

**DRAFT PERMIT #73126**

**PLACE ID #2238**

**PERMITTEE:** Sturm, Ruger & Company, Inc.  
**FACILITY:** Sturm, Ruger & Company Prescott Facility  
**PERMIT TYPE:** Class II Air Quality Permit  
**DATE ISSUED:**  
**EXPIRY DATE:**

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**SUMMARY**

This Class II air quality permit is issued to Sturm, Ruger & Company, Inc., the Permittee, for the continued operation of the Sturm Ruger & Company Prescott Facility. The facility is located at 200 Ruger Rd Prescott, AZ 86301 (Place ID: 2238). This is a renewal of Permit #58528.

The facility's potential to emit (PTE) for all pollutants, without controls or operating limitations, is less than the major source thresholds but is greater than the significant levels for PM<sub>10</sub> and PM<sub>2.5</sub>, therefore a Class II permit is required.

This permit is issued in accordance with Arizona Revised Statutes (A.R.S) 49-426. It contains requirements from Title 18, Chapter 2 of the Arizona Administrative Code (A.A.C) and Title 40 of the Code of Federal Regulations. All definitions, terms, and conditions used in this permit conform to those in R18-2-101 et. seq. of the A.A.C. and Title 40 of the Code of Federal Regulations (CFR), except as otherwise defined in this permit.

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**ATTACHMENT "A": GENERAL PROVISIONS**

**I. PERMIT EXPIRATION AND RENEWAL**

[ARS § 49-426.F, A.A.C. R18-2-304.D.2, and -306.A.1]

- A. This permit is valid for a period of five (5) years from the date of issuance.
- B. The Permittee shall submit an application for renewal of this permit at least six (6) months, but not more than eighteen (18) months, prior to the date of permit expiration.

**II. COMPLIANCE WITH PERMIT CONDITIONS**

[A.A.C. R18-2-306.A.8.a and b]

- A. The Permittee shall comply with all conditions of this permit including all applicable requirements of the Arizona Revised Statutes (A.R.S.) Title 49, Chapter 3, and the air quality rules under Title 18, Chapter 2 of the Arizona Administrative Code. Any permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.
- B. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE**

[A.A.C. R18-2-306.A.8.c, -321.A.1.c- d, and -321.A.2]

- A. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- B. The permit shall be reopened and revised under any of the following circumstances:
  - 1. The Director or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - 2. The Director or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.
- C. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopenings shall be made as expeditiously as practicable. Permit reopenings shall not result in a resetting of the five-year permit term.

**IV. POSTING OF PERMIT**

[A.A.C. R18-2-315]

- A.** The Permittee shall post this permit or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by this permit shall be clearly marked with one of the following:
  - 1. Current permit number; or
  - 2. Serial number or other equipment ID number that is also listed in the permit to identify that piece of equipment.
- B.** A copy of the complete permit shall be kept on site.

**V. FEE PAYMENT**

[A.A.C. R18-2-306.A.9 and -326]

The Permittee shall pay fees to the Director pursuant to ARS § 49-426(E) and A.A.C. R18-2-326.

**VI. ANNUAL EMISSION INVENTORY QUESTIONNAIRE**

[A.A.C. R18-2-327.A and B]

- A.** The Permittee shall complete and submit to the Director an annual emissions inventory questionnaire. The questionnaire is due by March 31<sup>st</sup> or ninety (90) days after the Director makes the inventory form available each year, whichever occurs later, and shall include emission information for the previous calendar year.
- B.** The questionnaire shall be on a form provided by the Director and shall include the information required by A.A.C. R18-2-327.B.

**VII. COMPLIANCE CERTIFICATION**

[A.A.C. R18-2-309.2.a, -309.2.c-d, and -309.5.d]

- A.** The Permittee shall submit a compliance certification to the Director annually, which describes the compliance status of the source with respect to each permit condition. The certification shall be submitted no later than November 15th, and shall report the compliance status of the source during the period between October 1st of the previous year and September 30th of the current year.
- B.** The compliance certifications shall include the following:
  - 1. Identification of each term or condition of the permit that is the basis of the certification;
  - 2. Identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period;
  - 3. Status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in Condition VII.B.2. The certifications shall identify each deviation and take it into account in the compliance certification;

4. All instances of deviations from permit requirements reported pursuant to Condition XII.B; and
  5. Other facts the Director may require in determining the compliance status of the source.
- C. A progress report on all outstanding compliance schedules shall be submitted every six months beginning six months after permit issuance.

**VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS**

[A.A.C. R18-2-304.I]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**IX. INSPECTION AND ENTRY**

[A.A.C. R18-2-309.4]

Upon presentation of proper credentials, the Permittee shall allow the Director or the authorized representative of the Director to:

- A. Enter upon the Permittee's premises where a source is located, emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;
- B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and
- E. Record any inspection by use of written, electronic, magnetic and photographic media.

**X. PERMIT REVISION PURSUANT TO FEDERAL HAZARDOUS AIR POLLUTANT STANDARD**

[A.A.C. R18-2-304.D.3]

If this source becomes subject to a standard promulgated by the Administrator pursuant to Section 112(d) of the Act, then the Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

**XI. ACCIDENTAL RELEASE PROGRAM**

[40 CFR Part 68]

If this source becomes subject to the provisions of 40 CFR Part 68, then the Permittee shall comply with these provisions according to the time line specified in 40 CFR Part 68.

## **XII. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING**

### **A. Excess Emissions Reporting**

[A.A.C. R18-2-310.01.A, B, and C]

#### 1. Excess emissions shall be reported as follows:

a. The Permittee shall report to the Director any emissions in excess of the limits established by this permit. Such report shall be in two parts as specified below:

- (1) Notification by telephone or facsimile within 24 hours of the time when the Permittee first learned of the occurrence of excess emissions including all available information from Condition XII.A.1.b.
- (2) Detailed written notification by submission of an excess emissions report within 72 hours of the notification pursuant to Condition XII.A.1.a(1).

b. The report shall contain the following information:

- (1) Identity of each stack or other emission point where the excess emissions occurred;
- (2) Magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
- (3) Date, time and duration, or expected duration, of the excess emissions;
- (4) Identity of the equipment from which the excess emissions emanated;
- (5) Nature and cause of the emissions;
- (6) If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;
- (7) Steps that were or are being taken to limit the excess emissions; and

(8) If the excess emissions resulted from start-up or malfunction, the report shall contain a list of the steps taken to comply with the permit procedures.

2. In the case of continuous or recurring excess emissions, the notification requirements of this section shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in such notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period, or changes in the nature of the emissions as originally reported, shall require additional notification pursuant to Condition XII.A.1.

**B. Permit Deviations Reporting**

[A.A.C. R18-2-306.A.5.a and b]

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the applicable requirement contains a definition of prompt or otherwise specifies a timeframe for reporting deviations, that definition or timeframe shall govern. Where the applicable requirement does not address the timeframe for reporting deviations, the Permittee shall submit reports of deviations according to the following schedule:

1. Notice that complies with A.A.C. R18-2-310.01.A is prompt for deviations that constitute excess emissions;
2. Notice that is submitted within two working days of discovery is prompt for deviations of permit conditions identified by Condition I.B.1 of Attachment “B”; and;
3. Except as provided in Conditions XII.B.1 and 2, prompt notification of all other types of deviations shall be annually, concurrent with the annual compliance certifications required in Condition VII, and can be submitted on the Excess Emissions/Deviation Monitoring Report form located on the Arizona Department of Environmental Quality Website.

