



## Bureau of Air Pollution Control

901 SOUTH STEWART STREET SUITE 4001

CARSON CITY, NEVADA 89701-5249

p: 775-687-9349 • [ndep.nv.gov/air](http://ndep.nv.gov/air)

**Facility ID No. A1056**

**Permit No. AP3443-2616.03**

### CLASS II AIR QUALITY OPERATING PERMIT

**Issued to:** CHART, INC. (HEREINAFTER REFERRED TO AS PERMITTEE)

**Mailing Address:** 1995 PERU DRIVE, MCCARRAN, NV 89437

**Physical Address:** 1995 PERU DRIVE, MCCARRAN, NV 89437

**Driving Directions:** FROM MCCARRAN, NV, TAKE I-80 TO EXIT 32. TURN RIGHT ONTO NV-349 AND GO 1.2 MILES. TURN RIGHT ONTO DENMARK DRIVE AND GO 0.2 MILES. TURN LEFT ONTO PERU DRIVE AND GO 0.4 MILES TO THE FACILITY.

**General Facility Location:** SECTIONS 2, 3, 10 AND 11, T 19 N, R 22 E, MDB&M  
HA 83 – TRACY SEGMENT / STOREY COUNTY  
NORTH 4,379,000 M, EAST 286,147 M, UTM ZONE 11, NAD 83

#### Emission Unit List:

##### A. System 01 – Paint Booth and Solvent Use (Revised August 2025, – Air Case 12455)

S2.001 Paint Spray Booth

~~S2.002 Facility Wide Solvent Use (Removed August 2025 - Air Case 12455)~~

##### B. System 02 – Blast Booth (Revised August 2025, - Air Case 12455)

S2.003 Abrasive Blast Booth

##### C. System 03 – Small Blast Cabinet (Revised August 2025, – Air Case 12455)

S2.004 Small Abrasive Blast Cabinet

##### D. System 04 – Dry Polishing (Revised August 2025, – Air Case 12455)

S2.005 Automated Polisher/Buffer

##### E. System 05 – Welding (Revised August 2025, – Air Case 12455)

PF1.001 Welder 1

PF1.002 Welder 2

PF1.003 Welder 3

PF1.004 Welder 4

PF1.005 Welder 5

PF1.006 Welder 6

PF1.007 Welder 7

PF1.008 Welder 8

PF1.009 Welder 9

PF1.010 Welder 10

PF1.011 Welder 11

PF1.012 Welder 12

PF1.013 Welder 13

PF1.014 Welder 14

PF1.015 Welder 15

PF1.016 Welder 16

PF1.017 Welder 17

PF1.018 Welder 18

PF1.019 Welder 19

PF1.020 Welder 20

PF1.021 Welder 21

PF1.022 Welder 22

PF1.023 Welder 23



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**\*\*\*\*End of Emission Unit List\*\*\*\***

DRAFT



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**CLASS II AIR QUALITY OPERATING PERMIT**

**Issued to:** CHART, INC. – MCCARRAN FACILITY (AS PERMITTEE)

**Section I. General Provisions**

**A. Prohibited acts; penalty; establishment of violation; request for prosecution (NRS 445B.470) (*State Only Requirement*)**

1. A person shall not knowingly:
  - a. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information;
  - b. Fail to pay any fee;
  - c. Falsify any material statement, representation or certification in any notice or report; or
  - d. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions.
2. Any person who violates any provision of subsection 1 shall be punished by a fine of not more than \$10,000 for each day of the violation.
3. The burden of proof and degree of knowledge required to establish a violation of subsection 1 are the same as those required by 42 U.S.C. § 7413(c), as that section existed on October 1, 1993.
4. If, in the judgment of the Director of the Department or the Director's designee, any person is engaged in any act or practice which constitutes a criminal offense pursuant to NRS 445B.100 to 445B.640, inclusive, the Director of the Department or the designee may request that the Attorney General or the district attorney of the county in which the criminal offense is alleged to have occurred institute by indictment or information a criminal prosecution of the person.
5. If, in the judgment of the control officer of a local air pollution control board, any person is engaged in such an act or practice, the control officer may request that the district attorney of the county in which the criminal offense is alleged to have occurred institute by indictment or information a criminal prosecution of the person.

