61 km, UTM (Zone 11; NAD 83)

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) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.080 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 as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.080 pound** per hour, nor more than **0.35 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the wet scrubber (MD-16) stack discharge for **S2.015** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable charge or weight rate for **S2.015** 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.015** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.015** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record the hours of operation of **S2.015** on a daily basis when operated.
      (3) Following the determination of the pressure drop value or pressure drop range as required in 4.c.(4) of this section, 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.c.(4) of this section.
      (4) Monitor and record that the maintenance and operation of the wet scrubber (MD-16) is in accordance with best management practices 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 best management practices.

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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) *Part 70 Program* – (continued)
   c. Within 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 tests on the exhaust stack of the wet scrubber for **S2.015**:
      (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 121^0C (250^0F)) 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 PM_{10}).
      (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 PM_{10} emissions for determination of compliance with the emission limitations established in 2.a 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 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 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.
      (7) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

J. Emission Unit S2.016 Location North 4,272.94 km, East 355.83 km, UTM (Zone 11, NAD 83)

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) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** 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 as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *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.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the wet scrubber (WS-24) stack discharge for **S2.016** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.016** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.016** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record the hours of operation of **S2.016** on a daily basis when operated.
      (3) Following the determination of the pressure drop value or pressure drop range as required in 4.c.(4) of this section, 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 4.c.(4) of this section.
      (4) Monitor and record that the maintenance and operation of the wet scrubber (WS-24) is in accordance with best management practices 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 best management practices.

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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) *Part 70 Program* – (continued)
   c. Within 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 tests on the exhaust stack of the wet scrubber for **S2.016**:
      (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 121^0C (250^0F)) 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 PM_{10}).
      (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 PM_{10} emissions for determination of compliance with the emission limitations established in 2.a 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 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 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.
      (7) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

K. Emission Unit S2.017 Location North 4,272.92 km, East 355.85 km, UTM (Zone 11, NAD 83)

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) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** 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 as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *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.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the wet scrubber (HC-15) stack discharge for **S2.017** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.017** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.017** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record the hours of operation of **S2.017** on a daily basis when operated.
      (3) Following the determination of the pressure drop value or pressure drop range as required in 4.c.(4) of this section, 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.c.(4) of this section.
      (4) Monitor and record that the maintenance and operation of the wet scrubber (HC-15) is in accordance with best management practices 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 monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (d) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.
         (f) The daily wet scrubber (HC-15) pressure drop observation and the corresponding maximum, minimum or range of the pressure drop established for demonstrating compliance.
         (g) Observations made and any corrective actions taken on the wet scrubber for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

K. Emission Unit S2.017 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* – (continued)
   c. Within 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 tests on the exhaust stack of the wet scrubber for **S2.017**:
      (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 121^0C (250^0F)) 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 PM_{10}).
      (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 PM_{10} emissions for determination of compliance with the emission limitations established in 2.a 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 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 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.
      (7) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

L. Emission Unit S2.018 Location North 4,272.92 km, East 355.86 km, UTM (Zone 11, NAD 83)

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) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** 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 as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *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.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the wet scrubber (HC-12) stack discharge for **S2.018** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.018** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.018** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record the hours of operation of **S2.018** on a daily basis when operated.
      (3) Following the determination of the pressure drop value or pressure drop range as required in 4.c.(4) of this section, 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.c.(4) of this section.
      (4) Monitor and record that the maintenance and operation of the wet scrubber (HC-12) is in accordance with best management practices 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 monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (d) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.
         (f) The daily wet scrubber (HC-12) pressure drop observation and the corresponding maximum, minimum or range of the pressure drop established for demonstrating compliance.
         (g) Observations made and any corrective actions taken on the wet scrubber for operation and maintenance in accordance with best management practices.

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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) *Part 70 Program* – (continued)
   c. Within 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 tests on the exhaust stack of the wet scrubber for **S2.018**:
      (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 121^0C (250^0F)) 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 PM_{10}.
      (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 PM_{10} emissions for determination of compliance with the emission limitations established in 2.a 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 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 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.
      (7) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

M1. Emission Units PF1.001 and PF1.002 Location Portable within the Main Base Facility

System 13A – Screen Plant - Loading		
PF	1.001	Material transfer to Feed Hopper
PF	1.002	Feed Hopper transfer to Conveyor 1

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **PF1.001 and PF1.002** shall be controlled by operating the units in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **PF1.001 and PF1.002**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.001 and PF1.002**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.066 pound** per hour each, nor more than **0.036 ton** per year each, based on a 12-month rolling period. This limit is less than the **46.29 pounds** per hour maximum allowable emission limit for **PF1.001 and PF1.002** each, as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput each, as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.18 pound** per hour each, nor more than **0.097 ton** per year each, based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* -The opacity from **PF1.001 and PF1.002** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.001 and PF1.002** each, will not exceed **60.0 tons** of aggregate per any one-hour period.
   b. Hours
      (1) **PF1.001 and PF1.002** each, will not operate in excess of **8** hours per day.
      (2) **PF1.001 and PF1.002** 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.001 and PF1.002** each, in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.001 and PF1.002** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.001 and PF1.002** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.001 and PF1.002** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

M2. Emission Unit PF1.004 Location Portable within the Main Base Facility

System 13B – Screen Plant - Screening		
PF	1.004	Fab Tec 3-Deck Screen (mdl# 1, s/n P-136-A-91) and associated transfers in (Conveyor 1) and out (Screen Discharge #1, Screen Discharge #2, Screen Discharge #3)

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **PF1.004** shall be controlled by operating the units in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **PF1.004**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.004**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.52 pound** per hour, nor more than **0.28 ton** per year, based on a 12-month rolling period. This limit is less than the **46.29 pounds** per hour maximum allowable emission limit for **PF1.004** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **1.50 pounds** per hour, nor more than **0.81 ton** per year each, based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* -The opacity from **PF1.004** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.004** will not exceed **60.0 tons** of aggregate per any one-hour period.
   b. Hours
      (1) **PF1.004** will not operate in excess of **8** hours per day.
      (2) **PF1.004** will not operate in excess of **1,080** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.004** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.004** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.004** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.004** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

N1. Emission Unit PF1.008 Location Portable within the Main Base Facility

System 14A – Screen/Crush Plant - Loading		
PF	1.008	Truck/End Dump transfer to Grizzly/Apron Feeder

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **PF1.008** shall be controlled by operating the units in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **PF1.008**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.008**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0015 pound** per hour, nor more than **0.0010 ton** per year, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.008** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0031 pound** per hour, nor more than **0.0020 ton** per year based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* -The opacity from **PF1.008** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.008** will not exceed **93.0 tons** of aggregate per any one-hour period.
   b. Hours
      (1) **PF1.008** will not operate in excess of **8** hours per day.
      (2) **PF1.008** will not operate in excess of **1,296** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.008** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.008** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.008** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.008** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

N2. Emission Units PF1.009 and PF1.015 Location Portable within the Main Base Facility

System 14B – Screen/Crush Plant - Transfers		
PF	1.009	Apron Feeder transfer to Conveyor 1
PF	1.015	Conveyor 2 transfer to Conveyor 1

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **PF1.009 and PF1.015** shall be controlled by water sprays located at **PF1.009 and PF1.015** each.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **PF1.009 and PF1.015**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.009 and PF1.015**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.031 pound** per hour each, nor more than **0.020 ton** per year each, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.009 and PF1.015** each, as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput each, as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.084 pound** per hour each, nor more than **0.054 ton** per year each, based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* -The opacity from **PF1.009 and PF1.015** each, will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.009 and PF1.015** each, will not exceed **93.0 tons** of aggregate per any one-hour period.
   b. Hours
      (1) **PF1.009 and PF1.015** each, will not operate in excess of **8** hours per day.
      (2) **PF1.009 and 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.009 and PF1.015** each, in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.009 and PF1.015** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.009 and PF1.015** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.009 and PF1.015** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

N3. Emission Unit PF1.011 Location Portable within the Main Base Facility

System 14C – Screen/Crush Plant - Screening		
PF	1.011	El Jay 3-Deck Screen (mdl# FSG 5143-24, s/n FSG 5143-24) and associated transfers in (Conveyor 1) and out (Cone Crusher, Screen Discharge #1, Screen Discharge #2, Screen Discharge #3)

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **PF1.011** shall be controlled by water sprays located at **PF1.011**.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **PF1.011**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.011**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of $\mathbf{PM_{10}}$ to the atmosphere will not exceed **0.24 pound** per hour, nor more than **0.16 ton** per year, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.011** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.70 pound** per hour, nor more than **0.45 ton** per year based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* -The opacity from **PF1.011** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.011** will not exceed **93.0 tons** of aggregate per any one-hour period.
   b. Hours
      (1) **PF1.011** will not operate in excess of **8** hours per day.
      (2) **PF1.011** will not operate in excess of **1,296** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.011** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.011** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.011** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.011** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

N4. Emission Unit PF1.013 Location Portable within the Main Base Facility

System 14D – Screen/Crush Plant - Crushing		
PF	1.013	Cedarapids Cone Crusher (mdl# WRC-36, s/n 36-5-14-3-103-93) and associated transfers in (El Jay Screen) and out (Conveyor 2)

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **PF1.013** shall be controlled by water sprays located at **PF1.013**.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **PF1.013**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.013**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.067 pound** per hour, nor more than **0.043 ton** per year, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.013** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.15 pound** per hour, nor more than **0.098 ton** per year based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* -The opacity from **PF1.013** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.013** will not exceed **93.0 tons** of aggregate per any one-hour period.
   b. Hours
      (1) **PF1.013** will not operate in excess of **8** hours per day.
      (2) **PF1.013** will not operate in excess of **1,296** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.013** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.013** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.013** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.013** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

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

System 16 – Stacker		
PF	1.017	Fab Tec 30' Radial Stacker, s/n 30-50-RSH-21-91

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   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:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.10 pound** per hour, nor more than **0.066 ton** per year, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.017** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.28 pound** per hour, nor more than **0.18 ton** per year based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.017** will not exceed **93.0 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.017** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.017** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.017** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.017** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

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

System 17 - Stacker		
PF	1.018	Fab Tec 30' Radial Stacker, s/n 30-50-RSH-22-91

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   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:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.10 pound** per hour, nor more than **0.066 ton** per year, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.018** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.28 pound** per hour, nor more than **0.18 ton** per year based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.018** will not exceed **93.0 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.018** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.018** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.018** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.018** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

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

System 18 - Stacker		
PF	1.019	Fab Tec 30' Radial Stacker, s/n 30-50-RSH-23-91

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   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:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.10 pound** per hour, nor more than **0.066 ton** per year, based on a 12-month rolling period. This limit is less than the **50.55 pounds** per hour maximum allowable emission limit for **PF1.019** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.28 pound** per hour, nor more than **0.18 ton** per year based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. Maximum allowable throughput for **PF1.019** will not exceed **93.0 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **PF1.019** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **PF1.019** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the throughput of aggregate for **PF1.019** on a daily basis when operated.
      (2) Monitor and record the hours of operation of **PF1.019** on a daily basis when operated.
      (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 daily throughput rate of aggregate in tons, for the corresponding date.
         (c) The total daily hours of operation for the corresponding date.
         (d) The corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
         (e) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (b) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
         (f) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

S. Emission Unit S2.034 Location North 4,266.42 km, East 359.85 km, UTM (Zone 11, NAD 83)

System 19 – Plastic Media Blast Booth
S 2.034 Plastic Media Blast Booth, mfd by Paul & Griffin, mdl# PRAM 11, s/n 348; Building 49-SH-9

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** 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. This limit is equal to the **2.22 pounds** per hour maximum allowable emission limit for **S2.034** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *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 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of DC-004 for **S2.034** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 shall conduct and record a visible emissions test on **S2.034** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.034** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the hours of operation of **S2.034** on a daily basis when operated.
      (2) Monitor and record that the maintenance and operation of the baghouse is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 daily hours of operation for the corresponding date.
         (c) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.
         (d) Observations made and any corrective actions taken on the baghouse for operation and maintenance in accordance with best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
No shield requested.

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Section VI. Specific Operating Conditions (continued)

T. Emission Unit S2.037 Location North 4,269.74 km, East 358.75 km, UTM (Zone 11, NAD 83)

System 20 – Surface Coating Booth
S 2.037 Surface Coating Booth, mfd by Devilbiss; Building 103-16

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0054 pound** per hour, nor more than **0.024 ton** per year, based on a 12-month rolling period. This limit is less than the **0.026 pound** per hour maximum allowable emission limit for **S2.037** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)*.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.011 pound** per hour, nor more than **0.047 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* – The discharge of **VOC** to the atmosphere will not exceed **5.04 tons** per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *Federally Enforceable SIP 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) *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 **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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.037** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.037** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

U. Emission Unit S2.038 Location North 4,267.54 km, East 355.86 km, UTM (Zone 11, NAD 83)

System 21 – Surface Coating Booth		
S	2.038	Surface Coating Booth; Building 26

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0005 pound** per hour, nor more than **0.0023 ton** per year, based on a 12-month rolling period. This limit is less than the **0.0058 pound** per hour maximum allowable emission limit for **S2.038** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)*.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0011 pound** per hour, nor more than **0.0049 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* – The discharge of **VOC** to the atmosphere will not exceed **0.70 ton** per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *Federally Enforceable SIP 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) *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 **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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.038** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.038** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

V. Emission Unit S2.039 Location North 4,267.54 km, East 355.86 km, UTM (Zone 11, NAD 83)

System 22 – Surface Coating Booth		
S	2.039	Surface Coating Booth; 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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0005 pound** per hour, nor more than **0.0023 ton** per year, based on a 12-month rolling period. This limit is less than the **0.0058 pound** per hour maximum allowable emission limit for **S2.039** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)*.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0011 pound** per hour, nor more than **0.0049 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* – The discharge of **VOC** to the atmosphere will not exceed **0.70 ton** per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *Federally Enforceable SIP 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) *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 **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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.039** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.039** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

W. Emission Unit S2.040 Location North 4,266.42 km, East 359.85 km, UTM (Zone 11, NAD 83)

System 23 – Surface Coating Booth
S 2.040 Surface Coating Booth; 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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0021 pound** per hour, nor more than **0.0094 ton** per year, based on a 12-month rolling period. This limit is less than the **0.0074 pound** per hour maximum allowable emission limit for **S2.040** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)*.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0045 pound** per hour, nor more than **0.020 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* – The discharge of **VOC** to the atmosphere will not exceed **1.35 tons** per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *Federally Enforceable SIP 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) *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 **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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.040** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.040** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
No shield requested.

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

Section VI. Specific Operating Conditions (continued)

X. Emission Unit S2.041 Location North 4,265.98 km, East 360.58 km, UTM (Zone 11, NAD 83)

System 24 – Surface Coating Booth
S 2.041 Surface Coating Booth, mfd by Devilbiss, mdl# XCF-610, s/n 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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0018 pound** per hour, nor more than **0.0081 ton** per year, based on a 12-month rolling period. This limit is less than the **0.0068 pound** per hour maximum allowable emission limit for **S2.041** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)*.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0039 pound** per hour, nor more than **0.017 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* – The discharge of **VOC** to the atmosphere will not exceed **1.50 tons** per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *Federally Enforceable SIP 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) *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 **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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.041** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.041** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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 when operated.
      (2) Monitor and record that the maintenance and operation of the dry filters is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
No shield requested.