**C. Emergency Provision**

[A.A.C. R18-2-306.E]

1. An “emergency” means any situation arising from sudden and reasonable unforeseeable events beyond the control of the Permittee, including acts of God, that require immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if Condition XII.C.3 is met.
3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;
  - b. At the time of the emergency, the permitted facility was being properly operated;
  - c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - d. The Permittee submitted notice of the emergency to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**D. Affirmative Defenses for Excess Emissions Due to Malfunctions, Startup, and Shutdown**  
[A.A.C. R18-2-310]

1. Applicability

A.A.C. R18-2-310 establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

  - a. Promulgated pursuant to Sections 111 or 112 of the Act;
  - b. Promulgated pursuant to Titles IV or VI of the Clean Air Act;
  - c. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. EPA;
  - d. Contained in A.A.C. R18-2-715.F; or
  - e. Included in a permit to meet the requirements of A.A.C. R18-2-406.A.5.
2. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. When emissions in excess of an applicable emission limitation are due to a malfunction, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

- a. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the Permittee;
- b. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
- c. If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the Permittee satisfactorily demonstrated that the measures were impracticable;
- d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;
- e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
- f. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;
- g. During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;
- h. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;
- i. All emissions monitoring systems were kept in operation if at all practicable; and
- j. The Permittee's actions in response to the excess emissions were documented by contemporaneous records.

3. Affirmative Defense for Startup and Shutdown

- a. Except as provided in Condition XII.D.3, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. When emissions in excess of an applicable emission limitation are due to startup and shutdown, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:
- (1) The excess emissions could not have been prevented through careful and prudent planning and design;
  - (2) If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;
  - (3) The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
  - (4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;
  - (5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
  - (6) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;
  - (7) All emissions monitoring systems were kept in operation if at all practicable; and
  - (8) Contemporaneous records documented the Permittee's actions in response to the excess emissions.
- b. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to Condition XII.D.2.
4. Affirmative Defense for Malfunctions During Scheduled Maintenance
- If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to Condition XII.D.2.
5. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under Condition XII.D.2 or XII.D.3, the Permittee shall demonstrate, through submission of the data and information required by Condition XII.D and A.A.C. R18-2-310.01, that all reasonable and practicable measures within the Permittee's control were implemented to prevent the occurrence of the excess emissions.

### **XIII. RECORDKEEPING REQUIREMENTS**

[A.A.C. R18-2-306.A.4]

- A.** The Permittee shall keep records of all required monitoring information including, but not limited to, the following:
1. The date, place as defined in the permit, and time of sampling or measurements;
  2. The date(s) analyses were performed;
  3. The name of the company or entity that performed the analyses;
  4. A description of the analytical techniques or methods used;
  5. The results of such analyses; and
  6. The operating conditions as existing at the time of sampling or measurement.
- B.** The Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings or other data recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

### **XIV. REPORTING REQUIREMENTS**

[A.A.C. R18-2-306.A.5.a and b]

The Permittee shall submit the following reports:

- A.** Compliance certifications in accordance with Section VII.
- B.** Excess emission; permit deviation, and emergency reports in accordance with Section XII.
- C.** Other reports required by any condition of Attachment "B".

### **XV. DUTY TO PROVIDE INFORMATION**

[A.A.C. R18-2-304.H and -306.A.8.e]

- A.** The Permittee shall furnish to the Director, within a reasonable time, any information that the Director may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.

- B.** If the Permittee has failed to submit any relevant facts or has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

**XVI. PERMIT AMENDMENT OR REVISION**

[A.A.C. R18-2-317.01, -318, -319, and -320]

The Permittee shall apply for a permit amendment or revision for changes to the facility which does not qualify for a facility change without revision under Section XVII, as follows:

- A.** Facility Changes that Require a Permit Revision - Class II (A.A.C. R18-2-317.01);
- B.** Administrative Permit Amendment (A.A.C. R18-2-318);
- C.** Minor Permit Revision (A.A.C. R18-2-319); and
- D.** Significant Permit Revision (A.A.C. R18-2-320).
- E.** The applicability and requirements for such action are defined in the above referenced regulations.

**XVII. FACILITY CHANGE WITHOUT A PERMIT REVISION**

[A.A.C. R18-2-306.A.4 and -317.02]

- A.** Except for a physical change or change in the method of operation at a Class II source requiring a permit revision under A.A.C. R18-2-317.01, or a change subject to logging or notice requirements in Conditions XVII.B and XVII.C, a change at a Class II source shall not be subject to revision, notice, or logging requirements under this Section.
- B.** Except as otherwise provided in the conditions applicable to an emissions cap created under A.A.C. R18-2-306.02, the following changes may be made if the source keeps on site records of the changes according to Appendix 3 of the Arizona Administrative Code:
  - 1. Implementing an alternative operating scenario, including raw materials changes;
  - 2. Changing process equipment, operating procedures, or making any other physical change if the permit requires the change to be logged;
  - 3. Engaging in any new insignificant activity listed in A.A.C. R18-2-101.68 but not listed in the permit;
  - 4. Replacing an item of air pollution control equipment listed in the permit with an identical (same model, different serial number) item. The Director may require verification of efficiency of the new equipment by performance tests; and
  - 5. A change that results in a decrease in actual emissions if the source wants to claim credit for the decrease in determining whether the source has a net emissions increase for any purpose. The logged information shall include a description of the change that will produce the decrease in actual emissions. A decrease that has

not been logged is creditable only if the decrease is quantifiable, enforceable, and otherwise qualifies as a creditable decrease.

- C.** Except as provided in the conditions applicable to an emissions cap created under A.A.C. R18-2-306.02, the following changes may be made if the source provides written notice to the Department in advance of the change as provided below:
1. Replacing an item of air pollution control equipment listed in the permit with one that is not identical but that is substantially similar and has the same or better pollutant removal efficiency: 7 days. The Director may require verification of efficiency of the new equipment by performance tests;
  2. A physical change or change in the method of operation that increases actual emissions more than 10% of the major source threshold for any conventional pollutant but does not require a permit revision: 7 days;
  3. Replacing an item of air pollution control equipment listed in the permit with one that is not substantially similar but that has the same or better efficiency: 30 days. The Director may require verification of efficiency of the new equipment by performance tests;
  4. A change that would trigger an applicable requirement that already exists in the permit: 30 days unless otherwise required by the applicable requirement;
  5. A change that amounts to reconstruction of the source or an affected facility: 7 days. For the purposes of this subsection, reconstruction of a source or an affected facility shall be presumed if the fixed capital cost of the new components exceeds 50% of the fixed capital cost of a comparable entirely new source or affected facility and the changes to the components have occurred over the 12 consecutive months beginning with commencement of construction; and
  6. A change that will result in the emissions of a new regulated air pollutant above an applicable regulatory threshold but that does not trigger a new applicable requirement for that source category: 30 days. For purposes of this requirement, an applicable regulatory threshold for a conventional air pollutant shall be 10% of the applicable major source threshold for that pollutant.
- D.** For each change under Condition XVII.C, the written notice shall be by certified mail or hand delivery and shall be received by the Director the minimum amount of time in advance of the change. Notifications of changes associated with emergency conditions, such as malfunctions necessitating the replacement of equipment, may be provided with less than required notice, but must be provided as far in advance of the change, or if advance notification is not practicable, as soon after the change as possible. The written notice shall include:
1. When the proposed change will occur;
  2. A description of the change;
  3. Any change in emissions of regulated air pollutants; and