**B. Visible emissions: Maximum opacity; determination and monitoring of opacity (NAC 445B.22017) (*Federally Enforceable SIP Requirement*)**

1. Except as otherwise provided in this section and NAC 445B.2202, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:
  - a. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A of 40 CFR Part 60.
  - b. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 CFR 60.13(h).
2. The provisions of this section and NAC 445B.2202 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.
3. If the provisions of 40 CFR Part 60, Subpart D or Da apply to an emission unit, the emission unit must be allowed one 6-minute period per hour of not more than 27 percent opacity as set forth in 40 CFR 60.42(a)(2) and 40 CFR 60.42a(b).
4. The continuous monitoring system for monitoring opacity at a facility must be operated and maintained by the owner or operator specified in the permit for the facility in accordance with NAC 445B.256 to 445B.267, inclusive.

**C. Visible emissions: Exceptions for stationary sources (NAC 445B.2202) (*Federally Enforceable SIP Requirement*)**

The provisions of NAC 445B.22017 do not apply to:

1. Smoke from the open burning described in NAC 445B.22067;
2. Smoke discharged in the course of training air pollution control inspectors to observe visible emissions, if the facility has written approval of the Commission;
3. Emissions from an incinerator as set forth in NAC 445B.2207; or
4. Emissions of stationary diesel-powered engines during warm-up for not longer than 15 minutes to achieve operating temperatures.



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**Section I. General Provisions (continued)**

**D. Odors (NAC 445B.22087) (*State Only Requirement*)**

1. No person may discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents the comfortable enjoyment of life or property.
2. The Director shall investigate an odor when 30 percent or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy. The sample must be at least 20 people or 75 percent of those exposed if fewer than 20 people are exposed.
3. The Director shall deem the odor to be a violation if he or she is able to make two odor measurements within a period of 1 hour. These measurements must be separated by at least 15 minutes. An odor measurement consists of a detectable odor after the odorous air has been diluted with eight or more volumes of odor-free air.

**E. Prohibited Conduct: Concealment of Emissions (NAC 445B.225) (*Federally Enforceable SIP Requirement*)**

No person may install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.

**F. Prohibited conduct: Operation of source without required equipment; removal or modification of required equipment; modification of required procedure (NAC 445B.227) (*Federally Enforceable SIP Requirement*)**

Except as otherwise provided in NAC 445B.001 to 445B.390, inclusive, no person may:

1. Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating.
2. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of the permit.

**G. Excess Emissions (NAC 445B.232) (*State Only Requirement*)**

1. Scheduled maintenance or testing or scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.390, inclusive, must be approved in advance by the Director and performed during a time designated by the Director as being favorable for atmospheric ventilation.
2. Each owner or operator shall notify the Director of the proposed time and expected duration at least 30 days before any scheduled maintenance or testing which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.390, inclusive. The scheduled maintenance or testing must not be conducted unless the scheduled maintenance or testing is approved pursuant to subsection 1.
3. Each owner or operator shall notify the Director of the proposed time and expected duration at least 24 hours before any scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.390, inclusive. The scheduled repairs must not be conducted unless the scheduled repairs are approved pursuant to subsection 1.
4. Each owner or operator shall notify the Director of any excess emissions within 24 hours after any malfunction or upset of the process equipment or equipment for controlling pollution or during start-up or shutdown of that equipment.



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**Section I. General Provisions (continued)**

**G. Excess Emissions (NAC 445B.232) (*State Only Requirement*) (continued)**

5. Each owner or operator shall provide the Director, within 15 days after any malfunction, upset, start-up, shutdown or human error which results in excess emissions, sufficient information to enable the Director to determine the seriousness of the excess emissions. The information must include at least the following:
  - a. The identity of the stack or other point of emission, or both, where the excess emissions occurred.
  - b. The estimated magnitude of the excess emissions expressed in opacity or in the units of the applicable limitation on emission and the operating data and methods used in estimating the magnitude of the excess emissions.
  - c. The time and duration of the excess emissions.
  - d. The identity of the equipment causing the excess emissions.
  - e. If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunction.
  - f. The steps taken to limit the excess emissions.
  - g. Documentation that the equipment for controlling air pollution, process equipment or processes were at all times maintained and operated, to a maximum extent practicable, in a manner consistent with good practice for minimizing emissions.
6. Each owner or operator shall ensure that any notification or related information submitted to the Director pursuant to this section is provided in a format specified by the Director.