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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 Location North 4,273.20 km, East 356.15 km, UTM (Zone 11, NAD 83)

System 26 – Plasma Ordnance Disposal System (PODS)
S 2.043 PODS Waste Handling and Blending, mfd by MSE Technologies, Inc.; Building 117-2

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.086 pound** per hour, nor more than **0.27 ton** per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.086 pound** per hour, nor more than **0.27 ton** per year, based on a 12-month rolling period.
      (3) NAC 445B.305 *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. This limit is less than the **2.10 pounds** per hour maximum allowable emission limit for **S2.043** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.f of this section.
      (4) NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **3.50 pounds** per hour, nor more than **10.92 tons** per year, based on a 12-month rolling period.
      (5) NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **6.00 pounds** per hour, nor more than **18.72 tons** per year, based on a 12-month rolling period.
      (6) NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.15 pound** per hour, nor more than **0.46 ton** per year, based on a 12-month rolling period.
      (7) NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.067 pound** per hour, nor more than **0.21 ton** per year, based on a 12-month rolling period.
      (8) NAC 445B.22017 *Federally Enforceable SIP 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):	120 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) *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 2 of this section 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 4removal 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:

$$DRE = \{1 - (W_{out}/W_{in}\} \times 100\%$$

      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 tetro-, 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 presents 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 3.b.(1) and (2) of this section.
         (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) *Part 70 Program* (continued)
   c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (q)): 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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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (q)) (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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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (q)) (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. Permittee is 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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Section VI. Specific Operating Conditions (continued)

Z. Emission Unit S2.043 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (q)) (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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.043** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.043** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   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** on a daily basis when operated.
      (2) Monitor and record the #2 distillate fuel combusted, as measured by the fuel flow meter, on a daily basis when operated.
      (3) Monitor and records the hours of operation of **S2.043** on a daily basis when operated.
      (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) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (e) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.g. of this section.
         (g) Each batch or charge weight rate as fed to **S2.043** for each batch or charge processed for the corresponding date.
         (h) The daily secondary combustion chamber minimum temperature value observation and corresponding minimum temperature value established in 3.b(3) of this section for demonstrating compliance.
         (i) Observations made and any corrective actions taken on **S2.043** for operation and maintenance with best management practices.

   c. Performance 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 tests on the PODS exhaust stack:
      (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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (3) The Method 201A/202 tests required in this section may be replaced by a Method 5/202 test. All particulate captured in the Method 5/202 tests performed under this provision shall be considered PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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.b 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 3.e 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) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

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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) *Part 70 Program*
   d. 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.
      (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, semivolatile metals, 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).

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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) *Part 70 Program* (continued)
   d. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (n)) (continued)
      (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.
      (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.

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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) *Part 70 Program* (continued)
   e. 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.
      (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.

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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) *Part 70 Program* (continued)
   f. 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
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

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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) *Part 70 Program* (continued)
   f. Permittee will be subject to the following monitoring requirements (Adapted from 40 CFR Part 63.1209) (continued):

Reference	Requirement
40 CFR Part 63.1209(n) 40 CFR Part 63.1209(n)(1) 40 CFR Part 63.1209(n)(2) 40 CFR Part 63.1209(n)(3) 40 CFR Part 63.1209(n)(4) 40 CFR Part 63.1209(n)(5)	Compliance With Semivolatile Metals and Low Volatile Metals Emission Standards Maximum Inlet Gas Temperature (Dry Particulate Control Device) Maximum Feed rate of Semivolatile Metals and Low Volatile Metals Control Device Operating Parameter Limits Maximum Total Chlorine and Chloride Feed rate Maximum Flue Gas Flow rate or Production Rate
40 CFR Part 63.1209(o) 40 CFR Part 63.1209(o)(1) 40 CFR Part 63.1209(o)(2) 40 CFR Part 63.1209(o)(3) 40 CFR Part 63.1209(o)(4)	Compliance With Hydrochloric Acid and Chlorine Gas Emission Limits Feed rate of Total Chlorine and Chloride Maximum Flue Gas Flow rate or Production Rate Wet Scrubber (If Applicable) 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

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *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 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 10th exceedance
63.1206(c)(4)(iv)	Emergency safety vent opening reports	5 days after occurrence
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

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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) *Part 70 Program* (continued)
   g. Specific Reporting and Recordkeeping Requirements (Adapted from 40 CFR Part 63.1209) (continued)
   Permittee will be required to submit the following reports to NDEP-BAPC:

Reference	Document, Data, or Information	Frequency
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 10th exceedance
63.1206(c)(4)(iv)	Emergency safety vent opening reports	5 days after occurrence

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AA. Emission Unit S2.044 Location North 4,273.48 km, East 355.99 km, UTM (Zone 11, NAD 83)

System 27 – Hot Gas Decontamination System
S 2.044 Hot Gas Decontamination System, mfd by Epcon Industrial Systems, Inc., mdl# E-04-T-50-75, s/n 536-945; Building 117-16

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.58** pound per million Btu.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.38 pound** per hour, nor more than **1.14 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.38 pound** per hour, nor more than **1.14 ton** per year, based on a 12-month rolling period.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.56 pound** per hour, nor more than **1.68 tons** per year, based on a 12-month rolling period. This limit is less than the **7.84** pounds per hour maximum allowable emission limit for **S2.044** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** 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.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **4.85 pounds** per hour, nor more than **14.60 tons** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.40 pound** per hour, nor more than **1.20 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.12 pound** per hour, nor more than **0.36 ton** per year, based on a 12-month rolling period.
   i. NAC 445B.305 *Part 70 Program* - The discharge of **lead compounds** to the atmosphere will not exceed **0.0073 pound** per hour, nor more than **0.022 ton** per year, based on a 12-month rolling period.
   j. NAC 445B.22017 *Federally Enforceable SIP 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) *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 **80.0 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) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.044** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.044** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

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Section VI. Specific Operating Conditions (continued)

AA. Emission Unit S2.044 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   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 when operated.
      (3) Monitor and record the hours of operation of **S2.044** while burning #2 diesel fuel on a daily basis when operated.
      (4) Monitor and record each batch or charge weight rate of energetic residual material processed on a daily basis when operated.
      (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 best management practices 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) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (e) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.f. of this section.
         (g) Weight of each batch or charge weight rate of energetic residual material fed to **S2.044** for the corresponding date.
         (h) Observations made and any corrective actions taken on **S2.044** for operation and maintenance in accordance with best management practices.

   c. Within 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 tests on the exhaust stack of **S2.044**:
      (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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (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 PM_{10} emissions for determination of compliance with the emission limitations established in 2.b 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 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 throughputs, as established in 3.b and 3.e 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) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AB. Emission Units F1.001 through F1.020 Location North 4,267.52 km, East 355.87 km, UTM (Zone 11, NAD 83)

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) *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) *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.B, "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) *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) *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) *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) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AC. Emission Unit S2.045 Location North 4,270.58 km, East 360.00 km, UTM (Zone 11, NAD 83)

System 29 - Soil Vent Extraction (SVE) and Thermal Oxidizer System
S 2.045 Soil Vent Extraction and Thermal Oxidizer System, mfd by EnviroSupply and Service Inc., mdl# TC 2500, s/n 03-1514; Building 336 Site

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *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) *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.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0090 pound** per hour, nor more than **0.039 ton** per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.023 pound** per hour, nor more than **0.10 ton** per year, based on a 12-month rolling period.
      (3) NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.0018 pound** per hour, nor more than **0.0077 ton** per year, based on a 12-month rolling period. This limit is less than the **1.40** pounds per hour maximum allowable emission limit for **S2.045** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.c of this section.
      (4) NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.0032 pound** per hour, nor more than **0.014 ton** per year, based on a 12-month rolling period.
      (5) NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.38 pound** per hour, nor more than **1.64 tons** per year, based on a 12-month rolling period.
      (6) NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.15 pound** per hour, nor more than **0.65 ton** per year, based on a 12-month rolling period.
      (7) NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.73 ton** per year, based on a 12-month rolling period.
      (8) NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of TO-001 for **S2.045** will not equal or exceed **20** percent in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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** will not exceed an average hourly rate of **580 cubic feet (15.9 gallons, 36.4 ft^3/gallon))** per hour.
   c. The maximum individual operating heat input rate for **S2.045** will not exceed **2.0 MMBtu** per hour.
   d. Maximum vapor treatment rate will not exceed **1,470 scfm**.
   e. The burner system will maintain a temperature in the combustion chamber of **1,450 to 1,800 degrees F**.
   f. **S2.045** may operate **8,760** hours per calendar year.

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Section VI. Specific Operating Conditions (continued)

AC. Emission Units S2.045 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.045** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.045** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. 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).
   (6) Monitor and record that the maintenance and operation of **S2.045** is in accordance with best management practices 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.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 Location North 4,273.29 km, East 355.97 km, UTM (Zone 11, NAD 83)

System 30 – Munitions Detonation Rotary Kiln (MDRK) and Metal Feeding/Recycling System (RF-9)		
S	2.046	MDRK and Metal Feeding/Recycling System, mfd Parameter, Inc., mdl# APE 2210, s/n A-WF-7 (4.13 MMBtu/hr Heat Input)
S	2.047	Primary Combustion Chamber, mfd Hauck, mdl# 784PAC (8.2 MMBtu/hr Heat Input)

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Emissions from **S2.046 and S2.047** shall be ducted to the following emissions control system with 100% capture and a maximum volume flow rate of 6,000 actual cubic feet per minute (ACFM):

(1) Primary Combustion Chamber
(2) Evaporative Cooler
(3) Calcium Hydroxide ($Ca(OH)_2$) Lime Adsorption
(4) Baghouse

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).

Emissions from **S2.046 and S2.047** shall be ducted to a common stack with the following characteristics:

Stack Height: 45.0 feet
Stack Diameter: 1.67 feet
Stack Velocity: 51.0 feet/sec
Stack Temperature: 350 ^{0}F (normal operating condition)

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. On and after the date of startup of **S2.046 and S2.047**, Permittee will not discharge or cause the discharge into the atmosphere from the common exhaust stack of **S2.046 and S2.047 combined**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.2203 *Federally Enforceable SIP Requirement* - The discharge of **PM_{10}** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.57 pound** per million Btu.
      (2) NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.39 pound** per hour, nor more than **0.90 ton** per year, based on a 12-month rolling period. This limit is less than the **1.22 pounds** per hour maximum allowable emission limit as determined from NAC 445B.2207 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughputs as limited in AD.3.e and AD.3.f of this section.
      (3) NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.39 pound** per hour, nor more than **0.90 ton** per year, based on a 12-month rolling period.
      (4) NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **8.54 pounds** per hour, nor more than **19.90 tons** per year, based on a 12-month rolling period. This limit is less than the **8.63 pounds** per hour maximum allowable emission limit as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the combined maximum allowable throughputs as limited in AD.3.g and AD.3.h of this section.
      (5) NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **17.08 pounds** per hour, nor more than **39.80 tons** per year, based on a 12-month rolling period.
      (6) NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **47.30 pounds** per hour, nor more than **110.21 tons** per year, based on a 12-month rolling period.
      (7) NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.76 pound** per hour, nor more than **1.76 tons** per year, based on a 12-month rolling period.
      (8) NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.12 pound** per hour, nor more than **0.28 ton** per year, based on a 12-month rolling period.
      (9) NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from **S2.043** will not equal or exceed **20%** in accordance with NAC 445B.22017.
      (10) NAC 445B.2207 *Federally Enforceable SIP Requirement* - Incinerator burning which produces, for periods totaling 1 minute in 1 hour, a visible emission which is of an opacity equal to or greater than **20%** is prohibited.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. On and after the date of startup of **S2.046 and S2.047**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.046 and S2.047**, the following pollutants in excess of the following specified limits when operating (Adapted from 40 CFR Part 63.1219(a)):

Dioxin and Furans:	0.40 nanogram (ng) Toxicity Equivalence (TEQ)/dry standard cubic meter (dscm) corrected to 7% oxygen.
Mercury (Hg):	130 micrograms/dry standard cubic meter (µg/dscm) corrected to 7% oxygen.
Lead (Pb) and Cadmium (Cd):	230 micrograms/dry standard cubic meter (µg/dscm) combined emissions, corrected to 7% oxygen.
Arsenic (As), Beryllium (Be), and Chromium (Cr):	92 micrograms/dry standard cubic meter (µg/dscm) combined, corrected to 7% oxygen.
Hydrogen chloride (HCl) and: Chlorine gas	32 parts per million by volume (ppmv), expressed as the sum of and Chlorine (Cl_2) Gas: Hydrochloric Acid (HCl) equivalents, dry basis, corrected to 7% oxygen.
Particulate Matter (PM):	0.013 grains per dry standard cubic foot (gr/dscf) 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)

AD. Emission Units S2.046 and S2.047 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *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 in order to establish a feed rate for the ordnance item to be treated. The established feed rate for each ordnance item to be treated will be stored in a data base on the RF-9 control computer identified by a national stock number (NSN).
      (2) Feed Rate calculations are 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 are limited to those amounts that have been demonstrated to meet the emission limits in AD.2 of this section through testing. Maximum pollutant feed rates have been established during the Compliance Performance Test conducted in February 2008 and documented in the Compliance Performance Test report. The weight of the pollutant in each item is determined using the MIDAS database.
      (3) Permittee will input the ordnance national stock (NSN) into the RF-9 control computer which will set the established feed limits (recipe) in the Feed Rate Control System (FRCS). The RF-9 FRCS will assure this feed rate is not exceeded by monitoring the cycle time and weight of each load dumped into the furnace. If the maximum pound per hour rate is exceeded, the belt will automatically shut down.
      (4) Permittee will notify NBAPC of any munition items processed by MDRK emitting any pollutants currently not identified in the MIDAS 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 63.1219(c))
      (1) Except as provided under 40 CFR Part 63.1219(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 63.1219(c)(3). The DRE has been established during the Comprehensive Performance Test conducted in February 2008.
      (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 63.1219(c)(2). Permittee must demonstrate this DRE performance on POHCs that are more difficult to incinerate than tetro-, 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 have been established during the Comprehensive Performance Test conducted in February 2008. 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 63.1219(c)(3)(ii), POHCs presents in the RF-9 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 3.b.(1) and (2) of this section.
         (b) Permittee must treat the POHCs in the waste feed that it specifies under 40 CFR Part 63.1219(c)(3)(ii) to the extent required by 40 CFR Part 63.1219(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)

AD. Emission Units S2.046 and S2.047 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (q))

Emissions from **S2.046 and S2.047** shall be ducted to the following emissions control system with 100% capture and a maximum volume flow rate of 6,000 actual cubic feet per minute (ACFM):

(1) Primary Combustion Chamber
(2) Evaporative Cooler
(3) Calcium Hydroxide ($Ca(OH)_2$) Lime Adsorption
(4) Baghouse

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 the Primary Combustion Chamber*:
   (a) The minimum temperature of the primary combustion chamber is **1646 ^{0}F** (based on the Comprehensive Performance Test conducted in February 2008). During operations, the temperature of the primary combustion chamber shall be monitored with a temperature monitoring device with a temperature recorder that must record the operating temperature at least every 60 seconds, as required in the definition of continuous monitor. The temperature monitoring device equipped with a recorder shall be installed, calibrated, operated, and maintained according to manufacture specifications.
   (b) The maximum combustion chamber pressure of the primary combustion chamber is **minus 0.1 inches of water gauge**, (based on the Comprehensive Performance Test conducted in February 2008). During operations, the primary combustion chamber pressure shall be monitored with a pressure monitoring device with a recorder that must record the operating pressure instantaneously. The pressure monitoring device equipped with a recorder shall be installed, calibrated, operated, and maintained according to manufacture specifications.
   (c) During operations, Permittee must 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 the automatic waste feed cutoff system must be engaged when negative pressure is not maintained at any time.