4. Any permit term or condition that is no longer applicable as a result of the change.
- E.** A source may implement any change in Condition XVII.C without the required notice by applying for a minor permit revision under A.A.C. R18-2-319.
- F.** The permit shield described in A.A.C. R18-2-325 shall not apply to any change made under this Section, other than implementation of an alternate operating scenario under Condition XVII.B.1.
- G.** Notwithstanding any other part of this Section, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the same source under this Section over the term of the permit, constitutes a change under subsection A.A.C. R18-2-317.01.A.
- H.** If a source change is described under both Conditions XVII.B and C, the source shall comply with Condition XVII.C. If a source change is described under both Condition XVII.C and A.A.C. R18-2-317.01.B, the source shall comply with A.A.C. R18-2-317.01.B.
- I.** A copy of all logs required under Condition XVII.B shall be filed with the Director within 30 days after each anniversary of the permit issuance date. If no changes were made at the source requiring logging, a statement to that effect shall be filed instead.
- J.** Logging Requirements

[Arizona Administrative Code, Appendix 3]

  1. Each log entry required by a change under Condition XVII.B shall include at least the following information:
    - a. A description of the change, including:
      - (1) A description of any process change;
      - (2) A description of any equipment change, including both old and new equipment descriptions, model numbers, and serial numbers, or any other unique equipment ID number; and
      - (3) A description of any process material change.
    - b. The date and time that the change occurred.
    - c. The provision of A.A.C. R18-2-317.02.B that authorizes the change to be made with logging.
    - d. The date the entry was made and the first and last name of the person making the entry.
  2. Logs shall be kept for five (5) years from the date created. Logging shall be performed in indelible ink in a bound log book with sequentially number pages, or in any other form, including electronic format, approved by the Director.

## **XVIII. TESTING REQUIREMENTS**

[A.A.C. R18-2-312]

**A.** The Permittee shall conduct performance tests as specified in the permit and at such other times as may be required by the Director.

**B.** Operational Conditions during Performance Testing

Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the source. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction (as defined in A.A.C. R18-2-101) shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.

**C.** Performance Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual unless modified by the Director pursuant to A.A.C. R18-2-312.B.

**D.** Test Plan

At least 14 working days prior to performing a test, the Permittee shall submit a test plan to the Director in accordance with A.A.C. R18-2-312.B and the Arizona Testing Manual. This test plan must include the following:

1. Test duration;
2. Test location(s);
3. Test method(s); and
4. Source operation and other parameters that may affect test results.

**E.** Stack Sampling Facilities

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

1. Sampling ports adequate for test methods applicable to the facility;
2. Safe sampling platform(s);
3. Safe access to sampling platform(s); and
4. Utilities for sampling and testing equipment.

**F.** Interpretation of Final Results

Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable



standard, the arithmetic mean of the results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs is required to be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control, compliance may, upon the Director's approval, be determined using the arithmetic mean of the results of the other two runs. If the Director or the Director's designee is present, tests may only be stopped with the Director's or such designee's approval. If the Director or the Director's designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation, which demonstrates good cause, must be submitted.

**G.** Report of Final Test Results

A written report of the results of performance tests conducted pursuant to 40 CFR 63, shall be submitted to the Director within 60 days after the test is performed. A written report of the results of all other performance tests shall be submitted within 30 days after the test is performed, or as otherwise provided in the Arizona Testing Manual. All performance testing reports shall be submitted in accordance with the Arizona Testing Manual and A.A.C. R18-2-312.A.

**H.** Extension of Performance Test Deadline

For performance testing required under Condition XVIII.A above, the Permittee may request an extension to a performance test deadline due to a force majeure event as follows:

[A.A.C. R18-2-312.J]

1. If a force majeure event is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee shall notify the Director in writing as soon as practicable following the date the Permittee first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline. The notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall be given as soon as practicable.

[A.A.C. R18-2-312.J.1]

2. The Permittee shall provide to the Director a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure event occurs.

[A.A.C. R18-2-312.J.2]

3. The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Director. The Director shall notify

the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable.

[A.A.C. R18-2-312.J.3]

4. Until an extension of the performance test deadline has been approved by the Director under subsections XVIII.H.1, 2, and 3 of this Condition, the Permittee remains subject to the requirements of Condition XVIII.

[A.A.C. R18-2-312.J.4]

5. For purposes of this Condition, a “force majeure event” means an event that will be or has been caused by circumstances beyond the control of the Permittee, its contractors, or any entity controlled by the Permittee that prevents it from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite the Permittee's best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the Permittee.

[A.A.C. R18-2-312.J.5]

#### **XIX. PROPERTY RIGHTS**

[A.A.C. R18-2-306.A.8.d]

This permit does not convey any property rights of any sort, or any exclusive privilege.

#### **XX. SEVERABILITY CLAUSE**

[A.A.C. R18-2-306.A.7]

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force.

#### **XXI. PERMIT SHIELD**

[A.A.C. R18-2-325]

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements identified in the portions of this permit subtitled “Permit Shield”. The permit shield shall not apply to any minor revisions pursuant to Condition XVI.B of this Attachment and any facility changes without a permit revision pursuant to Section XVII of this Attachment.

#### **XXII. PROTECTION OF STRATOSPHERIC OZONE**

[40 CFR Part 82]

If this source becomes subject to the provisions of 40 CFR Part 82, then the Permittee shall comply with these provisions accordingly.

#### **XXIII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS**

[40 CFR Part 60 and Part 63]

For all equipment subject to a New Source Performance Standard or a National Emission Standard for Hazardous Air Pollutants, the Permittee shall comply with all applicable requirements contained in Subpart A of Title 40, Chapter 60 and Chapter 63 of the Code of Federal Regulation.

**ATTACHMENT "B": SPECIFIC CONDITIONS**

**I. FACILITY-WIDE REQUIREMENTS**

**A. Opacity**

**1. Instantaneous Surveys and Six-Minute Observations**

**a. Instantaneous Surveys**

Any instantaneous survey required by this permit shall be determined by either option listed in Conditions I.A.1.a(1) and (2)

**(1) Alternative Method ALT-082 (Digital Camera Operating Technique)**

**(a)** The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

**(b)** The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

[A.A.C. R18-2-311.b]

**(2) EPA Reference Method 9 Certified Observer.**

[A.A.C. R18-2-306.A.3.c]

**b. Six-Minute Observations**

Any six-minute observation required by this permit shall be determined by either option listed in Conditions I.A.1.b(1) and (2)

**(1) Alternative Method ALT-082 (Digital Camera Operating Technique)**

**(a)** The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

**(b)** The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

[A.A.C. R18-2-311.b]

**(2) EPA Reference Method 9.**

**c.** The Permittee shall have on site or on call a person certified in EPA Reference Method 9 unless all 6-minute Method 9 observations required by this permit are conducted as a 6-minute Alternative Method-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous Alt-082 camera survey. Any 6-minute Method 9 observation required by this permit can be conducted as a 6-minute Alternative Method-082 and any

instantaneous visual survey required by this permit can be conducted as an instantaneous Alt-082 camera survey.