**H. Testing and Sampling (NAC 445B.252) (*Federally Enforceable SIP Requirement*)**

1. To determine compliance with NAC 445B.001 to 445B.390, inclusive, before the approval or the continuance of an operating permit or similar class of permits, the Director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the Director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the Director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial start-up of the facility and at such other times as may be required by the Director.
2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the Director:
  - a. Specifies or approves, in specific cases, the use of a method of reference with minor changes in methodology;
  - b. Approves the use of an equivalent method;
  - c. Approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific stationary source is in compliance; or
  - d. Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.
3. Tests of performance must be conducted under such conditions as the Director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the performance test. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of a performance test unless otherwise specified in the applicable standard.
4. The owner or operator of an affected facility shall give notice to the Director 30 days before the test of performance to allow the Director to have an observer present. A written testing procedure for the test of performance must be submitted to the Director at least 30 days before the test of performance to allow the Director to review the proposed testing procedures.
5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the Director's approval.
6. All testing and sampling will be performed in accordance with recognized methods and as specified by the Director.



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**Section I. General Provisions (continued)**

H. Testing and Sampling (NAC 445B.252) (*Federally Enforceable SIP Requirement*) (continued)

7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power and other pertinent allied facilities as may be required and specified in writing by the Director must be provided and paid for by the owner of the stationary source.
8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the Director no later than 60 days after the testing or sampling, or both.
9. Notwithstanding the provisions of subsection 2, the Director shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations for:
  - a. An emission unit that is subject to a testing requirement pursuant to Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations; or
  - b. An affected source.

I. Permit Revision (NAC 445B.287(1)(b)) (*Federally Enforceable SIP Requirement*)

If a stationary source is a Class II source, a revision of the operating permit or the permit to construct is required pursuant to the requirements of NAC 445B.3465 before the stationary source may be modified.

J. Violations: Acts constituting; notice (NAC 445B.275) (*Federally Enforceable SIP Requirement*)

1. Failure to comply with any requirement of NAC 445B.001 to 445B.390, inclusive, any applicable requirement or any condition of an operating permit constitutes a violation. As required by NRS 445B.450, the Director shall issue a written notice of an alleged violation to any owner or operator for any violation, including, but not limited to:
  - a. Failure to apply for and obtain an operating permit;
  - b. Failure to construct a stationary source in accordance with the application for an operating permit as approved by the Director;
  - c. Failure to construct or operate a stationary source in accordance with any condition of an operating permit;
  - d. Commencing construction or modification of a stationary source without applying for and receiving an operating permit or a modification of an operating permit as required by NAC 445B.001 to 445B.3477, inclusive, or a mercury operating permit to construct as required by NAC 445B.3611 to 445B.3689, inclusive;
  - e. Failure to comply with any requirement for recordkeeping, monitoring, reporting or compliance certification contained in an operating permit; or
  - f. Failure to pay fees as required by NAC 445B.327 or 445B.3689.
2. The written notice must specify the provision of NAC 445B.001 to 445B.390, inclusive, the condition of the operating permit or the applicable requirement that is being violated.
3. Written notice shall be deemed to have been served if delivered to the person to whom addressed or if sent by registered or certified mail to the last known address of the person.

K. Operating permits: Imposition of more stringent standards for emissions (NAC 445B.305)

(*Federally Enforceable SIP Requirement*)

1. The Director may impose standards for emissions on a proposed stationary source that are more stringent than those found in NAC 445B.001 to 445B.390, inclusive, as a condition of approving an operating permit for the proposed stationary source.





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**Section I. General Provisions (continued)**

**L. Contents of operating permits: Exception for operating permits to construct; required conditions (NAC 445B.315)  
(Federally Enforceable SIP Requirement)**