(2) *For the Calcium Hydroxide ($Ca(OH)_2$) Lime Adsorption*:
   (a) The minimum lime sorbent feed rate is based on the Comprehensive Performance Test conducted in February 2008. The minimum lime sorbent feedrate is determined from the total chlorine/chloride content of the item to be processed. The total chlorine/chloride content of each processed round is determined from the MIDAS data. The minimum lime sorbent feedrate is tiered and is based on the chlorine/chloride content of each processed round multiplied by the item feedrate for the item being processed, not to exceed **72 lbs/hr sorbent lime** and **3 lbs/hr total chlorine/chloride** feedrate. The lime sorbent feedrate will be 0.0 lbs/hr when the total chlorine/chloride content is 0.0 lbs/hr. The lime sorbent feedrate will be 24.0 lbs/hr when the total chlorine/chloride content is greater than 0.0 lbs/hr and up to 1.0 lbs/hr. The lime sorbent feedrate will be 48.0 lbs/hr when the total chlorine/chloride content is greater than 1.0 lbs/hr and up to 2.0 lbs/hr. The lime sorbent feedrate will be 72.0 lbs/hr when the total chlorine/chloride content is greater than 2.0 lbs/hr and up to 3.0 lbs/hr.
   (b) Compliance with the lime sorbent feedrate and total chloride/chlorine feedrate is demonstrated by showing compliance with the dry refuse containing PEP feed limit (as permitted in AD.3.e in this section), which is recorded in the Data Acquisition System (DAS). The calculated feedrates for the lime sorbent and total chlorine/chloride (from MIDAS data) are loaded into a recipe and monitored by the Waste Feed Monitoring System to insure the feed limit is never exceeded. If the load is greater than the recipe limit, the waste feed monitor will not feed items until the load is reduced below the recipe limit.
   (c) Permittee may substitute at any time a different brand or type of sorbent provided that the replacement has equivalent or improved properties compared to the sorbent used in the Comprehensive Performance Test and conforms to the key sorbent parameters Permittee identified under paragraph 40 CFR Part 63.1209(o)(4)(iii)(A) of this section. Permittee must record in the operating record documentation that the substitute sorbent will provide the same level of control as the original sorbent.

(3) *For the Baghouse*:
   (a) The minimum pressure drop and maximum pressure drop across each baghouse cell based on manufacturer's specifications shall be **3 inches and 7 inches of water gauge**, respectively, and shall comply with the limit on an hourly rolling average.
   (b) The maximum temperature at the inlet to the Baghouse is **400 ^{0}F**.
   (c) Measure and record values for the pressure drops and inlet temperatures using a recording device with a continuous monitor.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Control Device and Monitoring Device Operating Parameter Limits (OPLs) (Adapted from 40 CFR Part 63.1209(a) through (q)) (continued)
      (4) *Destruction and Removal Efficiency (DRE).* To remain in compliance with the destruction and removal efficiency (DRE) standard, Permittee must maintain operating limits obtained during the Comprehensive Performance Test conducted in February 2008 (or during a previous DRE test under provisions of 40 CFR Part 63.1206(b)(7)) for the following parameters (as listed in 40 CFR Part 63.1209(j)), and comply with those limits at all times that hazardous waste remains in the combustion chamber:
         (a) The minimum temperature of the primary combustion chamber is **1646 ^{0}F** (as referenced in AD.3.c(1)(a) of this section).
         (b) The maximum flue gas flow rate at the exhaust stack is **6,000 acfm** (based on the Comprehensive Performance Test conducted in February 2008 and Permittee proposed limit of **51 ft/sec** flow velocity).
         (c) The maximum production rate of dry refuse is **2.5 tons/hr** (as referenced in AD.3.e of this section).
         (d) The maximum hazardous waste feedrate of PEP is **240** pounds/hour (based on the Comprehensive Performance Test conducted in February 2008, and as limited in AD.3.f in this section) on an hourly rolling average basis.
         (e) Measure and record values for the listed parameters using recording devices with a continuous monitor.
      (5) *Analysis of feedstreams*. Prior to feeding material, Permittee must obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate 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.
      (6) *Compliance with feedrate limits.* To comply with the applicable feedrate limits of this section, Permittee must monitor and record feedrates 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 flowrate of each feedstream by a CMS. If Permittee determines flowrate of a feedstream by volume, Permittee must determine and record the density of the feedstream by sampling and analysis (unless Permittee report the constituent concentration in units of weight per unit volume (e.g., mg/l)); and
         (c) Calculate and record the mass feedrate of the parameter per unit time.
      (7) *Waiver of monitoring of constituents in certain feedstreams.* Permittee is not required to monitor levels of metals or chlorine in the following feedstreams to document compliance with the feedrate 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 feedrate levels in documenting compliance with feedrate limits: process air, and feedstreams from vapor recovery systems.
      (8) *When an operating parameter is applicable to multiple standards.* 40 CFR Part 63.1209(j) through (p) require Permittee to establish limits on operating parameters based on comprehensive performance testing to ensure Permittee will maintain 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 40 CFR Part 63.1209(j) and the dioxin/furan standard of 40 CFR Part 63.1209(k). If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies.
      (9) *Dioxins and furans.* Permittee must comply with the dioxin and furans emission standard by establishing and complying with 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).
      (10) *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.
      (11) *Particulate matter.* Permittee must comply with the particulate matter emission standard by establishing and complying with the operating parameter limits listed in 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.
      (12) *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 parameter 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.
      (13) *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.
      (14) *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 Permittee changes a mode of operation and begins complying with the operating 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.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   d. **S2.046 and S2.047** may only combust #2 distillate fuel.
   e. The maximum **dry refuse** throughput rate for **S2.046** will not exceed **2.5 tons (5,000 pounds)** per hour, nor more than **11,650 tons** per 12-month rolling period.
   f. The maximum **propellant-explosives-pyrotechnics (PEP)** throughput rate for **S2.046** will not exceed **0.12 tons** (**240 pounds**) per hour, nor more than **559.2 tons** per 12-month rolling period, based on Compliance Performance Test conducted in February 2008.
   g. The maximum #2 distillate fuel consumption rate for **S2.046** will not exceed **29.5 gallons** per hour.
   h. The maximum #2 distillate fuel consumption rate for **S2.047** will not exceed **58.6 gallons** per hour.
   i. The maximum **sulfur** content of the #2 distillate fuel will not exceed **0.05 weight percent sulfur**.
   j. The maximum individual operating heat input for **S2.046** will not exceed **4.13 MMBtu** per hour.
   k. The maximum individual operating heat input for **S2.047** will not exceed **8.20 MMBtu** per hour.
   l. The maximum feedrate of ash (particulate matter) for **S2.046 and S2.047** will not exceed **51.65** pounds per hour, based on Compliance Performance Test conducted in February 2008.
   m. The maximum feedrate of semi-volatile metals (lead and cadmium) for **S2.046 and S2.047** will not exceed **6.53** pounds per hour, based on Compliance Performance Test conducted in February 2008.
   n. The maximum feedrate of low-volatile metals (arsenic, beryllium, chromium) for **S2.046 and S2.047** will not exceed **0.115** pounds per hour, based on Compliance Performance Test conducted in February 2008.
   o. The maximum feedrate of total mercury for **S2.046 and S2.047** will not exceed **0.00069** pounds per hour, based on Compliance Performance Test conducted in February 2008.

   p. Hours
   S2.046 and S2.047 each, may operate **24** hours per day, but will not operate in excess of **4,660** hours per 12-month rolling period.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Control Device and Monitoring Device Requirements (Adapted from 40 CFR Part 63.1209(a) through (q))
      (1) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS):*
         (a) Permittee will install, calibrate, maintain, and operate in accordance with NAC 445B.257 through NAC 445B.265 a continuous emissions monitoring system (CEMS) (consisting of a CO pollutant concentration monitor and an O_2 diluent gas analyzer) with a continuous data collection system (CDCS) for measuring and recording CO concentration on a dry basis (in ppm) and O_2 concentration (in percent) on a dry basis, and a continuous exhaust flow meter for determination of the mass emissions of CO (in pounds/hour) from the **common exhaust stack for S2.046 and S2.047**. The in-stack CO pollutant concentration monitor and flow sampling devices will be installed at appropriate locations in the **common exhaust stack for S2.046 and S2.047** to accurately and continuously measure the CO concentrations and volumetric flow rate on a dry basis. The CO CEMS will be used to demonstrate and monitor compliance with the CO and hydrocarbon standards under 40 CFR Part 63.1209. The O_2 diluent gas analyzer will be used to continuously correct the carbon monoxide level to 7 percent oxygen. The CDCS shall be operated and data recorded during all periods of operation, including startup, shutdown, malfunction or emergency conditions of **S2.046 and S2.047** except for continuous monitoring system maintenance, breakdowns, repairs, calibration checks, and zero and span adjustments. Data is recorded during calibration checks, and zero and span adjustments.
         (b) Permittee must install, calibrate, maintain, and operate a particulate matter (PM) CEMS to demonstrate and monitor compliance with the particulate matter standards under this 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.
         (c) Permittee must install, calibrate, maintain, and continuously operate the CEMS and CDCS in compliance with the quality assurance procedures provided in the appendix to Subpart EEE and Performance Specification 4B (carbon monoxide and oxygen), pursuant to 40 CFR Part 60, Appendix B (or other appropriate EPA performance specifications contained in 40 CFR Part 60, Appendix B) and the Quality Assurance Procedures pursuant to 40 CFR Part 60, Appendix F.
         (d) The exhaust flow monitoring device will be installed in the **common exhaust stack for S2.046 and S2.047** such that the representative measurements of exhaust flow from **S2.046 and S2.047** are obtained and calculated to dry standard cubic feet per hour (dscfh). The performance of the exhaust flow sampling device and the accuracy of the exhaust flow calculation (in dscfh) **will be demonstrated during the RATAs** as required in AD.4.a(1)(j) of this section. The demonstration shall be comprised of a series of **nine 30-minute test runs**. The average sum of the inlet flows during each test run must total at least 100 percent, but not more than 110 percent, of the average exhaust flow measured during each test run. The annual flow monitoring demonstration must be undertaken in accordance with the notification, protocol approval, and reporting requirements of NAC 445B.252 and NAC 445B.259.
         (e) The CEMS and CDCS will complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. Hourly averages shall be computed using at least one data point in each 15-minute quadrant of an hour. Hourly averages shall be computed from four or more equally spaced data points within the hour. (NAC 445B.263, NAC 445B.264).
         (f) In accordance with NAC 445B.261, check the zero (or low level value between zero and 20 percent of the span value) and span (50 to 100 percent of the span value) calibration drifts at least once daily. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications as identified in 40 CFR Part 60, Appendix B. The system must allow the amount of excess zero and span drift measurements at the 24-hour interval checks to be recorded and quantified, whenever specified.
         (g) For extractive continuous monitoring systems measuring gases, minimum procedures must include introducing applicable zero and span gas mixtures into the measurement system as near the probe as is practical. Span and zero gases certified by their manufacturer to be traceable to National Institute of Standards and Technology reference gases must be used whenever these reference gases are available. The span and zero gas mixtures must be the same composition as specified in Appendix B of 40 CFR Part 60. Every 6 months after the date of manufacture, span and zero gases must be reanalyzed by conducting triplicate analyses with Reference Method 10 for CO, and Reference Method 3 for O_2. The gases may be analyzed at less frequent intervals if longer shelf lives are guaranteed by the manufacturer (NAC 445B.262.1(a)).
         (h) Based on the measured CO concentration (ppm, based on a dry basis) and hourly exhaust gas flow rate (dscfh), calculate the hourly CO emission rate, in pounds per hour, utilizing the CEMS, CDCS, and exhaust flow meter data collected. The emission rate will determine compliance with the CO emission limits established in AD.2.a of this section. The measured CO concentration (ppm, based on a dry basis) will determine compliance with the CO emission standard established in AD.2.b of this section.
         (i) Permittee shall conduct quarterly audits as required by 40 CFR Part 60, Appendix F, Procedure 1, section 5.
         (j) Permittee shall conduct and record the Relative Accuracy Test Audits (RATAs) required to certify the performance of the CEMS described in AD.4.a(1)(a) of this section. Annual RATAs must be conducted once every four-consecutive operating quarters. The RATAs must be done as prescribed in 40 CFR Part 60, Appendix F, and in accordance with the notification, protocol approval, and reporting requirements of NAC 445B.252 Testing and Sampling, and NAC 445B.259 Monitoring systems: Performance evaluations.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   a. Control Device and Monitoring Device Requirements (Adapted from 40 CFR Part 63.1209(a) through (q)) (continued)
      (1) *Continuous Emissions Monitoring Systems (CEMS) and Continuous Opacity Monitoring Systems (COMS) (continued):*
         (k) Permittee must install, calibrate, maintain, and continuously operate the COMS in accordance with the requirements of 40 CFR Part 63.8(c) except for the requirements under 40 CFR Part 63.8(c)(3). The requirements of 40 CFR Part 63.1211(c) shall be complied with instead of 40 CFR Part 63.8(c)(3). Permittee must calibrate, maintain, and continuously operate the COMS in compliance with the quality assurance procedures provided in the appendix to Subpart EEE and Performance Specifications 1 (opacity), pursuant to 40 CFR Part 60, Appendix B. Upon malfunction of the COMS, Permittee shall give notice to the director within 24 hours. Permittee shall perform visual emission estimates using Reference Method 9 in Appendix A of 40 CFR Part 60. The Reference Method 9 evaluations shall be conducted at least twice daily, once during mid-morning and once during mid-afternoon. The minimum total time of observations for each visual emission estimate shall be six minutes (24 consecutive observations recorded at 15-second intervals).
         (l) 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.
         (m) *Operating Parameter Limits for Hydrocarbons*. When utilizing a CO CEMS to show compliance with the CO and the hydrocarbon emission standard, Permittee must demonstrate that hydrocarbon emissions during the comprehensive performance test do not exceed the hydrocarbon emissions standard. In addition, the limits established by the Permittee on the destruction and removal efficiency (DRE) operating parameters required under paragraph 40 CFR Part 63.1209(j) of this section also ensures that the Permittee maintain compliance with the hydrocarbon emission standard. If Permittee does not conduct the hydrocarbon demonstration and DRE tests concurrently, Permittee must establish separate operating parameter limits under paragraph 40 CFR Part 63.1209(j) of this section based on each test and the more restrictive of the operating parameter limits applies.
      (2) *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.
         (a) Except as specified in paragraphs 40 CFR Part 63.1209(b)(2)(i) and (ii) of this section, Permittee must install and operate continuous monitoring systems other than CEMS in conformance with 40 CFR Part 63.8(c)(3) that requires Permittee, 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 feed cutoff system required by 40 CFR Part 63.1206(c)(3).
      (3) *Performance evaluations.* The requirements of 40 CFR Part 63.8(d) (Quality control program) and (e) (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.
      (4) *Conduct of Monitoring.* The provisions of 40 CFR Part 63.8(b) apply.
      (5) *Operation and maintenance of continuous monitoring systems.* The provisions of 40 CFR Part 63.8(c) apply except:
         (a) The requirements of 40 CFR Part 63.1211(c), that requires CMSs to be installed, calibrated, and operational on the compliance date, shall be complied with instead of section 40 CFR Part 63.8(c)(3);
         (b) The performance specifications for carbon monoxide, hydrocarbon, and oxygen CEMSs 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 section 40 CFR Part 63.8(c)(4)(ii).
      (6) *Alternative monitoring requirements other than continuous emissions monitoring systems (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, Permittee must use paragraph 40 CFR Part 63.1209(a)(5) of this section and 40 CFR Part 63.8(f). The Administrator will not approve averaging periods for operating parameter 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 Permittee 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 that operating parameter limit nor an alternative operating parameter limit is needed to ensure compliance with the emission standards 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).
      (7) *Reduction of monitoring data.* The provisions of 40 CFR Part 63.8(g) apply.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   a. Control Device and Monitoring Device Requirements (Adapted from 40 CFR Part 63.1209(a) through (q)) (continued)
      (8) *Calculation of rolling averages*
         (a) *Calculation of rolling averages initially.* Continuous Monitoring Systems must begin recording one-minute average values by 12:01 a.m. and hourly rolling average values by 1:01 a.m., when 60 one-minute values will be available for calculating the initial hourly rolling average for those sources that come into compliance on the regulatory compliance date. Sources that elect to come into compliance before the regulatory compliance date must begin recording one-minute and hourly rolling average values within 60 seconds and 60 minutes (when 60 one-minute values will be available for calculating the initial hourly rolling average), respectively, from the time at which compliance begins.
         (b) *Calculation of rolling averages upon intermittent operations.* Permittee must ignore periods of time when one-minute values are not available for calculating the hourly rolling average. When one-minute values become available again, the first one-minute value is added to the previous 59 values to calculate the hourly rolling average.
         (c) *Calculation of rolling averages when the hazardous waste feed is cutoff.* Except as provided by paragraph 40 CFR Part 63.1209(a)(6)(iii)(B), Permittee must continue monitoring CO and hydrocarbons when the hazardous waste feed is cutoff if the source is operating. Permittee must not resume feeding hazardous waste if the emission levels exceed the standard.
         (d) Permittee is not subject to the CEMS requirements of 40 CFR Part 63.1209 during periods of time Permittee meets the requirements of 40 CFR 63.1206(b)(1)(ii).