[A.A.C. R18-2-306.A.3.c]

2. Monitoring, Recordkeeping, and Reporting Requirements

- a. At the frequency specified in the following sections of this permit, the Permittee shall conduct an instantaneous survey of visible emissions from both process stack sources, when in operation, and fugitive dust sources.
- b. If the plume on an instantaneous basis appears less than or equal to the applicable opacity standard, then the Permittee shall keep a record of the name of the observer, the date on which the instantaneous survey was made, and the results of the instantaneous survey.
- c. If the plume on an instantaneous basis appears greater than the applicable opacity standard, then the Permittee shall immediately conduct a six-minute observation of the plume.
  - (1) If the six-minute observation of the plume is less than or equal to the applicable opacity standard, then the Permittee shall record the name of the observer, the date on which the six-minute observation was made, and the results of the six-minute observation.
  - (2) If the six-minute observation of the plume is greater than the applicable opacity standard, then the Permittee shall do the following:
    - (a) Adjust or repair the controls or equipment to reduce opacity to less than or equal to the opacity standard;
    - (b) Record the name of the observer, the date on which the six-minute observation was made, the results of the six-minute observation, and all corrective action taken; and
    - (c) Report the event as an excess emission for opacity in accordance with Condition XII.A of Attachment "A".
    - (d) Conduct another six-minute observation to document the effectiveness of the adjustments or repairs completed.

[A.A.C. R18-2-306.A.3.c]

**B.** Reporting Requirements

1. Deviations from the following Attachment "B" permit conditions shall be promptly reported in accordance with Condition XII.B.2 of Attachment "A":
  - a. Condition II.C.3.a(1)
  - b. Condition II.C.3.b(1)

c. Condition II.C.3.c(1)

d. Condition II.C.3.d(1)

[A.A.C. R18-2-306.A.5.b]

## II. SMALL ARMS MANUFACTURING

### A. Applicability

This Section applies to all equipment listed in Attachment “C” except the fuel burning equipment (identified in Section III below) and the emergency generators (Sections IV and V below).

### B. Operational Requirements

1. The Permittee shall not emit gaseous or odorous materials from equipment, operations, or premises under the Permittee’s control in such quantities or concentrations as to cause air pollution.

[A.A.C. R18-2-730.D]

2. Materials including solvents or other volatile compounds, paints, acids, alkalis, pesticides, fertilizers, and manure shall be processed, stored, used and transported in such a manner and by such means that they will not evaporate, leak, escape, or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage, or discharge, the installation and use of such control methods, devices, or equipment shall be mandatory.

[A.A.C. R18-2-730.F]

3. Where a stack, vent, or other outlet is at such a level that fumes, gas mist, odor, smoke, vapor, or any combination thereof constituting air pollution is discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet by the owner or operator thereof to a degree that will adequately dilute, reduce, or eliminate the discharge of air pollution to the adjoining property.

[A.A.C. R18-2-730.G]

4. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-730.D, A.A.C. R18-2-730.F and A.A.C. R18-2-730.G.

[A.A.C. R18-2-325]

### C. Particulate Matter and Opacity

1. Emission Limitations and Standards

a. The Permittee shall not cause or permit the discharge of particulate matter into the atmosphere in any 1 hour from any small arms manufacturing

source in total quantities in excess of the amounts calculated by the following equation:

$$E = 4.10P^{0.67}$$

where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

P = the process weight rate in tons-mass per hour

[A.A.C. R18-2-730.A.1.a]

- b. For purposes of this Section, the total process weight from all similar units employing a similar type process shall be used in determining the maximum allowable emission of particulate matter.

[A.A.C. R18-2-730.B]

- c. The opacity of any plume or effluent from any small arms manufacturing source shall not be greater than 20%, as determined by EPA Reference Method 9. If the presence of uncombined water is the only reason for an exceedance of any visible emissions requirement, the exceedance shall not constitute a violation of the applicable opacity limit.

[A.A.C. R18-2-702.B.3 and -702.C]

2. Monitoring, Recordkeeping, and Reporting Requirements

[A.A.C. R18-2-306.A.3.c, -306.A.4, and -306.A.5]

- a. The permittee shall conduct a monthly opacity survey in accordance with Condition I.A.2 of Attachment B.

3. Air Pollution Control Requirements

- a. Dust Collectors for Grinding, Sanding, and Polishing Operations (Equipment ID Numbers 567, 2401, 20259, 20264, 20463 and TBD for Hydrotron connected to Stack TC1)

- (1) *The Permittee shall, to the extent practicable, operate and maintain the six (6) dust collectors, connected to Stacks 110, GD10, P1, P2 and TC1, to control particulate matter emissions from the grinding, sanding, and polishing operations in a manner consistent with good air pollution control practices.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

- (2) *The Permittee shall operate the grinding, sanding, and polishing operations process equipment in such a manner that the exhaust air does not bypass the six (6) dust collectors and is not directly vented to the atmosphere.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

b. Dust Collectors for Gun Ranges (Equipment ID Numbers 9225, 20304 and 20301)

- (1) *The Permittee shall, to the extent practicable, operate and maintain the three (3) dust collectors, connected to Stacks GD1, GD5 and GD12, to control particulate matter emissions from the two (2) gun ranges in a manner consistent with good air pollution control practices.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

- (2) *The Permittee shall operate the two (2) gun ranges in such a manner that the exhaust air does not bypass the three (3) dust collectors and is not directly vented to the atmosphere.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

- (3) Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-702.B.3, A.A.C. R18-2-702.C, A.A.C. R18-2-730.A.1.a, and A.A.C. R18-2-730.B.

[A.A.C. R18-2-325]

c. Dust Collector for Abrasive Blasting Operations (Equipment ID Number 20290, 20457 and 9852)

- (1) *The Permittee shall, to the extent practicable, operate and maintain the dust collectors, connected to Stacks GD6, GD15 and AB1, to control particulate matter emissions from the Abrasive Blasting Operations (Equipment ID Number 20290, 20456, 5006, 9861 and 5004) in a manner consistent with good air pollution control practice.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

- (2) *The Permittee shall operate the Abrasive Blasting units in such a manner that the exhaust air does not bypass the dust collectors and is not directly vented to the atmosphere.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

d. Salt Bath Dust Collector for Heat Treat (Equipment ID Number 20395)

- (1) *The Permittee shall operate and maintain the salt collector, connected to Stack GD13, to control particulate matter emissions from the Heat Treating Operations (Equipment ID Number 9729, 1371 and 20437) in a manner consistent with good air pollution control practice.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

- (2) *The Permittee shall operate the Heat Treating units in such a manner that the exhaust air does not bypass the salt collector and is not directly vented to the atmosphere.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

**D. Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs)**

1. Air Pollution Control Requirements

- a. Automated Bluing Fume Scrubber for Bluing Operation (Equipment ID Number 20285)

- (1) *The Permittee shall operate and maintain the fume scrubber, connected to Stack GD11, to control VOCs and HAPs emissions from the bluing process operations in a manner consistent with good air pollution control practices.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

- (2) *The Permittee shall operate the bluing operations process equipment in such a manner that the exhaust air does not bypass the fume scrubber and is not directly vented to the atmosphere.*

[A.A.C. R-18-2-306.01 and -331.A.3.e]

[Material Permit Condition is indicated by underline and italics]

**III. FUEL BURNING EQUIPMENT**

**A. Applicability**

This Section applies to the Boilers, Col Met Oven, Carburizing Furnaces, Tempering Furnace, Endo Gas Generator and the Comfort Heaters listed in Attachment "C".