1. Notwithstanding any provision of this section to the contrary, the provisions of this section do not apply to operating permits to construct.
2. The Director shall cite the legal authority for each condition contained in an operating permit.
3. An operating permit must contain the following conditions:
  - a. The term of the operating permit is 5 years.
  - b. The holder of the operating permit shall retain records of all required monitoring data and supporting information for 5 years after the date of the sample collection, measurement, report or analysis. Supporting information includes all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation.
  - c. Each of the conditions and requirements of the operating permit is severable, and if any are held invalid, the remaining conditions and requirements continue in effect.
  - d. The holder of the operating permit shall comply with all conditions of the operating permit. Any noncompliance constitutes a violation and is a ground for:
    - (1) An action for noncompliance;
    - (2) Revising, revoking, reopening and revising, or terminating the operating permit by the Director; or
    - (3) Denial of an application for a renewal of the operating permit by the Director.
  - e. The need to halt or reduce activity to maintain compliance with the conditions of the operating permit is not a defense to noncompliance with any condition of the operating permit.
  - f. The Director may revise, revoke and reissue, reopen and revise, or terminate the operating permit for cause.
  - g. The operating permit does not convey any property rights or any exclusive privilege.
  - h. The holder of the operating permit shall provide the Director, in writing and within a reasonable time, with any information that the Director requests to determine whether cause exists for revising, revoking and reissuing, reopening and revising, or terminating the operating permit, or to determine compliance with the conditions of the operating permit.
  - i. The holder of the operating permit shall pay fees to the Director in accordance with the provisions set forth in NAC 445B.327 and 445B.331.
  - j. The holder of the operating permit shall allow the Director or any authorized representative, upon presentation of credentials, to:
    - (1) Enter upon the premises of the holder of the operating permit where:
      - (a) The stationary source is located;
      - (b) Activity related to emissions is conducted; or
      - (c) Records are kept pursuant to the conditions of the operating permit;
    - (2) Have access to and copy, during normal business hours, any records that are kept pursuant to the conditions of the operating permit;
    - (3) Inspect, at reasonable times, any facilities, practices, operations or equipment, including any equipment for monitoring or controlling air pollution, that are regulated or required pursuant to the operating permit; and
    - (4) Sample or monitor, at reasonable times, substances or parameters to determine compliance with the conditions of the operating permit or applicable requirements.
  - k. A responsible official of the stationary source shall certify that, based on information and belief formed after a reasonable inquiry, the statements made in any document required to be submitted by any condition of the operating permit are true, accurate and complete.



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**Section I. General Provisions (continued)**

**M. Operating permits: Revocation and reissuance (NAC 445B.3265) (*State Only Requirement*)**

1. An operating permit may be revoked if the control equipment is not operating.
2. An operating permit may be revoked by the Director upon determining that there has been a violation of NAC 445B.001 to 445B.390, inclusive, or the provisions of 40 CFR 52.21, or 40 CFR Part 60 or 61, Prevention of Significant Deterioration, New Source Performance Standards, and National Emission Standards for Hazardous Air Pollutants, adopted by reference in NAC 445B.221.
3. The revocation is effective 10 days after the service of a written notice, unless a hearing is requested.
4. To reissue a revoked operating permit, the holder of the revoked permit must file a new application with the Director, accompanied by the fee for an initial operating permit as specified in NAC 445B.327. An environmental review of the stationary source must be conducted as though construction had not yet commenced.

**N. Required contents of permit (NAC 445B.346) (*Federally Enforceable SIP Requirement*)**

In addition to the conditions set forth in NAC 445B.315, Class II operating permits must contain, as applicable:

1. Emission limitations and standards, including those operational requirements and limitations that ensure compliance with the conditions of the operating permit.
2. All requirements for monitoring, testing and reporting that apply to the stationary source.
3. A requirement that the owner or operator of the stationary source promptly report any deviations from any requirements of the operating permit.
4. The terms and conditions for any reasonably anticipated alternative operating scenarios identified by the owner or operator of the stationary source in his or her application and approved by the Director. Such terms and conditions must require the owner or operator to keep a contemporaneous log of changes from one alternative operating scenario to another.
5. A schedule of compliance for stationary sources that are not in compliance with any applicable requirement or NAC 445B.001 to 445B.390, inclusive:
  - a. Semiannual progress reports and a schedule of dates for achieving milestones;
  - b. Prior notice of and explanations for missed deadlines; and
  - c. Any preventive or corrective measures taken.

**\*\*\*End of General Provisions\*\*\***





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**Section II. General Monitoring, Recordkeeping, and Reporting Conditions**

A. Records Retention (NAC 445B.315(3)(b)) (*Federally Enforceable SIP Requirement*)

The holder of the operating permit shall retain records of all required monitoring data and supporting information for 5 years after the date of the sample collection, measurement, report or analysis. Supporting information includes all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation.