   b. NOx (Nitrogen Oxides) Continuous Emissions Monitoring (NAC 445B.308.7)
      (1) Permittee will install, calibrate, maintain, and operate in accordance with NAC 445B.257 through NAC 445B.265 a continuous emissions monitoring system (CEMS) (consisting of a NOx pollutant concentration monitor and an O_2 diluent gas analyzer) with a continuous data collection system (CDCS) for measuring and recording NOx concentration on a dry basis (in ppm) and O_2 concentration (in percent) on a dry basis, and a continuous exhaust flow meter for determination of the mass emissions of NOx (in pounds/hour) from the **common exhaust stack for S2.046 and S2.047**. The in-stack NOx pollutant concentration monitor and flow sampling devices will be installed at appropriate locations in the **common exhaust stack for S2.046 and S2.047** to accurately and continuously measure the NOx concentrations and volumetric flow rate on a dry basis. The oxygen diluent gas analyzer will be used to continuously correct the NOx level to 7 percent oxygen. The CDCS shall be operated and data recorded during all periods of operation, including startup, shutdown, malfunction or emergency conditions of **S2.046 and S2.047** except for continuous monitoring system maintenance, breakdowns, repairs, calibration checks, and zero and span adjustments. Data is recorded during calibration checks, and zero and span adjustments.
      (2) Permittee must install, calibrate, maintain, and continuously operate the CEMS and CDCS in compliance with the quality assurance procedures provided in the appendix to Subpart EEE and Performance Specification 2 (nitrogen oxides) and Specification 3 (oxygen), pursuant to 40 CFR Part 60, Appendix B (or other appropriate EPA performance specifications contained in 40 CFR Part 60, Appendix B) and the Quality Assurance Procedures pursuant to 40 CFR Part 60, Appendix F.
      (3) The exhaust flow monitoring device will be installed in the **common exhaust stack for S2.046 and S2.047** such that the representative measurements of exhaust flow from **S2.046 and S2.047** are obtained and calculated to dry standard cubic feet per hour (dscfh). The performance of the exhaust flow sampling device and the accuracy of the exhaust flow calculation (in dscfh) will be demonstrated during the RATAs as required in AD.4.b(9) of this section. The demonstration shall be comprised of a series of nine 30-minute test runs. The average sum of the inlet flows during each test run must total at least 100 percent, but not more than 110 percent, of the average exhaust flow measured during each test run. The annual flow monitoring demonstration must be undertaken in accordance with the notification, protocol approval, and reporting requirements of NAC 445B.252 and NAC 445B.259.
      (4) The CEMS and CDCS will complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. Hourly averages shall be computed using at least one data point in each 15-minute quadrant of an hour. Hourly averages shall be computed from four or more equally spaced data points within the hour. (NAC 445B.263, NAC 445B.264).
      (5) In accordance with NAC 445B.261, check the zero (or low level value between zero and 20 percent of the span value) and span (50 to 100 percent of the span value) calibration drifts at least once daily. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications as identified in 40 CFR Part 60, Appendix B. The system must allow the amount of excess zero and span drift measurements at the 24-hour interval checks to be recorded and quantified, whenever specified.
      (6) For extractive continuous monitoring systems measuring gases, minimum procedures must include introducing applicable zero and span gas mixtures into the measurement system as near the probe as is practical. Span and zero gases certified by their manufacturer to be traceable to National Institute of Standards and Technology reference gases must be used whenever these reference gases are available. The span and zero gas mixtures must be the same composition as specified in Appendix B of 40 CFR Part 60. Every 6 months after the date of manufacture, span and zero gases must be reanalyzed by conducting triplicate analyses with Reference Method 7 for NOx and Reference Method 3 for O_2. The gases may be analyzed at less frequent intervals if longer shelf lives are guaranteed by the manufacturer (NAC 445B.262.1(a)).
      (7) Based on the measured NOx concentration (ppm, based on a dry basis) and hourly exhaust gas flow rate (dscfh), calculate the hourly NOx emission rate, in pounds per hour, utilizing the CEMS, CDCS, and exhaust flow meter data collected. The emission rate will determine compliance with the NOx emission limits established in AD.2.a of this section.
      (8) Permittee shall conduct quarterly audits as required by 40 CFR Part 60, Appendix F, Procedure 1, section 5.
      (9) Permittee shall conduct and record the Relative Accuracy Test Audits (RATAs) required to certify the performance of the CEMS described in AD.4.b(1) of this section. Annual RATAs must be conducted once every four-consecutive operating quarters. The RATAs must be done as prescribed in 40 CFR Part 60, Appendix F, and in accordance with the notification, protocol approval, and reporting requirements of NAC 445B.252 Testing and Sampling, and NAC 445B.259 Monitoring systems: Performance evaluations.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Permittee, upon the issuance date of this permit, will monitor and record the following parameters when **S2.046 and S2.047** is operated:
      (1) Operate, calibrate, and maintain a fuel flow meter to continuously monitor the amount of #2 distillate fuel combusted in **S2.046 and S2.047**.
      (2) Monitor and record the hours of operation of **S2.046 and S2.047** on a daily basis when operated.
      (3) Monitor and record the #2 distillate fuel combusted, as measured by the fuel flow meter, on a daily basis.
      (4) Monitor the sulfur content of the #2 distillate fuel combusted in **S2.002.**
      (5) Monitor and record each batch or charge weight rate of dry refuse containing PEP processed on a daily basis in tons.
      (6) Monitor and record each batch or charge weight rate of PEP processed on a daily basis in tons.
      (7) Characterize the feedstream processed in **S2.046** on a daily basis based on the MIDAS database.
      (8) Monitor and record the feedrates processed in **S2.046 and S2.047** of ash, semi-volatile metals (lead and cadmium), low-volatile metals (arsenic, beryllium, chromium) and mercury on a daily basis in pounds based on the characterization of the feedstream processed.
      (9) Monitor and record the temperature (in ^{0}F) of the primary combustion chamber for **S2.047** at least once every 60 seconds.
      (10) Continuously monitor and record the combustion chamber pressure (in inches of water) for **S2.047**.
      (11) Monitor and record the pressure drop (in inches of water) across the baghouse on an hourly rolling average.
      (12) Continuously monitor and record the inlet temperature (in ^{0}F) of the baghouse on an hourly rolling average.
      (13) Show compliance with the destruction and removal efficiency (DRE) standard listed in AD.3.b of this section by:
         (a) Monitoring and recording the temperature (in ^{0}F) of the primary combustion chamber for **S2.047** at least once every 60 seconds, as required in AD.4.c(9) of this section.
         (b) Monitoring and recording the flue gas flow rate (in acfm) of the exhaust stack on an hourly rolling average.
         (c) Monitoring and recording the batch or charge weight rate of dry refuse containing PEP processed and the batch or charge weight rate of PEP processed on a daily basis in tons, as required in AD.4.c(5) and AD.4.c(6).
      (14) Continuous Emissions Monitoring
         (a) Monitor and record the hourly average mass emissions of CO and NOx, in ppm (dry basis), using the data collected from the continuous monitoring systems required under AD.4.a(1) and AD.4.b, respectively, of this section.
         (b) Monitor and record the hourly average O_2 concentration (in percent), using the data collected from the continuous monitoring systems required under AD.4.a(1) and AD.4.b, respectively, of this section.
         (c) Monitor and record the hourly average exhaust gas flow rate in dscfh, as required under AD.4.a(1) and AD.4.b of this section.
         (d) Monitor and record any modifications made to the CEMS which could affect the ability of the CEMS systems to comply with the appropriate performance specifications in 40 CFR Part 60, Appendix B.
      (15) Monitor and record the output of the Continuous Opacity Monitoring System (COMS).
      (16) The required monitoring and recordkeeping established in (1) through (15) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping when **S2.046 and S2.047** is operated:
         (a) The calendar date of any required monitoring.
         (b) The total daily hours of operation.
         (c) The total daily fuel consumption value determined from the fuel flow meter for the corresponding date.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (b) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to demonstrate compliance with AD.3.p of this section.
         (e) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the #2 distillate fuel complies with the sulfur limit as specified in AD.3.i of this section for each #2 distillate fuel delivery.
         (f) The type of feedstream processed as characterized by the MIDAS database for the corresponding date.
         (g) Each batch or charge weight rate as fed to **S2.046 and S2.047** for each batch or charge processed for the corresponding date.
         (h) The corresponding average hourly dry refuse containing PEP rate in tons per hour. The average hourly dry refuse containing PEP rate will be determined from the total daily dry refuse containing PEP rate and the total daily hours of operation recorded in (b) and (g) above. The dry refuse containing PEP hourly rate of operation shall be used to demonstrate compliance with AD.3.e of this section. Compliance with AD.3.e will demonstrate compliance with the lime sorbent feedrate and total chlorine/chloride feedrate as detailed in AD.3.c(2) of this section.
         (i) The corresponding average hourly PEP rate in tons per hour. The average hourly PEP rate will be determined from the total daily PEP rate and the total daily hours of operation recorded in (b) and (g) above and the MIDAS database. The PEP hourly rate of operation shall be used to demonstrate compliance with AD.3.f of this section.
         (j) The corresponding average hourly rate of ash, semi-volatile metals (lead and cadmium), low-volatile metals (arsenic, beryllium, chromium) and mercury in pounds per hour. The average hourly rates of ash, semi-volatile metals (lead and cadmium), low-volatile metals (arsenic, beryllium, chromium) and mercury will be determined from the total daily rates of dry refuse containing PEP and the total daily hours of operation recorded in (b) and (g) above and the MIDAS database. The ash, semi-volatile metals (lead and cadmium), low-volatile metals (arsenic, beryllium, chromium) and mercury hourly rates of operation shall be used to demonstrate compliance with AD.3.l, AD.3.m, AD.3.n, and AD.3.o of this section.
         (k) The temperature (in ^{0}F) of the primary combustion chamber for **S2.047,** recorded at least once every 60 seconds, to demonstrate compliance with the temperature limit established in AD.3.c(1)(a) of this section.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   c. Permittee, upon the issuance date of this permit, will (continued):
      (16) The required monitoring and recordkeeping established in (1) through (15) above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping (continued):
         (l) The primary combustion chamber pressure (in inches of water) for **S2.047,** recorded continuously, to demonstrate compliance with the pressure limit established in AD.3.c(1)(b) of this section.
         (m) The pressure drop across the baghouse (in inches of water)**,** recorded on an hourly rolling average, to demonstrate compliance with the pressure drop limit established in AD.3.c(3)(a) of this section.
         (n) The inlet temperature (in ^{0}F) of the baghouse, recorded on an hourly rolling average, to demonstrate compliance with the pressure drop limit established in AD.3.c(3)(b) of this section.
         (o) Destruction and Removal Efficiency (DRE) standard, to demonstrate compliance with AD.3.c(4) of this section.
            (i) The temperature (in ^{0}F) of the primary combustion chamber for **S2.047**, as recorded in AD.4.c(16)(k) of this section.
            (ii) The flue gas flow rate (in acfm), recorded on an hourly rolling average.
            (iii) The batch or charge weight rate of dry refuse containing PEP processed and the batch or charge weight rate of PEP processed, as recorded in AD.4.c(16)(h) and AD.4.c(16)(i) of this section.
         (p) Continuous Emissions Monitoring
            (i) The hourly average exhaust gas flow rate in dscfh.
            (ii) The hourly average CO and NOx concentration (in ppm dry basis).
            (iii) The hourly average O_2 concentration (in percent).
            (iv) The hourly average mass emissions of CO and NOx, in terms of pounds per hour, using the data collected from the continuous monitoring systems required under AD.4.a(1) and AD.4.b of this section. At the end of each calendar month, calculate and record the total monthly CO and NOx emissions and the total CO and NOx emissions for the previous 12 months. The first hourly average will be calculated by taking the average of the first three hours of data. Subsequent averages will drop off the oldest hour of data and add the newest hour's data to maintain a continuous hourly average based on the most recent three hours of data. Excess emissions for CO and NOx shall be defined as any 3-hour period during which the average emissions of CO and NOx as measured by the CEMs devices or a compliance test, exceed the maximum emission limits set forth in AD.2.a of this section.
            (v) The dates and times for any CEMS malfunctions and any actions taken.
            (vi) A description of any modifications made to the CEMS.
            (vii) Maintain files of all measurements related to the CEMS, including calibration checks, quarterly CEMS audits, RATAs, and other quality assurance measurements.
         (q) The measured opacity (in percent opacity) from the COMS, as required in AD.4.a(1) of this section, to demonstrate compliance with opacity limit in AD.2.a of this section.
         (r) Observations made and any corrective actions taken on **S2.046 and S2.047** for operation and maintenance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   d. Performance/Compliance Testing
      (1) Permittee shall conduct and record the Relative Accuracy Test Audits (RATAs) required to certify the performance of the CEMS described in AD.4.a(1)(a) and AD.4.b(1) of this section. Annual RATAs must be conducted once every four-consecutive operating quarters. The RATAs must be done as prescribed in 40 CFR Part 60, Appendix F, and in accordance with the notification, protocol approval, and reporting requirements of NAC 445B.252 Testing and Sampling, and NAC 445B.259 Monitoring systems: Performance evaluations.
      (2) The performance of the exhaust flow sampling device and the accuracy of the exhaust flow calculation (in dscfh) will be demonstrated during the RATAs as required in AD.4.d(1) of this section. The demonstration shall be comprised of a series of nine 30-minute test runs. The average sum of the inlet flows during each test run must total at least 100 percent, but not more than 110 percent, of the average exhaust flow measured during each test run. The annual flow monitoring demonstration must be undertaken in accordance with the notification, protocol approval, and reporting requirements of NAC 445B.252 and NAC 445B.259.

   e. Performance/Compliance Testing
      Within 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 tests on the common exhaust stack of **S2.046 and S2.047**:
      (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 PM_{10} concentration (or an alternative EPA reference method approved by the director for PM_{10}).
      (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 PM_{10} emissions for determination of compliance with the emission limitations established in AD.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 AD.2.a 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) The CEMS required in AD.4.a and AD.4.b of this section shall be operating concurrently with the performance tests required in this section. Results of the CEMS monitoring during the individual performance tests conducted in this section shall be submitted with the report as required in Section I.L.8 of this operating permit.
      (11) Performance tests required under this section that are conducted below the maximum allowable throughput, as established in AD.3.e through AD.3.h 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.
      (12) The performance tests will be conducted with munitions from stability Class 1 as determined from the Thermal Stability Index (TSI) ranking. *The Permittee* shall make available to the director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard (NAC 445B.252.3).
      (13) The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).
      (14) Within 60 days after completing the performance tests and contained in AD.4.e of this section, *the Permittee* shall furnish the director a written report of the results of the performance tests and the resultant emissions factors. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3689 (NAC 445B.252.8).