**B. Fuel Limitations**

The Permittee shall only burn natural gas in the fuel burning equipment listed above.

[A.A.C. R18-2-306.A.2]

**C. Particulate Matter and Opacity**

1. Emissions Limitations and Standards

- a. The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from any fuel-burning operation into the atmosphere in excess of the amounts calculated by the following equation:

$$E = 1.02Q^{0.769}$$



Where

E = the maximum allowable particulate emission rate in pounds-mass per hour

Q = the heat input in million Btu per hour [A.A.C. R18-2-724.C.1]

b. For purposes of this Section, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. The total heat input of all fuel-burning units on a plant or premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

[A.A.C. R18-2-724.B]

c. The Permittee shall not cause, allow or permit the opacity of any plume or effluent from the fuel burning equipment listed above to exceed 15%.

[A.A.C. R18-2-724.J]

2. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-724.B, A.A.C R18-2-724.C.1, and A.A.C R18-2-724.J.

[A.A.C. R18-2-325]

**IV. EXISTING EMERGENCY COMPRESSION IGNITION ENGINE**

**A. Applicability**

This section applies to the 1818 HP Caterpillar Generator listed in Attachment “C”.

**B. Fuel Limitations**

1. The Permittee shall only fire diesel fuel in the internal combustion engines.

[A.A.C. R18-2-306.A.2]

2. The diesel fuel shall not contain 0.90% or more by weight of sulfur.

[A.A.C. R18-2-701.20, 719.H]

3. Permit Shield

Compliance with the Conditions of this Subsection shall be deemed compliance with A.A.C. R18-2-719.H.

[A.A.C. R18-2-325]

**C. Particulate Matter and Opacity**

1. Emission Limitations and Standards

a. The Permittee shall not cause or allow to be discharged into the atmosphere from any engine particulate matter in excess of the amount calculated by the following equation:

[A.A.C. R18-2-719.C.1]

$$E = 1.02 Q^{0.769}$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

Q = the heat input in million Btu per hour

- b. For the purposes of the calculations required in Condition IV.C.1.a above, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. The total heat input of all operating fuel-burning units at a plant or premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

[A.A.C. R18-2-719.B]

- c. The Permittee shall not cause, allow or permit to be emitted into the atmosphere from any engine, smoke for any period greater than 10 consecutive seconds which exceeds 40% opacity. Visible emissions when starting cold equipment shall be exempt from this requirement for the first 10 minutes.

[A.A.C. R18-2-719.E]

2. Permit Shield

Compliance with the conditions of this Subsection shall be deemed compliance with A.A.C. R18-2-719.B, 719.C.1 and 719.E.

[A.A.C. R18-2-325]

**D. Sulfur Dioxide**

1. Emission Limitations and Standards

The Permittee shall not emit or cause to emit more than 1.0 pound of sulfur dioxide per million Btu heat input for any engine.

[A.A.C. R18-2-719.F]

2. The Permittee shall comply with the emission standards in Condition IV.D.1 by using ultra low sulfur diesel fuel.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the conditions of this Subsection shall be deemed compliance with A.A.C. R18-2-719.F.

[A.A.C. R18-2-325]

**E. Hazardous Air Pollutants**

1. General Requirements

- a. The Permittee shall operate and maintain at all times the engine including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

[40 CFR 63.6605(b)]

- b. The Permittee shall minimize the engine time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in shall apply.

[40 CFR 63.6625(h)]

- c. For emergency engines or engines less than 300 HP, the Permittee shall operate and maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 63.6625(e)]

2. Requirements for Emergency engines

- a. The Permittee shall comply with the following operation and maintenance requirements:

[40 CFR 63.6603, 63.6625(i) and 40 CFR 63, Subpart ZZZZ, Table 2d]

- (1) The Permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first. If the Permittee prefers to extend the oil change requirement, an oil analysis program shall be completed. The oil analysis must be performed at the same frequency specified for changing the oil. The Permittee shall at a minimum analyze the following three parameters: Total Base Number, viscosity and water content. The condemning limits for these parameters are as follows:

- (a) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;
- (b) Viscosity: changed more than 20 percent from the viscosity of oil when new; and
- (c) Water Content: greater than 0.5 percent by volume.

If all of the above limits are not exceeded, the Permittee is not required to change the oil. If any of the above limits are exceeded, the Permittee shall change the oil within 2 business days of receiving the results of the analysis or before commencing operation, whichever is later.

Records shall be kept of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the operation of the engine.

- (2) The Permittee shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
  - (3) The Permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- b. If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Conditions IV.E.2.a(1) through IV.E.2.a(3), or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated.  
[40 CFR 63, Subpart ZZZZ, Table 2d]
- c. The Permittee shall operate the emergency engines according to the requirements in Conditions IV.E.2.c(1) through IV.E.2.c(3).  
[40 CFR 60.6640(f)]
- (1) There is no time limit on the use of emergency engine in emergency situations.
  - (2) The Permittee may operate the emergency engine for the purpose of maintenance checks and readiness testing for a maximum of 100 hours per calendar year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. The Permittee may petition the Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.
  - (3) The Permittee may operate an emergency engine for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing.

- d. *The Permittee shall install a non-resettable hour meter if one is not already installed.*

[40 CFR 63.6625(f), R18-2-331.A.3.c]

[Material Permit Conditions are indicated by underline and italics]

3. Recordkeeping Requirements

- a. For emergency engines, the Permittee shall keep records of the hours of operation of the RICE that is recorded through the non-resettable hour meter. Records shall include the date, start and stop times, hours spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 CFR 63.6655(f)]

- b. For emergency engines, and engines less than or equal to 300 HP,

- (1) The Permittee shall keep records of the parameters that are analyzed and the results of the oil analysis, if any, and the oil changes for the engine.

[40 CFR 63.6625(i)]

- (2) The Permittee shall keep records of the maintenance conducted on the engine in order to demonstrate that the engine and after-treatment control device (if any) were operated and maintained in accordance with the Permittee's maintenance plan.

[40 CFR 63.6655(e)]

- c. The Permittee shall keep the records to show continuous compliance with each emission or operating limitation.