B. Deviations (NAC 445B.346(3)) (*Federally Enforceable SIP Requirement*)

Under the authority of NAC 445B.346(3), and in addition to the conditions set forth in NAC 445B.315, the owner or operator of the stationary source shall promptly report to the Director any deviations from the requirements of the operating permit. The report to the Director shall include the probable cause of all deviations and any action taken to correct the deviations. For the operating permit, prompt is defined as submittal of a report within 15 days of the deviation. This definition does not alter any reporting requirements as established for reporting of excess emissions as required under NAC 445B.232 as reproduced in **Section I.G.**

**E-mail notifications to:** [aircompliance@ndep.nv.gov](mailto:aircompliance@ndep.nv.gov)

C. Yearly Reports (NAC 445B.315(3)(h), NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

Under the authority of NAC 445B.315(3)(h) and NAC 445B.346(2) the Permittee will submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, emissions and supporting documentation to support the calculation of annual emissions. These reports and supporting documentation (if applicable) will be submitted via the State and Local Emissions Inventory System (SLEIS) maintained by the Bureau of Air Quality Planning for all emission units/systems specified. The completed report must be submitted to the Bureau of Air Quality Planning no later than March 1 annually for the preceding calendar year.

**\*\*\*End of General Monitoring, Recordkeeping, and Reporting Conditions\*\*\***



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**Section III. General Construction Conditions**

A. Notification (NAC 445B.250; NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

Under the authority of NAC 445B.250 and NAC 445B.346; the Director shall be notified in writing of the following for **PF1.020 through PF1.023**:

1. The date construction (or reconstruction as defined under NAC 445B.247) of the affected facility is commenced, postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.
2. The anticipated date of initial startup of an affected facility, postmarked no more than 60 days and no less than 30 days prior to such date.
3. The actual date of initial startup of the affected facility, postmarked within 15 days after such date.
4. The date upon which demonstration of the continuous monitoring system performance commences in accordance with NAC 445B.256 to 445B.267, inclusive. Notification must be postmarked not less than 30 days before such date.

**\*\*\*End of General Construction Conditions\*\*\***



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**Section IV. Specific Construction Requirements**

**A. Not Applicable**

**\*\*\*End of Specific Construction Requirements\*\*\***

**Bureau of Air Pollution Control****Facility ID No. A1056****Permit No. AP3443-2616.03****CLASS II AIR QUALITY OPERATING PERMIT****Issued to:** CHART, INC. – MCCARRAN FACILITY (AS PERMITTEE)**Section V. Specific Operating Conditions****A. Emission Unit S2.001**

| System 01 – Paint Booth and Solvent Use (Revised August 2025 – Air Case 12455) |                                  | Location UTM (Zone 11, NAD 83) |                |
|--|----------------------------------|--------------------------------|----------------|
|  |                                  | m North                        | m East         |
| S2.001   | Paint Spray Booth                | 4,379,082                      | 285,891        |
| <b>S2.002</b>  | <b>Facility Wide Solvent Use</b> | <b>4,379,082</b>               | <b>285,891</b> |

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. Emissions from **S2.001** shall be controlled by **dry media filters** that vent outside of the main building.
  - b. Descriptive Stack Parameters  
Stack Height: 31.0 feet  
Stack Diameter: 4.00 feet  
Stack Temperature: **72 °F**  
Exhaust Flow: 33,800.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. The maximum allowable throughput rate for **S2.001** shall not exceed **4.00 gallons of paint** per any one-hour period averaged over a daily basis, nor more than **17,520** gallons per year of paint.
  - b. The maximum allowable throughput rate for **S2.001** shall not exceed **4.00 gallons of solvent** per any one-hour period averaged over a daily basis, nor more than **11,260** gallons per year of solvent.
  - c. Hours
    - (1) **S2.001** may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.001** the following pollutants in excess of the following specified limits:

  - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.35** pounds per hour, nor more than **1.52** tons per year.
  - b. The discharge of **PM<sub>10</sub>** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.35** pounds per hour, nor more than **1.52** tons per year.
  - c. The discharge of **PM<sub>2.5</sub>** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.35** pounds per hour, nor more than **1.52** tons per year.
  - d. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **39.2** pounds per hour, nor more than **63.0** tons per year.
  - e. The discharge of **HAPs** (hazardous air pollutants) to the atmosphere shall not exceed **13.09** tons per year.
  - f. The opacity from **S2.001** shall not equal or exceed **20** percent.