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   f. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (m))
      (1) Permittee must conduct Comprehensive Performance Tests once every fifth year after the initial Comprehensive Performance Tests to demonstrate compliance with the emission standards provided by 40 CFR Part 63.1219(a), establish limits for the operating parameters provided by 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 the source operates under normal operating conditions; and
         (b) Conduct a performance evaluation of continuous monitoring systems required for compliance assurance with the dioxin/furan emission standard under 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 that previous emissions test data serve as documentation of conformance with the emission standards.
      (5) *Frequency of testing.* Permittee must conduct testing periodically as prescribed in paragraphs 40 CFR Part 63.1207(d)(1) through 40 CFR Part 63.1207(d)(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(i), 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 Permittee submits data in lieu of the initial performance test, Permittee must commence the subsequent comprehensive performance test within 61 months of commencing the test used to provide the data in lieu of the initial performance test.
         (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 Permittee submits data in lieu of the initial performance test, Permittee must commence the initial confirmatory performance test 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) *Duration of testing.* 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.
      (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 to the Administrator a notification of Permittee's intention to conduct a comprehensive performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation test plan at least one year before the performance test and performance evaluation are scheduled to begin. The Administrator will notify Permittee of approval or intent to deny approval of the site-specific test plan and CMS performance evaluation test plan within 9 months after receipt of the original plan. Permittee must submit to the Administrator a notification of Permittee's 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 a notification of Permittee's intention to conduct a confirmatory performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation test plan at least one year before the performance test is scheduled to begin. The Administrator will notify Permittee of approval or intent to deny approval of the site-specific test plan and CMS performance evaluation test plan within 30 calendar days after receipt of the original test plans.
         (c) After the Administrator has approved the site-specific test plan and CMS performance evaluation test plan, Permittee must make the test plans available to the public for review. Permittee must issue a public notice announcing the approval of the test plans and the location where the test plans are available for review.
      (7) *Content of performance test plan.* The provisions of 40 CFR Part 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 operating conditions representative of the extreme range of normal conditions is consistent with the requirement of 40 CFR Part 63.7(e)(1) to conduct performance testing under representative operating conditions.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   f. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (m)) (continued)
      (9) *Operating conditions during subsequent testing.* Current operating parameter limits established under 40 CFR Part 63.1209 are waived during subsequent comprehensive performance testing. Current operating parameter limits are also waived during pretesting prior to comprehensive performance testing for an aggregate time not to exceed 720 hours of operation (renewable at the discretion of the Administrator) under an approved test plan or if the source records the results of the pretesting. Pretesting is defined as operations when stack emissions testing for dioxin/furan, mercury, semivolatile metals, 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 paragraph 40 CFR Part 63(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 Permittee 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 63.1207(l)(1)(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) of this section; Permittee must conduct a comprehensive performance test under revised operating conditions following the requirements for performance testing of this section; and must submit to the Administrator a Notification of Compliance subsequent to the new comprehensive performance test.
      (13) *Failure of Confirmatory Performance 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 Permittee 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 applicable 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 Permittee 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.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   f. Comprehensive and Confirmatory Performance Test (Adapted from 40 CFR Part 63.1207(a) through (m)) (continued)
      (14) *Waiver of Performance Test* (Adapted from 40 CFR Part 63.1207(m)).
         (a) 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 under 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 (MTEC) determined as specified under 40 CFR Part 63.1207(m)(2) does not exceed the emission standard. Permittee must determine the feedrate of mercury, semivolatile metals, low volatile metals, or total chlorine and chloride from all feedstreams, determine the stack gas flowrate, and calculate a MTEC for each standard assuming all mercury, semivolatile metals, low volatile metals, or total chlorine (organic and inorganic) from all feedstreams is emitted.
         (b) To document compliance with the provisions under 40 CFR Part 63.1207(m)(2), Permittee must monitor and record the feedrate of mercury, semivolatile metals, low volatile metals, and total chlorine and chloride from all feedstreams according to 40 CFR Part 63.1209(c), monitor with a CMS and record in the operating record the gas flowrate (either directly or by monitoring a surrogate parameter that Permittee has correlated to gas flowrate), continuously calculate and record in the operating record the MTEC under the procedures of 40 CFR Part 63.1207(m)(2), and interlock the MTEC calculated in 40 CFR Part 63.1207(m)(2)(iii) to the AWFCO system to stop hazardous waste burning when the MTEC exceeds the emission standard.
         (c) In lieu of the requirement in paragraphs 40 CFR Part 63.1207(m)(3)(iii) and (iv), Permittee may identify in the Notification of Compliance a minimum gas flowrate limit and a maximum feedrate limit of mercury, semivolatile metals, low volatile metals, and/or total chlorine and chloride from all feedstreams that ensures the MTEC as calculated in under 40 CFR Part 63.1207(m)(2)(iii) is below the applicable emission standard; and interlock the minimum gas flowrate limit and maximum feedrate limit under 40 CFR Part 63.1207(m)(4)(i) to the AWFCO system to stop hazardous waste burning when the gas flowrate or mercury, semivolatile metals, low volatile metals, and/or total chlorine and chloride feedrate exceeds the limits under 40 CFR Part 63.1207(m)(4)(i).
         (d) When Permittee determines that the feedrate of mercury, semivolatile metals, low volatile metals, or total chlorine and chloride for purposes of 40 CFR Part 63.1207(m), except as provided under 40 CFR Part 63.1207(m)(6), Permittee must assume that the analyte is present at the full detection limit when the feedstream analysis determines that the analyte is not detected in the feedstream.
         (e) Permittee must state in the site-specific test plan that Permittee submits for review and approval under 40 CFR Part 63.1207(e) that Permittee intends to comply with the provisions of 40 CFR Part 63.1207(m). Permittee must include in the test plan documentation that any surrogate that is proposed for gas flowrate adequately correlates with the gas flowrate.

   g. 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 **S2.046 and S2.047** are operating under normal conditions to determine compliance with the emissions standards:
      (1) *Dioxins and furans.* Permittee must use Method 23A, Sampling Method for Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans emissions from Stationary Sources, EPA Publication SW–846, as incorporated by reference under 40 CFR Part 63.1208(a), to determine compliance with the emission standard for dioxins and furans. Permittee must sample for a minimum of three hours, and Permittee must collect a minimum sample volume of 2.5 dscm. Permittee may assume that nondetects are present at zero concentration.
      (2) *Mercury.* Permittee must use Method 29, provided in 40 CFR Part 60, Appendix A, to demonstrate compliance with emission standard for mercury.
      (3) *Cadmium and lead.* Permittee must use Method 29, provided in 40 CFR Part 60, Appendix A, to determine compliance with the emission standard for cadmium and lead (combined).
      (4) *Arsenic, beryllium, and chromium.* Permittee must use Method 29, provided in 40 CFR Part 60, Appendix A, to determine compliance with the emission standard for arsenic, beryllium, and chromium (combined).
      (5) *Hydrochloric acid and chlorine gas.* Permittee may use Methods 26A, 320, or 321 provided in 40 CFR Part 60, Appendix A, to determine compliance with the emission standard for hydrochloric acid and chlorine gas (combined). Permittee may use Methods 320 or 321 to make major source determinations under 40 CFR Part 63.9(b)(2)(v).
      (6) *Particulate matter.* Permittee must use Methods 5 or 5I, provided in 40 CFR Part 60, Appendix A, to demonstrate compliance with the emission standard for particulate matter.
      (7) *Other Test Methods.* Permittee may use applicable test methods in EPA Publication SW-846, as incorporated by reference under 40 CFR Part 63.1208(a), as necessary to demonstrate compliance with requirements of this subpart, except as otherwise specified under 40 CFR Part 63.1208(b)(2) through (b)(6).
      (8) *Feedstream analytical methods.* Permittee may use any reliable analytical method to determine feedstream concentrations of metals, chlorine, and other constituents. It is the Permittee's responsibility to ensure that the sampling and analysis procedures are unbiased, precise, and that the results are representative of the feedstream. For each feedstream, Permittee must demonstrate that each analyte is not present above the reported level at the 80% upper confidence limit around the mean, and the analysis could have detected the presence of the constituent at or below the reported level at the 80% upper confidence limit around the mean.
      (9) *Opacity.* If Permittee determines compliance with the opacity standard under the monitoring requirements of 40 CFR Part 63.1209(a)(1)(iv) and (a)(1)(v), Permittee must use Method 9, provided in 40 CFR Part 60, Appendix A.

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

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

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   h. Permittee will be subject to the following monitoring requirements (Adapted from 40 CFR Part 63.1209) (continued):

Reference	Requirement
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

   i. Reporting
      (1) Permittee will be required to submit the following reports to NDEP-BAPC:
         (a) Report all excess emissions as required in Sections III.B and III.C of this operating permit.
         (b) Report all deviations as required in Sections V.C and V.F of this operating permit.
         (c) Submit semi-annual monitoring reports as required in Section V.C of this operating permit.
         (d) Certify compliance with all applicable requirements as required in Section V.E of this operating permit.
         (e) All required monitors will be audited on a quarterly basis. The audits will be conducted by an independent third party, acceptable to the Chief of the Bureau of Air Pollution Control. Reports of the audits will be submitted to the Bureau of Air Pollution Control on a quarterly basis.
         (f) In accordance with NAC 445B.265 Monitoring systems: Records; reports, submit a written report of excess emissions to the Director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the information specified under NAC 445B.265.2.(a) through (d).

      (2) Permittee is also subject to the following reporting requirements (Adapted from 40 CFR Part 63.1211):

Reference	Document, Data, or Information	Frequency
63.10(d)(4)	Compliance progress reports	Refer to Section III.B and C
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 malfuction reports	Refer to Section III.B and C
63.10(e)(3)	Excessive emission and continuous monitoring system performance report and summary report	Semiannually
63.1206(c)(2)(ii)(B)	Startup, shutdown, and malfunction plan	Before Operating
63.1206(c)(3)(vi)	Excessive exceedances reports	5 days after 10th exceedance
63.1206(c)(4)(iv)	Emergency safety vent opening reports	5 days after 10th exceedance

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Section VI. Specific Operating Conditions (continued)

AD. Emission Units S2.046 and S2.047 (continued)

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   j. Permittee will be subject to the following recordkeeping requirements (Adapted from 40 CFR Part 63.1211):
   Permittee will be required to submit the following reports to the Administrator:

Reference	Document, Data, or Information	Frequency
63.1200, 63.10(b) and (c)	General. Information required to document and maintain compliance with the regulations of Subpart EEE, including data recorded by continuous monitoring systems (CMS), and copies of all notifications, reports, plans, and other documents submitted to the Administrator.	Refer to Section III.B and C
63.1206(b)(1)(ii)	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 are in compliance with those requirements	When they occur
63.1206(b)(5)(ii)	Documentation that a change will not adversely affect compliance with the emission standards or operating requirements	When they occur
63.1206(b)(11)	Calculation of hazardous waste residence time	Before Operating
63.1206(c)(2)	Startup, shutdown, and malfunction plan	Before Operating
63.1206(c)(2)(v)(A)	Documentation of Permittee's investigation and evaluation of excessive exceedances during malfunctions	45 days after 10th exceedance
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	5 days after 10th exceedance
63.1206(c)(3)(vii)	Documentation and results of the automatic waste feed cutoff operability testing	Weekly
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)(5)(ii)	Method used for control of combustion system leaks	Before Operating
63.1206(c)(6)	Operator training and certification program	When Occurring
63.1206(c)(7)(i)(D)	Operation and maintenance plan	Before Operating
63.1209(c)(2)	Feedstream analysis 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
63.1209(q)	Documentation of changes in modes of operation	When Occurring
63.1211(c)	Documentation of compliance	Within 60 days following completion of the Comprehensive Performance Test

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Section VI. Specific Operating Conditions (continued)

AE. Emission Unit S2.048 Location North 4,270.22 km, East 359.02 km, UTM (Zone 11, NAD 83)

System 31 – Pangborn Blast Booth
S 2.048 Pangborn Blast Booth, mfd by Pangborn, mdl# LK-4, s/n 6LK4-711; Building 103-5

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Emissions from **S2.048** shall be controlled by a baghouse with 100% capture and a maximum volume flow rate of 1,814 dry standard cubic feet per minute (dscfm). 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) *Part 70 Program*
On and after the date of startup of **S2.048**, 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 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.31 pound** per hour, nor more than **0.32 ton** per year, based on a 12-month rolling period. This limit is less than the **2.22 pounds** per hour maximum allowable emission limit for **S2.048** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)* and the maximum allowable throughput as limited in 3.a of this section.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.31 pound** per hour, nor more than **0.32 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from the stack discharge of DC-004 for **S2.048** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable throughput for **S2.048** will not exceed **0.40 ton** of plastic beads per any one-hour period.
   b. Hours
      (1) **S2.048** will not operate in excess of **2,080** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting and Compliance (NAC 445B.3405) (NAC 445B.316) *Federally Enforceable Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.048** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.048** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the hours of operation of **S2.048** on a daily basis when operated.
      (2) Monitor and record that the maintenance and operation of the baghouse is in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (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 daily hours of operation for the corresponding date.
         (c) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.
         (d) Observations made and any corrective actions taken on the baghouse for operation and maintenance in accordance with best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
No shield requested.

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Section VI. Specific Operating Conditions (continued)

AF. Emission Unit S2.049 Location North 4,270.23 km, East 359.04 km, UTM (Zone 11, NAD 83)

System 32 – Surface Coating Booth
S 2.049 Surface Coating Booth; Building 103-5

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Emissions from **S2.049** shall be controlled by a collection system consisting of water curtains with 100% capture.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
On and after the date of startup of **S2.049**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.049** the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.023 pound** per hour, nor more than **0.024 ton** per year, based on a 12-month rolling period. This limit is less than the **0.069 pound** per hour maximum allowable emission limit for **S2.049** as determined from NAC 445B.22033 (*Federally Enforceable SIP Requirement)*.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.045 pound** per hour, nor more than **0.047 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* – The discharge of **VOC** to the atmosphere will not exceed **5.04 tons** per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *Federally Enforceable SIP Requirement* - The opacity from **S2.049** will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Maximum allowable VOC throughput for **S2.049** as contained in paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials, will not exceed **5.04 tons** per year, based on a 12-month rolling total.
   b. Hours
      (1) **S2.049** will not operate in excess of **10** hours per day.
      (2) **S2.049** will not operate in excess of **2,080** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee shall conduct and record a visible emissions test on **S2.049** in accordance with Reference Method 22 in Appendix A of 40 CFR Part 60 on a monthly basis for any month or a portion thereof that **S2.049** is operating. If any emissions are noted, Permittee shall conduct and record a visible emissions test in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60 immediately. Each Method 22 and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while the emission unit is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a Method 22 and Method 9 visible emissions test could not be conducted due to the emissions unit not operating or due to poor weather conditions. The results of the visible emissions tests and any corrective action taken will be recorded in a contemporaneous log.

   b. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the hours of operation of **S2.049** on a daily basis when operated.
      (2) Monitor and record the VOC content of all paints, primers, reducers, catalysts, clean-up solvents, and/or any other VOC containing materials utilized in **S2.049** on a daily basis when operated.
      (3) Monitor and record that the maintenance and operation of the water curtains are in accordance with best management practices and maintenance guidelines, on a daily basis when operated.
      (4) The required monitoring and recordkeeping established in (1) through (3) 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 daily hours of operation for the corresponding date.
         (c) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (b) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.b. of this section.
         (d) 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.
         (e) 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.
         (f) Observations made and any corrective actions taken on the water curtains for operation and maintenance in accordance with best management practices.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
No shield requested.