[40 CFR 63.6655(d)]

- d. The Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

[40 CFR 63.6660(a)-(c)]

4. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with 63.6603(a), 63.6604(a), 63.6605(b), 63.6612(a), 63.6615, 63.6625(a), 63.6625(b), 63.6625(e), 63.6625(f), 63.6625(g), 63.6625(h), 63.6625(i), 63.6630(a), 63.6640(a), 63.6640(f), 63.6645(a), 63.6645(g), 63.6645(h), 63.6650(a) through (e), 63.6655(a), 63.6655(b), 63.6655(d), 63.6655(e), and 63.6655(f)

[A.A.C. R18-2-325]

**V. REQUIREMENTS FOR ENGINES SUBJECT TO NSPS SUBPART III**

**A. Applicability**

This Section applies to the Generac SD035 Emergency Generator

**B. Operating Requirements**

1. *The Permittee shall install a non-resettable hour meter prior to startup of the engine*

[40 CFR 60.4209(a), R18-2-306.A.3, -331.A.3.c]  
[Material Permit Conditions are indicated by underline and italics]

2. The Permittee may operate the stationary ICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine.

[40 CFR 60.4211(f)]

3. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The Permittee may petition the Administrator and the Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. The Permittee may operate the emergency stationary ICE for up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.

[40 CFR 60.4211(f)]

4. Operation of the CI ICE other than emergency operation, maintenance and testing, and operation in non-emergency situations shall not exceed 50 hours per year.

[40 CF 60.4211(f)]

5. The Permittee shall operate and maintain the CI ICE and the control device according to the manufacturer's written instructions, over the entire life of the engine.

[40 CFR 60.4211(a), 60.4206 and A.A.C. R18-2-306.A.3]

6. The Permittee shall only change those engine settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)]

7. The Permittee shall meet the applicable requirements of 40 CFR Part 89, 94 and 1068.

[40 CFR 60.4211(a)]

8. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4209(a), §60.4211(f), 40 CFR 60.4211(a) and 60.4206.

[A.A.C. R18-2-325]

**C. Fuel Requirements**

1. The Permittee operating a stationary CI ICE shall use diesel fuel that meets the requirements of non-road diesel fuel listed in 40 CFR 80.510(b) and listed below:

- a. Sulfur content: 15 ppm maximum; and

- b. A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b)]

**D. Emission Limitations and Standards**

- 1. The Permittee operating a new, modified or reconstructed emergency CI ICE shall comply with the emission standards listed in the corresponding applicable regulations for the same model year and cylinder displacement as stated in Table 2 below:

*Table 1: Emission Standards for Emergency CI ICE's*

Engine Type	Model Year	Displacement (Liters per cylinder)	Applicable regulations
Non-Fire Pump Engines	Pre-2007	Less than 10	Table 1 of 40 CFR Part 60 Subpart III
	2007 and Later	Less than 30	New Non-road engines in 40 CFR 60.4202
Fire Pump	All	Less than 30	Table 4 of 40 CFR Part 60 Subpart III

- 2. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4205(a), §60.4205(b), §60.4205(f), and §60.4205(c).

[A.A.C. R18-2-325]

**E. Air Pollution Control Requirements**

*If the engine is equipped with a diesel particulate filter, the Permittee shall install, operate and maintain the particulate filter in accordance with good air pollution control practices for minimizing emissions.*

[A.A.C. R18-2-306.01 and -331.a.3.d and e]

[Material permit conditions are indicated by underline and italics]

**F. Compliance Requirements**

- 1. 2007 and later Year Stationary CI ICE

The Permittee operating a 2007 model year and later stationary CI ICE or a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in Table 3 of 40 CFR Part 60, Subpart III, shall comply by purchasing an engine certified to the emission standards in §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.

[40 CFR 60.4211 (c)]

2. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4211(b), §60.4211(c), §60.4211(e), §60.4211(g) and §60.4205(e).

[A.A.C.R18-2-325]

**G. Monitoring and Recordkeeping**

1. Starting with model years in Table 5 of 40 CFR 60 Subpart IIII, the Permittee operating an emergency ICE that does not meet the standards applicable to non-emergency engines in the applicable model year, shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter.

2. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

3. The Permittee shall maintain a copy of engine certifications or other documentation demonstrating that each engine complies with the applicable standards in this Permit, and shall make the documentation available to ADEQ upon request.

[A.A.C. R18-2-306.A.4]

4. Permit Shield

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4214(b).

**VI. FUGITIVE DUST REQUIREMENTS**

**A. Applicability**

This Section applies to any non-point source of fugitive dust in the facility.

**B. Particulate Matter and Opacity**

Open Areas, Roadways & Streets, Storage Piles, and Material Handling

1. Emission Limitations/Standards

a. Opacity of emissions from any fugitive dust non-point source shall not be greater than 40%.

[A.A.C. R18-2-614]

b. The Permittee shall employ the following reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne:

(1) Keep dust and other types of air contaminants to a minimum in an open area where construction operations, repair operations, demolition activities, clearing operations, leveling operations, or any earth moving or excavating activities are taking place, by



good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means;

[A.A.C. R18-2-604.A]

- (2) Keep dust to a minimum from driveways, parking areas, and vacant lots where motor vehicular activity occurs by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means;

[A.A.C. R18-2-604.B]

- (3) Keep dust and other particulates to a minimum by employing dust suppressants, temporary paving, detouring, wetting down or by other reasonable means when a roadway is repaired, constructed, or reconstructed;

[A.A.C. R18-2-605.A]

- (4) Take reasonable precautions, such as wetting, applying dust suppressants, or covering the load when transporting material likely to give rise to airborne dust;

[A.A.C. R18-2-605.B]

- (5) Take reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods when crushing, handling, or conveying material likely to give rise to airborne dust;

[A.A.C. R18-2-606]

- (6) Take reasonable precautions such as chemical stabilization, wetting, or covering when organic or inorganic dust producing material is being stacked, piled, or otherwise stored;

[A.A.C. R18-2-607.A]

- (7) Operate stacking and reclaiming machinery utilized at storage piles at all times with a minimum fall of material, or with the use of spray bars and wetting agents;

[A.A.C. R18-2-607.B]

- (8) Any other method as proposed by the Permittee and approved by the Director.

[A.A.C. R18-2-306.A.3.c]

- (9) Operate mineral tailings piles by taking reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne. Reasonable precautions shall mean wetting, chemical stabilization, revegetation or such other measures as are approved by the Director.

[A.A.C. R18-2-608]

- (10) The Permittee shall take reasonable precautions, such as the use of dust suppressants, before the cleaning of a site, roadway, or alley. Earth or other material shall be removed from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water or by other means.

[A.A.C. R18-2-804.B]

2. Air Pollution Control Requirements

Haul Roads and Storage Piles

*Water, or an equivalent control, shall be used to control visible emissions from haul roads and storage piles.*

[A.A.C. R18-2-306.A.2 and -331.A.3.d]

[Material Permit Condition is indicated by underline and italics]

3. Monitoring and Recordkeeping Requirements

- a. The Permittee shall maintain records of the dates on which any of the activities listed in Condition VI.B.1.b above were performed and the control measures that were adopted.

[A.A.C. R18-2-306.A.3.c]

- b. Opacity Monitoring Requirements

Each month, the Permittee shall monitor visible emissions from fugitive sources in accordance with Condition I.A.