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**Section V. Specific Operating Conditions (continued)**

**A. Emission Unit S2.001 (continued)**

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **S2.001** on a daily basis.
- b. Monitor and record the times at which operations start and stop as well as the total daily hours of operation for **S2.001**.
- c. Monitor and record the VOC and HAP content from the appropriate SDS sheets for each paint and solvent that is utilized for **S2.001**.
- d. Record the corresponding average hourly throughput rates in gallons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- e. Monitor and record the total yearly throughput rate in gallons per year. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
- f. Conduct and record an observation of visible emissions (excluding water vapor) on the dry media filters controlling **S2.001** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
- g. **Inspect the dry media filters installed on S2.001 in accordance with the manufacturer's operation and maintenance manual (e.g. the condition of the filter fabric). Record the calendar date, time, initials of inspector, the results and any corrective actions taken in a contemporaneous log.**

5. Performance and Compliance Testing (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall conduct renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section I.H. Testing and Sampling (NAC 445B.252) of this operating permit. All performance test results shall be based on the arithmetic average of three valid runs (NAC 445B.252(5)).
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A in Appendix M of 40 CFR Part 51 shall be used to determine PM<sub>10</sub> and PM<sub>2.5</sub> emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60. All particulate captured in the Method 5 test performed under this provision shall be considered PM<sub>2.5</sub> for determination of compliance.
- f. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.

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| System 02 – Blast Booth (Revised August 2025 – Air Case 12455) |                      | Location UTM (Zone 11, NAD 83) |         |
|--|----------------------|--------------------------------|---------|
|  |                      | m North                        | m East  |
| S2.003   | Abrasive Blast Booth | 4,379,105                      | 285,883 |

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. Emissions from **S2.003** shall be controlled by a **dust collector** that vents outside of the main building.
  - b. Descriptive Stack Parameters  
Stack Height: 13.3 feet  
Stack Diameter: 2.50 feet  
Stack Temperature: **72 °F**  
Exhaust Flow: 16,500.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. The maximum allowable throughput rate for **S2.003** shall not exceed **11.76** tons of **Steel Abrasive Grit** per any one-hour period averaged over a daily basis.
  - b. Hours  
(1) **S2.003 may operate a total of 24 hours per day.**
3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.003** the following pollutants in excess of the following specified limits:

  - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **1.23** tons per year.
  - b. The discharge of **PM<sub>10</sub>** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **1.23** tons per year.
  - c. The discharge of **PM<sub>2.5</sub>** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.28** pounds per hour, nor more than **1.23** tons per year.
  - d. The discharge of **Metallic HAPs** (hazardous air pollutants) to the atmosphere shall not exceed **12.88** pounds per year.
  - e. The opacity from **S2.003** shall not equal or exceed **20** percent.





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**Section V. Specific Operating Conditions (continued)**

**B. Emission Unit S2.003 (continued)**

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **S2.003** on a daily basis.
- b. **Monitor and record the hours of operation for S2.003 on a daily basis.**
- c. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- d. Conduct and record an observation of visible emissions (excluding water vapor) on the dust collector controlling **S2.003** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the quarterly observation of visible emissions, and any corrective actions taken.
- e. **Inspect the dust collector installed on S2.003 in accordance with the manufacturer's operation and maintenance manual (e.g. the condition of the filter fabric). Record the calendar date, time, initials of inspector, the results and any corrective actions taken in a contemporaneous log.**

5. Performance and Compliance Testing (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall conduct renewal performance testing at least 90 days prior to the expiration of this operating permit, but no earlier than 365 days from the date of expiration of this operating permit, and every 5 years thereafter, in accordance with the following:

- a. All opacity compliance demonstrations and performance tests must comply with the advance notification, protocol review, operational conditions, reporting, and other requirements of Section I.H. Testing and Sampling (NAC 445B.252) of this operating permit. All performance test results shall be based on the arithmetic average of three valid runs (NAC 445B.252(5)).
- b. Testing shall be conducted on the exhaust stack (post controls).
- c. Method 5 in Appendix A of 40 CFR Part 60 shall be used to determine PM emissions. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). Test runs must be conducted for up to two hours in an effort to collect this minimum sample.
- d. Method 201A in Appendix M of 40 CFR Part 51 shall be used to determine PM<sub>10</sub> and PM<sub>2.5</sub> emissions. The sample time and sample volume collected for each test run shall be sufficient to collect enough mass to weigh accurately.
- e. The Method 201A test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60. All particulate captured in the Method 5 test performed under this provision shall be considered PM<sub>2.5</sub> for determination of compliance.
- f. Method 9 in Appendix A of 40 CFR Part 60 shall be used to determine opacity. Opacity observations shall be conducted concurrently with the applicable performance test. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15 second intervals), unless otherwise specified by an applicable subpart.

6. Federal Requirements (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

**S2.003** is subject to the requirements in **Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories** of this operating permit.