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Section VI. Specific Operating Conditions (continued)

AG. Emission Unit S2.050 Location North 4,267.80 km, East 354.45 km, UTM (Zone 11, NAD 83)

System 33 – 60 kW Onan Emergency Diesel Generator
S 2.050 60 kW Onan Emergency Diesel Generator (EG-001), s/n B790392949, mfd pre-2000

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.050** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.050**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.050**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.044 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.044 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.084 pound** per hour, nor more than **0.021 ton** per year, based on a 12-month rolling period. This limit is less than the **0.39 pound** per hour maximum allowable emission limit for **S2.050** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.16 pound** per hour, nor more than **0.041 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **2.48 pounds** per hour, nor more than **0.62 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.54 pound** per hour, nor more than **0.13 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.20 pound** per hour, nor more than **0.051 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.050** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel** fuel consumption rate for **S2.050** will not exceed **4.0 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 **S2.050** will not exceed **0.56 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.050** will not operate in excess of **500** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.050** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.050.**
      (4) Monitor and record that the maintenance and operation of **S2.050** is in accordance with best management practices 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.050**.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.e. of this section.
         (e) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (f) Observations made and any corrective actions taken on **S2.050** for operation and maintenance in accordance with best management practices.

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

Section VI. Specific Operating Conditions (continued)

AG. Emission Unit S2.050 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines
   Permittee must comply with the following applicable requirements no later than **May 3, 2013** for **S2.050** (an existing stationary compression ignition reciprocating internal combustion engines (CI RICE) at an area source of HAP emissions) (40CFR63.6595(a)(1):
      (1) Operating Limitations - 40CFR63.6603(a), Table 2d:
         (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
         (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
         (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
      (2) General Requirements – 40 CFR63.6605:
         (a) Permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply at all times.
         (b) Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
      (3) Monitoring, Installation, Collection, Operation, and Maintenance Requirements – 40CFR63.6625(f):
         (a) Permittee must install a non-resettable hour meter if one is not already installed.
      (4) Recordkeeping – 40 CFR63.6655(a) and 40CFR63.6660:
         (a) A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).
         (b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
         (c) Records of all required maintenance performed on the air pollution control and monitoring equipment
         (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
         (e) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
         (f) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
         (g) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AH. Emission Unit S2.051 Location North 4,267.80 km, East 355.98 km, UTM (Zone 11, NAD 83)

System 34 – 17.5 kW Onan Emergency Diesel Generator
S 2.051 17.5 kW Onan Emergency Diesel Generator (EG-002), s/n G750964362, mfd pre-2000

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.051** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.051**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.051**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.051 pound** per hour, nor more than **0.013 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.051 pound** per hour, nor more than **0.013 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.025 pound** per hour, nor more than **0.0061 ton** per year, based on a 12-month rolling period. This limit is less than the **0.11 pound** per hour maximum allowable emission limit for **S2.051** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.048 pound** per hour, nor more than **0.012 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.72 pound** per hour, nor more than **0.18 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.16 pound** per hour, nor more than **0.039 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.059 pound** per hour, nor more than **0.015 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.051** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel** fuel consumption rate for **S2.051** will not exceed **1.2 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 **S2.051** will not exceed **0.16 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.051** will not operate in excess of **500** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.051** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.051.**
      (4) Monitor and record that the maintenance and operation of **S2.051** is in accordance with best management practices 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.051**.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.e. of this section.
         (e) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (f) Observations made and any corrective actions taken on **S2.051** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AH. Emission Unit S2.051 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines
   Permittee must comply with the following applicable requirements no later than **May 3, 2013** for **S2.051** (an existing stationary compression ignition reciprocating internal combustion engines (CI RICE) at an area source of HAP emissions) (40CFR63.6595(a)(1):
   (1) Operating Limitations - 40CFR63.6603(a), Table 2d:
   (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
   (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
   (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   (2) General Requirements – 40 CFR63.6605:
   (a) Permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply at all times.
   (b) Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
   (3) Monitoring, Installation, Collection, Operation, and Maintenance Requirements – 40CFR63.6625(f):
   (a) Permittee must install a non-resettable hour meter if one is not already installed.
   (4) Recordkeeping – 40 CFR63.6655(a) and 40CFR63.6660:
   (a) A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).
   (b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
   (c) Records of all required maintenance performed on the air pollution control and monitoring equipment
   (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
   (e) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
   (f) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
   (g) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AI. Emission Unit S2.052 Location North 4,267.65 km, East 355.90 km, UTM (Zone 11, NAD 83)

System 35 – 80 kW Kohler Emergency Diesel Generator
S 2.052 80 kW Kohler Emergency Diesel Generator (EG-003), s/n 358882, mfd pre-2000

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.052** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.052**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.052**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.23 pound** per hour, nor more than **0.058 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.23 pound** per hour, nor more than **0.058 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.11 pound** per hour, nor more than **0.028 ton** per year, based on a 12-month rolling period. This limit is less than the **0.53 pound** per hour maximum allowable emission limit for **S2.052** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.22 pound** per hour, nor more than **0.054 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **3.31 pounds** per hour, nor more than **0.83 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.71 pound** per hour, nor more than **0.18 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.27 pound** per hour, nor more than **0.067 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.052** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel** fuel consumption rate for **S2.052** will not exceed **5.4 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 **S2.052** will not exceed **0.75 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.052** will not operate in excess of **500** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.052** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.052.**
      (4) Monitor and record that the maintenance and operation of **S2.052** is in accordance with best management practices 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.052**.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.e. of this section.
         (e) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (f) Observations made and any corrective actions taken on **S2.052** for operation and maintenance in accordance with best management practices.

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

Section VI. Specific Operating Conditions (continued)

AI. Emission Unit S2.052 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines
   Permittee must comply with the following applicable requirements no later than **May 3, 2013** for **S2.052** (an existing stationary compression ignition reciprocating internal combustion engines (CI RICE) at an area source of HAP emissions) (40CFR63.6595(a)(1):
   (1) Operating Limitations - 40CFR63.6603(a), Table 2d:
   (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
   (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
   (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   (2) General Requirements – 40 CFR63.6605:
   (a) Permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply at all times.
   (b) Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
   (3) Monitoring, Installation, Collection, Operation, and Maintenance Requirements – 40CFR63.6625(f):
   (a) Permittee must install a non-resettable hour meter if one is not already installed.
   (4) Recordkeeping – 40 CFR63.6655(a) and 40CFR63.6660:
   (a) A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).
   (b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
   (c) Records of all required maintenance performed on the air pollution control and monitoring equipment
   (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
   (e) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
   (f) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
   (g) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AJ. Emission Unit S2.053 Location North 4,265.12 km, East 360.69 km, UTM (Zone 11, NAD 83)

System 36 – 10 kW Lockheed Emergency Diesel Generator
S 2.053 10 kW Lockheed Emergency Diesel Generator (EG-005), s/n 26, mfd pre-2000

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.053** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.053**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.053**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.029 pound** per hour, nor more than **0.0073 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.029 pound** per hour, nor more than **0.0073 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.014 pound** per hour, nor more than **0.0035 ton** per year, based on a 12-month rolling period. This limit is less than the **0.066 pound** per hour maximum allowable emission limit for **S2.053** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.027 pound** per hour, nor more than **0.0068 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.41 pound** per hour, nor more than **0.10 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.089 pound** per hour, nor more than **0.022 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.034 pound** per hour, nor more than **0.0084 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.053** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel** fuel consumption rate for **S2.053** will not exceed **0.7 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 **S2.053** will not exceed **0.09 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.053** will not operate in excess of **500** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.053** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.053.**
      (4) Monitor and record that the maintenance and operation of **S2.053** is in accordance with best management practices 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.053**.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.e. of this section.
         (e) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (f) Observations made and any corrective actions taken on **S2.053** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AJ. Emission Unit S2.053 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines
   Permittee must comply with the following applicable requirements no later than **May 3, 2013** for **S2.053** (an existing stationary compression ignition reciprocating internal combustion engines (CI RICE) at an area source of HAP emissions) (40CFR63.6595(a)(1):
      (1) Operating Limitations - 40CFR63.6603(a), Table 2d:
         (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
         (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
         (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
      (2) General Requirements – 40 CFR63.6605:
         (a) Permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply at all times.
         (b) Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
      (3) Monitoring, Installation, Collection, Operation, and Maintenance Requirements – 40CFR63.6625(f):
         (a) Permittee must install a non-resettable hour meter if one is not already installed.
      (4) Recordkeeping – 40 CFR63.6655(a) and 40CFR63.6660:
         (a) A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).
         (b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
         (c) Records of all required maintenance performed on the air pollution control and monitoring equipment
         (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
         (e) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
         (f) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
         (g) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AK. Emission Unit S2.054 Location North 4,265.12 km, East 360.69 km, UTM (Zone 11, NAD 83)

System 37 – 5 kW Hollingsworth Emergency Gasoline Generator
S 2.054 5 kW Hollingsworth Emergency Gasoline Generator (EG-006), s/n KA70-0663, mfd pre-2000

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.054** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.054**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.054**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0047 pound** per hour, nor more than **0.0012 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0047 pound** per hour, nor more than **0.0012 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.076 pound** per hour, nor more than **0.0019 ton** per year, based on a 12-month rolling period. This limit is less than the **0.033 pound** per hour maximum allowable emission limit for **S2.054** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.c of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.0039 pound** per hour, nor more than **0.0010 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.076 pound** per hour, nor more than **0.019 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.046 pound** per hour, nor more than **0.012 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.14 pound** per hour, nor more than **0.036 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.054** may combust gasoline fuel as the primary fuel only.
   b. The maximum **gasoline** fuel consumption rate for **S2.054** will not exceed **0.4 gallons** per any one-hour period.
   c. The maximum individual operating heat input for **S2.054** will not exceed **0.05 MMBtu** per any one-hour period.
   d. Hours
      (1) **S2.054** will not operate in excess of **500** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of gasoline fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.054** while burning gasoline fuel on a daily basis when operated.
      (3) Monitor and record that the maintenance and operation of **S2.054** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (4) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.054**.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.d. of this section.
         (e) Observations made and any corrective actions taken on **S2.054** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AK. Emission Unit S2.054 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines
   Permittee must comply with the following applicable requirements no later than **October 19, 2013** for **S2.054** (an existing stationary spark ignition reciprocating internal combustion engines (SI RICE) at an area source of HAP emissions) (40CFR63.6595(a)(1):
      (1) Operating Limitations - 40CFR63.6603(a), Table 2d:
         (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
         (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
         (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
      (2) General Requirements – 40 CFR63.6605:
         (a) Permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply at all times.
         (b) Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
      (3) Monitoring, Installation, Collection, Operation, and Maintenance Requirements – 40CFR63.6625(f):
         (a) Permittee must install a non-resettable hour meter if one is not already installed.
      (4) Recordkeeping – 40 CFR63.6655(a) and 40CFR63.6660:
         (a) A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).
         (b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
         (c) Records of all required maintenance performed on the air pollution control and monitoring equipment
         (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
         (e) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
         (f) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
         (g) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AL. Emission Unit S2.055 Location North 4,267.50 km, East 355.90 km, UTM (Zone 11, NAD 83)

System 38 – 5 kW Katolite Emergency Propane Generator
S 2.055 5 kW Katolite Emergency Propane Generator, mfd 2005

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.055** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.055**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.055**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0026 pound** per hour, nor more than **0.0006 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.0026 pound** per hour, nor more than **0.0006 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.0001 pound** per hour, nor more than **0.00002 ton** per year, based on a 12-month rolling period. This limit is less than the **0.033 pound** per hour maximum allowable emission limit for **S2.055** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.c of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.0002 pound** per hour, nor more than **0.00005 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.071 pound** per hour, nor more than **0.018 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.066 pound** per hour, nor more than **0.017 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.043 pound** per hour, nor more than **0.011 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.055** may combust propane fuel as the primary fuel only.
   b. The maximum **propane** fuel consumption rate for **S2.055** will not exceed **0.5 gallons** per any one-hour period.
   c. The maximum individual operating heat input for **S2.055** will not exceed **0.047 MMBtu** per any one-hour period.
   d. Hours
      (1) **S2.055** will not operate in excess of **500** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of propane fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.055** while burning propane fuel on a daily basis when operated.
      (3) Monitor and record that the maintenance and operation of **S2.055** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (4) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.055**.
         (d) The monthly hours of operation, and the corresponding sum of hours of operation for the calendar year. The monthly hours of operation will be determined at the end of each calendar month as the sum of daily hours of operation as determined in (c) above for each day of the calendar month. The monthly hours of operation shall be added beginning in January of each year to insure compliance with 3.d. of this section.
         (e) Observations made and any corrective actions taken on **S2.055** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AL. Emission Unit S2.055 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines
   Permittee must comply with the following applicable requirements no later than **October 19, 2013** for **S2.055** (an existing stationary spark ignition reciprocating internal combustion engines (SI RICE) at an area source of HAP emissions) (40CFR63.6595(a)(1):
   (5) Operating Limitations - 40CFR63.6603(a), Table 2d:
   (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
   (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
   (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   (6) General Requirements – 40 CFR63.6605:
   (a) Permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply at all times.
   (b) Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
   (7) Monitoring, Installation, Collection, Operation, and Maintenance Requirements – 40CFR63.6625(f):
   (a) Permittee must install a non-resettable hour meter if one is not already installed.
   (8) Recordkeeping – 40 CFR63.6655(a) and 40CFR63.6660:
   (a) A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in §63.10(b)(2)(xiv).
   (b) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
   (c) Records of all required maintenance performed on the air pollution control and monitoring equipment
   (d) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
   (e) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
   (f) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
   (g) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AM. Emission Unit S2.056 Location North 4,270.48 km, East 360.01 km, UTM (Zone 11, NAD 83)

System 39 – 3.5 MMBtu/hr International Diesel Boiler
S 2.056 3.5 MMBtu/hr International Diesel Boiler (ICEU-001), mdl# BF-100C-W1HL, s/n 637-E; Building 102-52

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.056** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.056**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.056**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.014 pound** per hour, nor more than **0.059 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.025 pound** per hour, nor more than **0.11 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.045 pound** per hour, nor more than **0.20 ton** per year, based on a 12-month rolling period. This limit is less than the **2.45 pounds** per hour maximum allowable emission limit for **S2.056** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.090 pound** per hour, nor more than **0.39 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.25 pound** per hour, nor more than **1.10 tons** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.063 pound** per hour, nor more than **0.27 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0043 pound** per hour, nor more than **0.019 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.056** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.056** will not exceed **12.5 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.056** will not exceed **3.5 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.056** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.056** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the #2 diesel combusted in **S2.056.**
      (4) Monitor and record that the maintenance and operation of **S2.056** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.056**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the #2 diesel complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.056** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AM. Emission Unit S2.056 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.056** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.056** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.056** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.056** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.056** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.056** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.056** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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Section VI. Specific Operating Conditions (continued)