[A.A.C. R18-2-306.A.3.c]

4. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with A.A.C. R18-2-604, -605, -606, 607, -608, -614, and -804.B.

**VII. OTHER PERIODIC ACTIVITIES**

**A. Abrasive Blasting**

1. Particulate Matter and Opacity

a. Emission Limitations/Standards

- (1) The Permittee shall not cause or allow sandblasting or other abrasive blasting without minimizing dust emissions to the atmosphere through the use of good modern practices. Good modern practices include:
- (2) Wet blasting;
- (3) Effective enclosures with necessary dust collecting equipment; or

- (4) Any other method approved by the Director. [A.A.C. R18-2-726]

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from sandblasting or other abrasive blasting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirement

Each time an abrasive blasting project is conducted, the Permittee shall make a record of the following:

- a. The date the project was conducted;  
b. The duration of the project; and  
c. Type of control measures employed.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with this Section shall be deemed compliance with A.A.C. R18-2-702.B.3 and -726.

[A.A.C.R18-2-325]

**B.** Use of Paints

1. Volatile Organic Compounds

a. Emission Limitations/Standards

- (1) While performing spray painting operations, the Permittee shall comply with the following requirements:

- (2) The Permittee shall not conduct or cause to be conducted any spray painting operation without minimizing organic solvent emissions. Such operations, other than architectural coating and spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray.

[A.A.C.R18-2-727.A]

- (3) The Permittee or their designated contractor shall not either:

- (a) Employ, apply, evaporate, or dry any architectural coating containing photochemically reactive solvents for industrial or commercial purposes; or

- (b) Thin or dilute any architectural coating with a photochemically reactive solvent.  
[A.A.C.R18-2-727.B]
- (4) For the purposes of Condition VII.B.1.a(2), a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in Condition VII.B.1.a(3), or which exceeds any of the following percentage composition limitations, referred to the total volume of solvent:
- (a) A combination of the following types of compounds having an olefinic or cyclo-olefinic type of unsaturation-hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones: 5 percent.
- (b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.
- (c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.  
[A.A.C.R18-2-727.C]
- (5) Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the groups of organic compounds described in Condition VII.B.1.a(3), it shall be considered to be a member of the group having the least allowable percent of the total volume of solvents.  
[A.A.C.R18-2-727.D]
- b. Monitoring and Recordkeeping Requirements
- (1) Each time a spray painting project is conducted, the Permittee shall make a record of the following:
- (a) The date the project was conducted;
- (b) The duration of the project;
- (c) Type of control measures employed;
- (d) Safety Data Sheets (SDS) for all paints and solvents used in the project; and
- (e) The amount of paint consumed during the project.
- (2) Architectural coating and spot painting projects shall be exempt from the recordkeeping requirements of Condition VII.B.1.b(1).

[A.A.C. R18-2-306.A.3.c]

c. Permit Shield

- (1) Compliance with this Section shall be deemed compliance with A.A.C.R18-2-727.

[A.A.C.R18-2-325]

2. Opacity

a. Emission Limitation/Standard

The Permittee shall not cause, allow or permit visible emissions from painting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

b. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with A.A.C.R18-2-702.B.3.

[A.A.C. R18-2-325]

C. Demolition/Renovation - Hazardous Air Pollutants

1. Emission Limitation/Standard

The Permittee shall comply with all of the requirements of 40 CFR 61 Subpart M (National Emissions Standards for Hazardous Air Pollutants - Asbestos).

[A.A.C. R18-2-1101.A.12]

2. Monitoring and Recordkeeping Requirement

The Permittee shall keep all required records in a file. The required records shall include the “NESHAP Notification for Renovation and Demolition Activities” form and all supporting documents.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the conditions of this Section shall be deemed compliance with A.A.C. R18-2-1101.A.12.

[A.A.C. R18-2-325]

**ATTACHMENT “C”: EQUIPMENT LIST**

<b>EQUIPMENT TYPE</b>	<b>MAX. CAPACITY</b>	<b>MAKE</b>	<b>MODEL</b>	<b>SERIAL NUMBER</b>	<b>DATE OF MFG.</b>	<b>Equipment ID Number</b>	<b>Stack ID</b>
Downdraft Table	1250 CFM	Micro Air Systems	XA23	NA	2016	20354	110
Downdraft Table	1250 CFM	Micro Air Systems	XA23	NA	2016	20355	110
Downdraft Table	1250 CFM	Micro Air Systems	XA23	NA	2016	20356	110
Downdraft Table	1250 CFM	Micro Air Systems	XA23	NA	2016	20357	110
Downdraft Table	1250 CFM	Micro Air Systems	XA23	NA	2016	20358	110
Downdraft Table	1250 CFM	Micro Air Systems	XA23	NA	2016	20359	110
Hammond Flat Grinder	230 parts/hr	Hammond	VH-600-D	1104	NA	6002	110
Hammond Polishing Jack	230 parts/hr	Hammond	UBG-65-65	4189	NA	20139	110
Magazine Sander	550 parts/hr	Ruger	.22 Magazine Sander	6950 80B001	1990	5151	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5101	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5103	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5105	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5106	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5107	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5109	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	3940	NA	5110	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5111	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5112	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5115	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5117	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5118	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	3798	NA	5119	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5120	110

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	DATE OF MFG.	Equipment ID Number	Stack ID
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	NA	NA	5121	110
Polishing Jack - Abrasive Belt Grinder	230 parts/hr	Hammond	UBG-8-65	3939	NA	5124	110
Sanding Lathe	75 parts/hr	Kalamazoo Industries Inc.	BSG-8	413001	2013	9972	110
Sanding Lathe	75 parts/hr	Kalamazoo Industries Inc.	BSG-8	413002	2013	20031	110
Sanding Lathe	75 parts/hr	Kalamazoo Industries Inc.	BSG-8	413001	2013	20032	110
Wet Dust Collector	7500 CFM	UNI-WASH	UCBD-75	16306-B	Jun-96	567	110
Wet Dust Collector	15000 CFM	UNI-WASH	UC-150C	3220	Jul-90	2401	110
Diesel Tank	1500 Gallon	ISCO	NA	24Z07476	35339	930	Ambient
LC9 Paint Station	NA	NA	NA	NA	NA	NA	Ambient
Maintenance Spray paint	NA	NA	NA	NA	NA	NA	Ambient
Direct Fired Hot Water Boiler	1.4 MMBtu/Hr	Parker	T1460R	62130	2015	20282	B1
Direct Fired Hot Water Boiler	1.4 MMBtu/Hr	Parker	T1460R	62131	2015	20283	B2
Caterpillar Generator	1818 HP	Caterpillar	NA	24Z07476	1996	AHF0930	G1
Generac SD035 Generator Engine	56 HP	Iveco/FPT	1876740	9421331	2014	20281	G2
Dust Collector (R&D Range)	17670 CFM	Farr Air Pollution	Tenkay Mark III- 60L	84061024-2	NA	9225	GD1
R & D Gun Range	NA NA	NA	NA	NA	NA	NA	GD1
1911 Line Dust Collector	1000 CFM	Filter 1 Hydrotron	HWF-1-10-3-MO	14-300-31	2014	20259	GD10
Downdraft Table	300 parts/day	Downdraft	RDDDB-3036	NA	2015	20260	GD10
Hammond Polishing Jack	300 parts/day	Hammond	UBG-65-65	4192	NA	20214	GD10
Automated Bluing Fume Scrubber	5500 CFM	Met Pro Duall	FW303-45	3785	2015	20284	GD11
Bluing Station 10 - Water Tank	160 Gallon	CJI Process Systems	Custom	10130	2014	20285-10	GD11
Bluing Station 12 - Water Tank	150 Gallon	CJI Process Systems	Custom	10130	2014	20285-12	GD11
Bluing Station 13 - Water Tank	160 Gallon	CJI Process Systems	Custom	10130	2014	20285-13	GD11
Bluing Station 14 - Water Tank	150 Gallon	CJI Process Systems	Custom	10130	2014	20285-14	GD11
Bluing Station 16 - Black Oxide	240 Gallon	CJI Process Systems	Custom	10130	2014	20285-16	GD11