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| System 03 – Small Blast Cabinet (Revised August 2025 – Air Case 12455) |                              | Location UTM (Zone 11, NAD 83) |         |
|--|------------------------------|--------------------------------|---------|
|  |                              | m North                        | m East  |
| S2.004   | Small Abrasive Blast Cabinet | 4,379,082                      | 285,861 |

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. Emissions from **S2.004** shall be controlled by a **dust collector** that vents inside the main building.
  - b. Descriptive Stack Parameters  
Stack Height: 4.90 feet  
Stack Diameter: 1.25 feet  
Stack Temperature: Ambient  
Exhaust Flow: 100.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. The maximum allowable throughput rate for **S2.004** shall not exceed **2,000 stainless steel valves** per year.
  - b. Hours  
(1) **S2.004 may operate a total of 24 hours per day.**
3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.004** the following pollutants in excess of the following specified limits:

  - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0017** pounds per hour, nor more than **0.0075** tons per year.
  - b. The discharge of **PM<sub>10</sub>** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0017** pounds per hour, nor more than **0.0075** tons per year.
  - c. The discharge of **PM<sub>2.5</sub>** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0017** pounds per hour, nor more than **0.0075** tons per year.
  - d. The discharge of **Metallic HAPs** (hazardous air pollutants) to the atmosphere shall not exceed **4.88** pounds per year.
  - e. The opacity from **S2.004** shall not equal or exceed **20** percent.
4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

  - a. Monitor and record the throughput for **S2.004** on a daily basis.
  - b. Monitor and record the hours of operation for **S2.004** on a daily basis.
  - c. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
  - d. Conduct and record an observation of visible emissions (excluding water vapor) on the dust collector controlling **S2.004** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.



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**Section V. Specific Operating Conditions (continued)**

**C. Emission Unit S2.004**

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*) (Continued)  
The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.
  - e. Inspect the dust collector installed on **S2.004** in accordance with the manufacturer's operation and maintenance manual (e.g. the condition of the filter fabric). Record the calendar date, time, initials of inspector, the results and any corrective actions taken in a contemporaneous log.
5. Federal Requirements (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)  
**S2.004** is subject to the requirements in **Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories** of this operating permit.

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| System 04 – Dry Polishing (Revised August 2025 – Air Case 12455) |                           | Location UTM (Zone 11, NAD 83) |         |
|--|---------------------------|--------------------------------|---------|
|  |                           | m North                        | m East  |
| S2.005   | Automated Polisher/Buffer | 4,379,082                      | 285,861 |

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. Emissions from **S2.005** shall be controlled by a **dust collector** that vents inside the main building.
  - b. Descriptive Stack Parameters  
Stack Height: 5.80 feet  
Stack Diameter: 15" x 19" feet  
Stack Temperature: Ambient  
Exhaust Flow: 2,400.0 dry standard cubic feet per minute (dscfm)
2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. The maximum allowable throughput rate for **S2.005** shall not exceed **24 stainless steel tanks** per any one-hour period averaged over a daily basis, nor more than **6,960 stainless steel tanks** per year.
  - b. Hours  
(1) **S2.005 may operate a total of 24 hours per day.**
3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.005** the following pollutants in excess of the following specified limits:

  - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.041** pounds per hour, nor more than **0.18** tons per year.
  - b. The discharge of **PM<sub>10</sub>** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.041** pounds per hour, nor more than **0.18** tons per year.
  - c. The discharge of **PM<sub>2.5</sub>** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.041** pounds per hour, nor more than **0.18** tons per year.
  - d. The discharge of **Metallic HAPs** (hazardous air pollutants) to the atmosphere shall not exceed **117.13** pounds per year.
  - e. The opacity from **S2.005** shall not equal or exceed **20** percent.



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**Section V. Specific Operating Conditions (continued)**

**D. Emission Unit S2.005 (continued)**

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **S2.005** on a daily basis.
- b. Monitor and record the hours of operation for **S2.005** on a daily basis.
- c. Record the corresponding average hourly throughput rate of **S2.005**. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation.
- d. Monitor and record the total yearly throughput rate of **S2.005**. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.
- e. Conduct and record an observation of visible emissions (excluding water vapor) on the dust collector controlling **S2.005** on a **monthly** basis while operating. The observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented to their back. If visible emissions are observed and exceed the applicable opacity standard, the Permittee shall take immediate corrective action. The Permittee shall maintain in a contemporaneous log with the following recordkeeping: the calendar date and time of any required monitoring, name of the observer, results of the monthly observation of visible emissions, and any corrective actions taken.
- f. **Inspect the dust collector installed on S2.005 in accordance with the manufacturer's operation and maintenance manual (e.g. the condition of the filter fabric). Record the calendar date, time, initials of inspector, the results and any corrective actions taken in a contemporaneous log.**

5. Federal Requirements (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

**S2.005** is subject to the requirements in **Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories** of this operating permit.