AN. Emission Unit S2.057 Location North 4,266.01 km, East 360.53 km, UTM (Zone 11, NAD 83)

System 40 – 3.5 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.057 3.5 MMBtu/hr Cleaver Brooks Diesel Boiler (ICEU-002), mdl# M4-6000, s/n 46018805; Building 104-2

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.057** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.057**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.057**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.014 pound** per hour, nor more than **0.059 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.025 pound** per hour, nor more than **0.11 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.045 pound** per hour, nor more than **0.20 ton** per year, based on a 12-month rolling period. This limit is less than the **2.45 pounds** per hour maximum allowable emission limit for **S2.057** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.090 pound** per hour, nor more than **0.39 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.25 pound** per hour, nor more than **1.10 tons** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.063 pound** per hour, nor more than **0.27 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0043 pound** per hour, nor more than **0.019 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.057** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.057** will not exceed **12.5 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.057** will not exceed **3.5 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.057** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.057** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.057.**
      (4) Monitor and record that the maintenance and operation of **S2.057** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.057**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.057** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AN. Emission Unit S2.057 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.057** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.057** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.057** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.057** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.057** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.057** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.057** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AO. Emission Unit S2.058 Location North 4,268.70 km, East 358.71 km, UTM (Zone 11, NAD 83)

System 41 – 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.058 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler (ICEU-004), mdl# OB-3, s/n 0-3619; Building 103-31

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.058** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.058**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.058**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0094 pound** per hour, nor more than **0.041 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.017 pound** per hour, nor more than **0.076 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.031 pound** per hour, nor more than **0.14 ton** per year, based on a 12-month rolling period. This limit is less than the **0.85 pound** per hour maximum allowable emission limit for **S2.058** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.063 pound** per hour, nor more than **0.27 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.76 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.044 pound** per hour, nor more than **0.19 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0030 pound** per hour, nor more than **0.013 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.058** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.058** will not exceed **8.7 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.058** will not exceed **1.2 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.058** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.058** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.058.**
      (4) Monitor and record that the maintenance and operation of **S2.058** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.058**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.058** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AO. Emission Unit S2.058 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.058** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.058** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.058** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.058** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.058** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.058** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.058** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AP. Emission Unit S2.059 Location North 4,268.70 km, East 358.71 km, UTM (Zone 11, NAD 83)

System 42 – 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.059 1.2 MMBtu/hr Cleaver Brooks Diesel Boiler (ICEU-005), mdl# OB-3, s/n 0-3620; Building 103-31

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.059** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.059**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.059**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.0094 pound** per hour, nor more than **0.041 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.017 pound** per hour, nor more than **0.076 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.031 pound** per hour, nor more than **0.14 ton** per year, based on a 12-month rolling period. This limit is less than the **0.85 pound** per hour maximum allowable emission limit for **S2.059** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.063 pound** per hour, nor more than **0.27 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.76 ton** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.044 pound** per hour, nor more than **0.19 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0030 pound** per hour, nor more than **0.013 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.059** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.059** will not exceed **8.7 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.059** will not exceed **1.2 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.059** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.059** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.059.**
      (4) Monitor and record that the maintenance and operation of **S2.059** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.059**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.059** for operation and maintenance in accordance with best management practices.

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Section VI. Specific Operating Conditions (continued)

AP. Emission Unit S2.059 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.059** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.059** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.059** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.059** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.059** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.059** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.059** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AQ. Emission Unit S2.060 Location North 4,265.70 km, East 360.82 km, UTM (Zone 11, NAD 83)

System 43 – 2.5 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.060 2.5 MMBtu/hr Cleaver Brooks Diesel Boiler (ICEU-008), mdl# CBE100-060-150ST, s/n OL103313; Building 104-9

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.060** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.060**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.060**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.019 pound** per hour, nor more than **0.085 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.036 pound** per hour, nor more than **0.16 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.065 pound** per hour, nor more than **0.28 ton** per year, based on a 12-month rolling period. This limit is less than the **1.75 pounds** per hour maximum allowable emission limit for **S2.060** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.13 pound** per hour, nor more than **0.57 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.36 pound** per hour, nor more than **1.58 tons** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.090 pound** per hour, nor more than **0.39 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0061 pound** per hour, nor more than **0.027 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.060** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.060** will not exceed **18.0 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.060** will not exceed **2.5 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.060** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.060** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.060.**
      (4) Monitor and record that the maintenance and operation of **S2.060** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.060**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.060** for operation and maintenance in accordance with best management practices.

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

Section VI. Specific Operating Conditions (continued)

AQ. Emission Unit S2.060 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.060** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.060** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.060** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.060** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.060** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.060** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.060** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AR. Emission Unit S2.061 Location North 4,265.70 km, East 360.82 km, UTM (Zone 11, NAD 83)

System 44 – 3.8 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.061 3.8 MMBtu/hr Cleaver Brooks Diesel Boiler (ICEU-009), mdl# CBE100-090-150ST, s/n OL103314; Building 104-4

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.061** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.061**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.061**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.029 pound** per hour, nor more than **0.13 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.054 pound** per hour, nor more than **0.24 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.097 pound** per hour, nor more than **0.42 ton** per year, based on a 12-month rolling period. This limit is less than the **2.66 pounds** per hour maximum allowable emission limit for **S2.061** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.19 pound** per hour, nor more than **0.85 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.54 pound** per hour, nor more than **2.37 tons** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.14 pound** per hour, nor more than **0.59 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0092 pound** per hour, nor more than **0.040 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.061** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.061** will not exceed **27.0 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.061** will not exceed **3.8 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.061** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.061** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.061.**
      (4) Monitor and record that the maintenance and operation of **S2.061** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.061**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.061** for operation and maintenance in accordance with best management practices.

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

Section VI. Specific Operating Conditions (continued)

AR. Emission Unit S2.061 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.061** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.061** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.061** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.061** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.061** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.061** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.061** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AS. Emission Unit S2.062 Location North 4,266.49 km, East 359.87 km, UTM (Zone 11, NAD 83)

System 45 – 3.4 MMBtu/hr Cleaver Brooks Diesel Boiler
S 2.062 3.4 MMBtu/hr Cleaver Brooks Diesel Boiler, s/n L99881; Building 49-31

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.062** shall be controlled by operating the boiler in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.062**, Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.062**, the following pollutants in excess of the following specified limits:
   a. NAC 445B.305 *Part 70 Program* - The discharge of **PM_{10}** to the atmosphere will not exceed **0.026 pound** per hour, nor more than **0.11 ton** per year, based on a 12-month rolling period.
   b. NAC 445B.305 *Part 70 Program* - The discharge of **PM** to the atmosphere will not exceed **0.048 pound** per hour, nor more than **0.21 ton** per year, based on a 12-month rolling period.
   c. NAC 445B.305 *Part 70 Program* - The discharge of **sulfur** to the atmosphere will not exceed **0.086 pound** per hour, nor more than **0.38 ton** per year, based on a 12-month rolling period. This limit is less than the **2.38 pounds** per hour maximum allowable emission limit for **S2.062** as determined from NAC 445B.22047 (*Federally Enforceable SIP Requirement)* and the maximum allowable heat input rate as limited in 3.d of this section.
   d. NAC 445B.305 *Part 70 Program* - The discharge of **SO_2** to the atmosphere will not exceed **0.17 pound** per hour, nor more than **0.76 ton** per year, based on a 12-month rolling period.
   e. NAC 445B.305 *Part 70 Program* - The discharge of **NO_x** to the atmosphere will not exceed **0.48 pound** per hour, nor more than **2.10 tons** per year, based on a 12-month rolling period.
   f. NAC 445B.305 *Part 70 Program* - The discharge of **CO** to the atmosphere will not exceed **0.12 pound** per hour, nor more than **0.53 ton** per year, based on a 12-month rolling period.
   g. NAC 445B.305 *Part 70 Program* - The discharge of **VOC** to the atmosphere will not exceed **0.0082 pound** per hour, nor more than **0.036 ton** per year, based on a 12-month rolling period.
   h. NAC 445B.22017 *Federally Enforceable SIP 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) *Part 70 Program*
   a. **S2.062** may combust #2 diesel fuel as the primary fuel only.
   b. The maximum **#2 diesel fuel** consumption rate for **S2.062** will not exceed **24.0 gallons** per any one-hour period.
   c. The maximum **sulfur** content of the #2 diesel fuel will not exceed **0.05 weight percent** sulfur.
   d. The maximum individual operating heat input for **S2.062** will not exceed **3.4 MMBtu** per any one-hour period.
   e. Hours
      (1) **S2.062** may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. Permittee will, upon the issuance date of this permit:
      (1) Monitor and record the fuel consumption rate of #2 diesel fuel as measured by the fuel flow meter on a daily basis when operated.
      (2) Monitor and record the hours of operation of **S2.062** while burning #2 diesel fuel on a daily basis when operated.
      (3) Monitor the sulfur content of the **#2 diesel** combusted in **S2.062.**
      (4) Monitor and record that the maintenance and operation of **S2.062** is in accordance with best management practices and maintenance guidelines, on a monthly basis.
      (5) The requirement monitoring and recordkeeping established in (1) through (3) 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 total daily fuel consumption value.
         (c) The total daily hours of operation for **S2.062**.
         (d) Fuel supplier certification consisting of the name of the oil supplier, and a statement from the oil supplier that the **#2 diesel** complies with the sulfur limit as specified in 3.c of this section for each #2 diesel delivery.
         (e) Observations made and any corrective actions taken on **S2.062** for operation and maintenance in accordance with best management practices.

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

Section VI. Specific Operating Conditions (continued)

AS. Emission Unit S2.062 (continued)

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   b. 40 CFR Part 63 Subpart JJJJJJ - NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources
   Permittee must comply with the following applicable requirements for **S2.062** (an existing industrial boiler at an area source of HAP emissions):
   (1) Compliance Dates – 40 CFR 63.11196
   (a) **S2.062** will achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2012.
   (2) Work Practice Standards - 40CFR63.11201(b), Table 2:
   (a) Conduct a tune-up of **S2.062** biennially as specified in 40 CFR 63.11223.
   (3) General Requirements – 40 CFR 63.1205(a):
   (a) Permittee must operate and maintain **S2.062** in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times.
   (4) Initial Compliance Requirements – 40 CFR 63.11210(c), 40 CFR 63.11214(b) and (c):
   (a) Permittee must demonstrate initial compliance no later than the compliance date specified in 40 CFR 63.11196 (refer to A.4.d(1) of this section).
   (b) Permittee must conduct a performance tune-up for **S2.062** according to 40 CFR 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that a tune-up of **S2.062** was completed.
   (5) Continuous Compliance Requirements – 40CFR 63.11223(a):
   (a) Permittee will conduct a biennial performance tune-up for **S2.062** according to 63.11223(b) and keep records as required in 63.11225(c). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
   (6) Notification, Reporting, Recordkeeping Requirements – 40 CFR 63.11225:
   (a) Permittee must submit the Notification of Compliance Status specified in 40 CFR 63.11225(a)(4) no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 (refer to A.4(d)(1)).
   (b) Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225(b).
   (c) Permittee must maintain the records specified in 40 CFR 63.11225(c).
   (d) Permittee must maintain records in a form suitable for and readily available for expeditious review as specified in 40 CFR 63.11225(d).

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

Section VI. Specific Operating Conditions (continued)

AT. Emission Units S2.063 and S2.064 Location North 4,270.51 km, East 360.00 km, UTM (NAD 83, Zone 11)
Emission Unit S2.065 Location North 4,270.32 km, East 359.51 km, UTM (NAD 83, Zone 11)

System 46 – Gasoline Storage Tanks		
S	2.063	Gasoline Storage Tank (GT001, mfd by Elutron), 10,000 gallons, underground, Building #102-52
S	2.064	Gasoline Storage Tank (GT002, mfd by Elutron), 10,000 gallons, underground, Building #102-52
S	2.065	Gasoline Storage Tank (GT003, mfd by San Luis Tank and Piping Construction Co.), 1,000 gallons, above ground, Building #150

1. Air Pollution Control Equipment NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emissions from **S2.063 through S2.065** shall be controlled in a manner which minimizes emissions.

2. Emission Limits NAC 445B.3405 (NAC 445B.316) *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 loading into the three gasoline tanks combined (**S2.063 through S2.065**):
   a. The combined discharge of **VOC** to the atmosphere will not exceed **1.32 tons** per year, based on a 12-month rolling period.

3. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. The maximum **gasoline** loading into storage tanks **S2.063 through S2.065** combined will not exceed **10,000 gallons per calendar month**.
   b. Permittee will submit notification and supporting information of identification 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.
   c. **S2.063 through S2.065** each, may operate **8,760** hours per calendar year.

4. Monitoring, Recordkeeping, Reporting, and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program* (continued)
   Permittee, upon the issuance date of this permit, will:
   a. Record in a contemporaneous log the total gasoline loaded into, or dispensed from, **S2.063 through S2.065** combined, as measured by individual fuel flow meters on a monthly basis.
   b. Record in the contemporaneous log required in 4.a above, the cumulative total monthly gasoline loaded on a 12-month rolling period.

   c. 40 CFR Part 63 Subpart CCCCCC - NESHAP for Gasoline Dispensing Facilities
      Permittee must comply with the following no later than **January 10, 2011** for **S2.063 through S2.065** (40 CFR 63.11113(b):
      (1) Facility Requirements with Monthly Throughput of Less Than 10,000 Gallons of Gasoline – 40 CFR 63.11116
         (a) Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
            (i) Minimize gasoline spills;
            (ii) Clean up spills as expeditiously as practicable;
            (iii) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
            (iv) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
         (b) Permittee is not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, must have records available within 24 hours of a request by the Administrator to document Permittee's gasoline throughput.
         (c) Permittee must comply with the requirements of this subpart by the applicable dates specified in §63.11113.
         (d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(iii) of this section.

5. Shielded Requirements NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   No shield requested.

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

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

Section VII. Emission Caps

A. Cap for Emission Units S2.001 through S2.004, S2.011 and S2.014

1. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   On and after the date of startup of **S2.001 through S2.004, 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 **3.00 tons** per year, based on a 12-month rolling period
   b. The combined discharge of **PM_{10}** to the atmosphere will not exceed **1.62 tons** per year, based on a 12-month rolling period.
   c. The combined discharge of **sulfur** to the atmosphere will not exceed **2.69 tons** per year, based on a 12-month rolling period.
   d. The combined discharge of **SO_2** to the atmosphere will not exceed **5.40 tons** per year, based on a 12-month rolling period.
   e. The combined discharge of **NO_x** to the atmosphere will not exceed **16.50 tons** per year, based on a 12-month rolling period.
   f. The combined discharge of **CO** to the atmosphere will not exceed **11.25 tons** per year, based on a 12-month rolling period.
   g. The combined discharge of **VOC** to the atmosphere will not exceed **1.02 tons** per year, based on a 12-month rolling period.

2. Operating Parameters NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   a. The maximum annual **#2 diesel** fuel consumption for **S2.001 through S2.004, S2.011, and S2.014** combined, will not exceed **1,500,000 gallons per year**, based on a 12-month rolling period.

3. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *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, VI.B.4, VI.C.4, VI.D.4, VI.G.4, and VI.H.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.a, VI.B.4.a, VI.C.4.a, VI.D.4.a, VI.G.4.a, and VI.H.4.a of this permit, on a monthly basis, for **S2.001 through S2.004, 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. Open Burning Hazardous Air Pollutant Emission Cap

Emission Units F1.001 through F1.020

1. Emission Limits NAC 445B.3405 (NAC 445B.316) *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) *Part 70 Program*
   In addition to the monitoring and recordkeeping requirements contained in Section VI.AB.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.

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

Section VII. Emission Caps (continued)

C. Main Base Facility-Wide Cap for Hazardous Air Pollutants

1. Emission Limits NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Permittee will not discharge or cause the discharge into the atmosphere pollutants from the Main Base Facility in excess of the following specified limits:
   a. The discharge of any single HAP (Hazardous Air Pollutant) to the atmosphere from the facility shall not exceed **9.9** tons per year (based on a 12-month rolling period).
   b. The discharge of HCl (Hydrogen Chloride) to the atmosphere from the facility shall not exceed **9.9** tons per year (based on a 12-month rolling period).
   c. The discharge of any combination of HAPs to the atmosphere shall not exceed **24.9** tons per year (based on a 12-month rolling period).

2. Monitoring, Recordkeeping, Reporting and Compliance NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Permittee, upon issuance of this permit, will:
   a. Monitor and record the resulting Main Base Facility-Wide HAP emissions in tons for each HAP on a monthly basis.
   b. Monitor and record the resulting Main Base Facility-Wide HAP emissions in tons for each HAP on a 12 month rolling basis.
   c. Monitor and record the resulting Main Base Facility-Wide HAP emissions in tons for all HAPs on a monthly basis.
   d. Monitor and record the resulting Main Base Facility-Wide HAP emissions in tons for all HAPs on a 12 month rolling basis.
   e. The required monitoring established in a through d above, will be maintained in a contemporaneous log containing, at a minimum, the following recording:
      (1) The calendar month of any required monitoring.
         (a) The monthly individual HAP emission rate in tons per calendar month, and the corresponding annual individual HAP emission rate in tons per 12-month rolling period for the **Main Base Facility**. The monthly individual HAP emission rate will be determined at the end of each calendar month. The annual individual HAP emission rate will be determined at the end of each calendar month as the sum of the monthly individual HAP emission rates for the 12 immediately preceeding calendar months.
         (b) The monthly combined HAP emission rate in tons per calendar month, and the corresponding annual combined HAP emission rate in tons per 12-month rolling period for **Main Base Facility**. The monthly combined HAP emission rate will be determined at the end of each calendar month. The annual combined HAP emission rate will be determined at the end of each calendar month as the sum of the monthly combined HAP emission rates for the 12 immediately preceeding calendar months. Combined HAP emissions shall be calculated by combining the individual HAP emissions reported above.

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

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

Section VIII. Surface Area Disturbance Conditions

Surface area disturbance in excess of 20 acres.

A. Dust Control Plan (NRS 445B.230.6)
The 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 8 of the Class I-B Operating Permit Renewal Application dated November 7, 2008, and as contained in Appendix 8 of the Class I-B Operating Permit Significant Revision Application dated September 24, 2010.

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 **********

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

Section IX. Schedules of Compliance

A. No Schedules of Compliance.

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

Facility ID No. A0022 Permit No. AP9711-0863.02
CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS

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

Section X. Amendments

December 29, 2011 – This permit includes several actions by request of **Permittee**:

- Operating Permit to Construct AP9711-1445 transfer to Class I Air Permit AP9711-0863.01, case# 08AP0132, application submitted 11/07/07.
- Revision to Operating Permit to Construct AP9711-1445, case# 09AP0151, application submitted 11/17/08 .
- Renewal of Class I Air Permit AP9711-0863.01, case# 09AP0150, application submitted 11/17/08.
- Significant Revision of Class I Air Permit AP9711-0863.01, case#11AP0124, application submitted 9/24/10.

The four application documents submitted to NBAPC will result in a single Title V Operating Permit that includes the following:

- Renewed and Revised Main Base Air Permit for HWAD.
- RF-9 included in the HWAD Main Base operating permit (no longer an OPTC).
- RF-9 operating hours increased to 4,660 hours per year.
- PODS cooling tower added to the emissions inventory as an insignificant source.
- RF-9 and PODS emissions reflecting compliance with April 2008 MACT standards.
- Removal of two boilers no longer in service (S2.005 & S2.007).
- Removal of radial stacker damaged beyond repair and removed from site (PF1.016).
- Removal of emergency generator (Cummins Generator, Serial #J920487824, permit IDEG-004) and replacement with a similar Katolight generator.
- Removal of surface coating booth (S2.042), removed from facility.
- Revision of lead emissions for Hot Gas Decontamination System (S2.044).
- Inclusion of a new surface coating booth operating 8760 hours per year.
- Inclusion of an abrasive blaster (Pangborn Blast Booth, Model LK-4, Serial 6LK4-711).
- Inclusion of used oil heater as an insignificant unit, less than 4 MMBtu.
- Boilers (units S2.001/002/003/004/011/014) restricted to 1,500,000 gal/yr fuel cap.
- Permit three gasoline dispensing storage tanks, restricted to a 10,000 gal/month.
- Old Bomb restricted to 1,000 lb/open burn/pan, and 20,000 lb/day total, and 3,900,000 lb/calendar year total.
- Facility-wide HAPs will not exceed 10 tons/yr of any one HAP or 25 tons/yr total HAPs.
- Specifically, the following caps are in place; facility-wide total HAPs cap is 24.9 ton/yr and the facility-wide HCl cap is 9.9 ton/yr.
- Old Bomb will not exceed 9.07 tons/yr of any individual HAP or 18.07 tons/yr total HAPs (these caps fall under the facility-wide cap).
- Remove lead emission limits and lead emission testing requirement for the boilers.
- Remove Schedule of Compliance for Chemical Accident Prevention Provisions – RMP submitted July 2009 to Region 9 EPA.
- Remove Schedule of Compliance for "Plan for Reduction of Emissions" – Plan submitted to NBAPC April 2011.

This permit:

1. **Is non-transferable. (NAC 445B.287.4) *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, 2009. (NAC 445B.315 and NAC 445B.3443.1) *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 240 calendar days before the expiration date of this operating permit. NAC 445B.3443.2 *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, 2014**

Signature _____

Issued by: Jeffrey Kinder, P.E.
Supervisor, Class I Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687-9475 Date: December 29, 2011

rp 12/11

Insignificant Emission Units

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
AP9711-0863.02

Emission Unit	Emission Unit Description
ICEU-006	**Furnaces, <4.0 MMBtu/hr #2 Diesel Fired** 3.6 MMBtu/hr J.T. Thorpe Inc. Flashing Furnace (WADF), Bldg 117-3 **Miscellaneous Insignificant Sources** Distillate Fuel Tanks, Base Wide Cold Solvent Cleaners - 19 Chemistry Laboratory PODS Cooling Tower, Bldg 117-2 0.5 MMBtu/hr Used Oil Heater, Bldg 64

Trivial Emission Units

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
AP9711-0863.02

Emission Unit	Emission Unit Description
	Hot Water Heaters, <4.0 MMBtu/hr, #2 Diesel Fired
IEU-1-HW	2.5 MMBtu/hr Ajax Hot Water Heater, mdl WOFD-2000, s/n 22576-8W, Bldg 102-51
IEU-2-HW	2.5 MMBtu/hr Ajax Hot Water Heater, mdl# WOFD-2000, s/n 22579-8W, Bldg 102-51
IEU-4-HW	2.4 MMBtu/hr Bryan Hot Water Heater, mdl# CK240-W-FDO, s/n 68279, Bldg 101-71
IEU-5-HW	0.6 MMBtu/hr Ajax Hot Water Heater, mdl# WOFD-350, s/n 75-28624, Bldg 97
IEU-6-HW	0.6 MMBtu/hr Ajax Hot Water Heater, mdl# WOFD-350, s/n 74-27565, Bldg 97
IEU-7-HW	1.3 MMBtu/hr Columbia Hot Water Heater, mdl# WL-60, s/n 113523, Dock 3
IEU-8-HW	1.3 MMBtu/hr Columbia Hot Water Heater, mdl# WL-60, s/n 113524, Dock 3
IEU-11-HW	3.6 MMBtu/hr Peerless Hot Water Heater, mdl# NPF483451020, s/n FR-48N-3, Bldg 101-48
	Hot Water Heater, <4.0 MMBtu/hr, Propane Fired
IEU-12-HW	1.8 MMBtu/hr Raypack Boiler, mdl# H-1826A-CCARCCA, s/n 60481, Bldg 703
IEU-13-HW	0.3 MMBtu/hr H.B. Smith Boiler, mdl# PG-300-S/W, s/n A77-0413, Bldg 514
IEU-14-HW	0.3 MMBtu/hr H.B. Smith Boiler, mdl# PG-300-S/W, s/n A77-0413, Bldg 515
	Facility Maintenance Welding Units <250 hp, #2 Diesel Fired
IEU-21	0.2 MMBtu/hr Miller generator, s/n KJ028593
IEU-22	0.2 MMBtu/hr Miller generator, s/n KJ062307
IEU-23	0.2 MMBtu/hr Miller generator, s/n KJ062308
IEU-26	0.2 MMBtu/hr Lincoln generator, s/n A-1177958
IEU-28	0.2 MMBtu/hr Lincoln generator, s/n A-1175391
	Miscellaneous Trivial Emission Units
	Water Coolers, < 10 HP, On-Site Non-Industrial Water Use
	Marly, Double Flow Aquatower

Non-Road Engine List

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
AP9711-0863.02

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, s/n RZ5 2782)
MCIG-002	Hollingsworth Electric Generator, 30 KW, s/n KZO 4018
MCIG-003	Hollingsworth Electric Generator, 30 KW, s/n KZO 0545
MCIG-004	Westinghouse Electric Generator, 30 KW, s/n PO 5991)
MCIG-005	John R. Hollingsworth Generator, 15 KW, s/n ASK-15-1113
MCIG-006	Kohler Power Systems Generator, 30 KW, s/n TO4239D232478
MCIG-007	T & J Manufacturing Powerguard Electric Generator, 12.5 KW, s/n H923642
MCIG-008	Leroi-Somer Generator, 12.5 KW, s/n 16781/08
MCIG-009	Kohler Power Systems Generator, 30 KW, s/n TO4239D232273
MCIG-010	T & J Manufacturing Powerguard Electric Generator, 12.5 KW, s/n H923644
MCIG-011	Fermont Division of DCA, Electric Generator, 60 KW, s/n FZ-03349
MCIG-012	Kohler Power Systems Generator, 30 KW, s/n TO4239D232486
MCIG-013	Katolight Electric Generator, 60 KW, s/n LM233538
MCIG-014	Katolight Electric Generator, 60 KW, s/n LM233539
MCIG-015	Katolight Electric Generator, 60 KW, s/n LM233548
MCIG-016	Kato Electric Generator, 60 KW, s/n 72031
	Diesel Fired Generators Removed From Permitted Unit List
S2.021	Spokane Detroit Diesel Generator, 200 KW, Model UC 127451, s/n 470782
S2.022	AG Schoonmaker Generator, 250 KW, s/n A109-6
S2.023	AG Schoonmaker Generator, 250 KW, s/n A109-7
S2.024	Cummins Generator, 500 KW, s/n PM-19-51166-11/6-01
S2.025	AG Schoonmaker Generator, 250 KW, s/n A109-11
S2.026	AG Schoonmaker Generator, 250 KW, s/n A109-12
	Miscellaneous Combustion Device, <4.0 MMBtu/hr, #2 Diesel Fired
ICEU-007	Idromec hydraulic bailer, mdl# 4200, s/n 71A08065

Emission Units Removed From Inventory

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
AP9711-0863.02

Emission Unit	Emission Unit Description
	Boilers, >4.0 MMBtu/hr, #2 Distillate (#2 Diesel) Fired
S2.005	Nebraska Boiler, mdl# NS-B-34, s/n 2D1696, Bldg 103-6
S2.006	Nebraska Boiler, mdl# NS-A-42, s/n 2D1750, Bldg 101-25
S2.007	Mund Boiler, mdl# OB55770, s/n 11737, Bldg 49-31
S2.008	Mund Boiler, mdl# C60-B5570, s/n 11738, Bldg 101-42
S2.009	York Shipley Boiler, mdl# SPH57-170-6, s/n 57-3909, Bldg 104-4
S2.010	Superior Boiler, mdl# 2991, s/n 4519, Bldg 101-25
	Decontamination System
S2.020	Walker-Boudwin Flashing Chamber (Hot Gas Decontamination System), Bldg 117-15
	Generators, >250 hp, #2 Distillate (#2 Diesel) Fired
S2.027	Libby Welding Company Generator, 200 KW, s/n RZ00025
S2.028	Libby Welding Company Generator, 200 KW, s/n RZ00030
S2.029	Libby Welding Company Generator, 200 KW, s/n RZ00054
S2.030	Libby Welding Company Generator, 200 KW, s/n RZ00057
	Facility Generators, <250 hp, #2 Distillate (#2 Diesel) Fired - HWAD
IEU-18	Deutz Generator, 10 KW, s/n 4770966
IEU-19	Deutz Generator, 10 KW, s/n 4773455
IEU-20	Deutz Generator, 10 KW
IEU-24	Lincoln Generator, s/n A-117795
IEU-25	Lincoln Generator, s/n A-117539
IEU-27	Lincoln Generator, s/n A-1175386
	Generators, <250 hp, #2 Distillate (#2 Diesel) Fired - USMC Mortar Test Range
IEU-36	Toyo Denki Generator, 15 KW, s/n Gen-21565
IEU-37	Toyo Denki Generator, 15 KW, s/n Gen-21545
	Generators, <250 hp, Gasoline Fired - HWAD
IEU-16	Hollingsworth Generator, 3 KW, s/n KA68-06338
IEU-17	Hollingsworth Generator, 3 KW, s/n KA68-07915
EG-006	
	Emergency Generators, <250 hp, #2 Distillate (#2 Diesel) Fired - HWAD
	Fermont Generator, 100 KW, s/n J26-017
EG-002	Cummins Generator, 5.0 KW , s/n J920487824
EG-004	
	Abrasive Blasters
	Projectile Grit Blaster, American Wheelabrator, mdl# US Army A91043, s/n US Army
S2.031	8001 1029 APE, Bldg 103-16
	Grit Blaster, Pangborn Division, Carborundum Co., mdl# 5060A, s/n 6LE-463
S2.032	Grit blaster, Pangborn Division, Carborundum Co., mdl# LK-4, s/n 6LK4-711, Bldg 103-9
S2.033	

Emission Units Removed From Inventory

Appended to Department of the Army, Hawthorne Army Depot (HWAD)
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Emission Unit	Emission Unit Description
	Surface Coating Operations
S2.042	Surface Coating Booth, Bldg 104-5
	Aggregate Operations
PF1.016	Kolberg 75' Radial Stacker, s/n 2374-127-80-75
	Woodworking Operations
S2.035	Woodworking Operations, Bldg 104-5
S2.036	Woodworking Operations, Bldg 146
	Furnace, <4.0 MMBtu/hr, Propane (LPG) Fired
S2.019	Aluminum King Aluminum/Metal Melting/Recycling Furnace, mdl# AK 7000, s/n 1221-95
	Boilers, <4.0 MMBtu/hr, Propane (LPG) Fired
ICEU-003	Cleaver Brooks Boiler, mdl# C6-B-IL, s/n 0-2934, Bldg 104-9
	Battery Recycling Operation
	Naval Undersea Warfare Center – Hawthorne Detachment (NUWC-HD)
	Battery Decanning-Decasing-Washing-Waste Water Treatment Operation