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	DATE OF MFG.	Equipment ID Number	Stack ID
Bluing Station 17 – Black Oxide	240 Gallon	CJI Process Systems	Custom	10130	2014	20285-17	GD11
Bluing Station 18 – Black Oxide	240 Gallon	CJI Process Systems	Custom	10130	2014	20285-18	GD11
Bluing Station 5 – Oil Finish	140 Gallon	CJI Process Systems	Custom	10130	2014	20285-5	GD11
Bluing Station 6 – Hot Oil	192 Gallon	CJI Process Systems	Custom	10130	2014	20285-6	GD11
Bluing Station 7 - Water Tank	157 Gallon	CJI Process Systems	Custom	10130	2014	20285-7	GD11
Bluing Station 8 - Cleaning	192 Gallon	CJI Process Systems	Custom	10130	2014	20285-8	GD11
Bluing Station 9 - Water Tank	150 Gallon	CJI Process Systems	Custom	10130	2014	20285-9	GD11
Bluing Station 15 - Water Tank	150 Gallon	CJI Process Systems	Custom	10130	2014	20285-15	GD11
Dust Collector (Production Range)	2540 CFM	Camfil Farr	GSC6	NA	2014	20301	GD12
S1 High Temp Salt Tank	NA	Ajax Electric	HCRE	5208-1	NA	9729	GD13
S2 High Temp Salt Tank	NA	Ajax Electric	HCRE	3827-A	NA	1371	GD13
S3 High Temp Salt Tank	NA	Ajax Electric	HCRE	5353-1	NA	20437	GD13
Salt Bath Dust Collector	3000 CFM	Camfil Farr	GS10	6092001	2017	20395	GD13
HCl Tank	34 Gallon	Process Technology	C-DE304	SN461068	2017	20469-3	GD14
Sodium hydroxide tank	34 Gallon	Process Technology	C-DE304	SN461068	2017	20469-6	GD14
Wheel Blast	800 CFM @ 10 HP	Gibson Abrasive Equipment	TB36 Dual Chamber Spinner Hanger	16K441-1295-2275	2017	20456	GD15
Wheel Blast Dust Collector	800 CFM	Camfil Farr	GS2	G19040001	2017	20457	GD15
Dust Collector (Production Range)	44500 Camfil Farr	Camfil Farr	GSC60	NA	2014	20304	GD5
Production gun range	NA NA	NA	NA	NA	NA	NA	GD5
Abrasive Blaster & Dust Collector	600 CFM	Clemco Industries	RPH-2-600	Z57926	42309	20290	GD6
Cerakote Paint Booth	7983 CFM	Standard Tools & Equipment Co.	EFB-1000	15110516906	42309	NA	GD7
Cerakote Mixing Station	142.9 CFM	Standard Tools & Equipment Co.	MR-1000	15110516806	42309	NA	GD8
Fab Shop Down Draft Table	1200 CFM	Peerless Electric	D11E	NA	NA	NA	GD9
Col Met Oven	0.385 MMBtu/hr	Col-MET	8050605BCPL	02-168307-1-1	2002	11198	HT1



<b>EQUIPMENT TYPE</b>	<b>MAX. CAPACITY</b>	<b>MAKE</b>	<b>MODEL</b>	<b>SERIAL NUMBER</b>	<b>DATE OF MFG.</b>	<b>Equipment ID Number</b>	<b>Stack ID</b>
Carburizing Furnace	0.37 MMBtu/hr	IPSEN	ATLAS T M	20.2174-10	2012	9886	HT2
Carburizing Furnace	0.37 MMBtu/hr	IPSEN	ATLAS T M	11410022	2/9/2014	20265	HT2
Electric Tempering Furnace w/ gas burner	100 mbar	Ipsen	D-M-E	20.2174-70	2012	9890	HT2
Electric Tempering Furnace w/ gas burner	100 mbar	Ipsen	D-M-E	20.4016-50	2014	20267	HT2
Endo Gas Generator	0.2 MMBtu/hr	IPSEN	G-1000G	20.2174-50	2012	9887	HT2
Endo Gas Generator	150 mbar	IPSEN	G-1000G	20.4016-40	2014	20266	HT2
Donaldson Torit Dust Collector	3400 CFM	Donaldson Torit	DFO 2-4	3804867	2016	9852	AB1
Abrasive Blast 1	600 lbs grit/day	Pressure Blast Mfg	DB-207	942578	NA	5006	AB1
Abrasive Blast 2	600 lbs grit/day	Pressure Blast Mfg	DB-207	120606-03	NA	9861	AB1
Abrasive Blast 3	600 lbs grit/day	Pressure Blast Mfg	DB-207	892450	NA	5004	AB1
Custom Ruger Down Draft Table	500 CFM	NA	NA	NA	2018	NA	P1
Polishing Jack – Abrasive Belt Grinder	500 CFM	Hammond	UBG-8-65	4169	NA	9762	P1
Polishing Jack – Abrasive Belt Grinder	500 CFM	Hammond	UBG-65-65	4187	NA	20436	P1
Wet Dust Collector	2000 CFM	Filter 1 Hydrotron	HWF-3-30-5-MO-C-VF	14-300-17-849	2014	20264	P1
Hammond Polishing Jack	700 CFM	Hammond	UBG-8-65	NA	NA	20475	P2
Hammond Polishing Jack	700 CFM	Hammond	UBG-8-65	NA	NA	20476	P2
MKIV Dust Collector	2000 CFM	Filter 1 Hydrotron	HWF-2-20-5-MO-VF-C	17-300-43-1058	2017	20463	P2
Broach Bar Grinder	200 CFM	K.O. Lee	B2060BB	15681EE	NA	9077	TC1
Dust Collector (Tool Crib)	1000 CFM	Filter 1 Hydrotron	GS6	NA	NA	NA	TC1
Relief Grinder	200 CFM	Hybco	2100-SB	RF-1650	NA	9079	TC1
Tool Grinder	200 CFM	Promach	Unoset	798243	1998	9050	TC1
Tool Grinder	200 CFM	Morgan Denver	89 Monoset	Rebuild	NA	9075	TC1
Comfort Heaters	13.66 MMBtu/Hr. (Cumulative for all heaters)	Various	Various	Various	Various	Various	CH