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| System 05 – Welding (Revised August 2025 – Air Case 12455) |           | Location UTM (Zone 11, NAD 83) |         |
|--|-----------|--------------------------------|---------|
|  |           | m North                        | m East  |
| PF1.001  | Welder 1  | 4,379,082                      | 285,861 |
| PF1.002  | Welder 2  | 4,379,082                      | 285,861 |
| PF1.003  | Welder 3  | 4,379,082                      | 285,861 |
| PF1.004  | Welder 4  | 4,379,082                      | 285,861 |
| PF1.005  | Welder 5  | 4,379,082                      | 285,861 |
| PF1.006  | Welder 6  | 4,379,082                      | 285,861 |
| PF1.007  | Welder 7  | 4,379,082                      | 285,861 |
| PF1.008  | Welder 8  | 4,379,082                      | 285,861 |
| PF1.009  | Welder 9  | 4,379,082                      | 285,861 |
| PF1.010  | Welder 10 | 4,379,082                      | 285,861 |
| PF1.011  | Welder 11 | 4,379,082                      | 285,861 |
| PF1.012  | Welder 12 | 4,379,082                      | 285,861 |
| PF1.013  | Welder 13 | 4,379,082                      | 285,861 |
| PF1.014  | Welder 14 | 4,379,082                      | 285,861 |
| PF1.015  | Welder 15 | 4,379,082                      | 285,861 |
| PF1.016  | Welder 16 | 4,379,082                      | 285,861 |
| PF1.017  | Welder 17 | 4,379,082                      | 285,861 |
| PF1.018  | Welder 18 | 4,379,082                      | 285,861 |
| PF1.019  | Welder 19 | 4,379,082                      | 285,861 |
| PF1.020  | Welder 20 | 4,379,082                      | 285,861 |
| PF1.021  | Welder 21 | 4,379,082                      | 285,861 |
| PF1.022  | Welder 22 | 4,379,082                      | 285,861 |
| PF1.023  | Welder 23 | 4,379,082                      | 285,861 |

1. Air Pollution Control Equipment (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. Emissions from **PF1.001 through PF1.023, each**, have no add-on controls and are released inside the main building.
2. Operating Parameters (NAC 445B.346(1)) (*Federally Enforceable SIP Requirement*)
  - a. The maximum allowable throughput rate for **PF1.001 through PF1.023, combined**, shall not exceed **5,000.0** pounds of welding material (weld rods, wire) per year.
  - b. Hours
    - (1) **PF1.001 through PF1.023, each**, may operate a total of **24** hours per day.
3. Emission Limits (NAC 445B.305, NAC 445B.346(1), NAC 445B. 22017) (*Federally Enforceable SIP Requirement*)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **PF1.001 through PF1.023, combined**, the following pollutants in excess of the following specified limits:

  - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.0070** pounds per hour, nor more than **0.031** tons per year.
  - b. The discharge of **PM<sub>10</sub>** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.0070** pounds per hour, nor more than **0.031** tons per year.
  - c. The discharge of **PM<sub>2.5</sub>** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.0070** pounds per hour, nor more than **0.031** tons per year.
  - d. The discharge of **Metallic HAPs** (hazardous air pollutants) to the atmosphere shall not exceed **3.35** pounds per year.
  - e. The opacity from **PF1.001 through PF1.023, each**, shall not equal or exceed **20** percent.





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**Section V. Specific Operating Conditions (continued)**

**E. Emission Units PF1.001 through PF1.023 (continued)**

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

The Permittee, upon the issuance of this operating permit, shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate.

- a. Monitor and record the throughput for **PF1.001 through PF1.023, each**, on a monthly basis.
- b. Monitor and record the hours of operation for **PF1.001 through PF1.023, each**, on a **monthly** basis.
- c. Record the corresponding average hourly throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total **monthly** throughput and the total **monthly** hours of operation.
- d. Monitor and record the total yearly throughput rate of **PF1.001 through PF1.023, combined**. The annual throughput shall be determined as the sum of the monthly throughput rates for the year for all previous months of that year.

5. Federal Requirements (NAC 445B.346(2)) (*Federally Enforceable SIP Requirement*)

**PF1.001 through PF1.023, each**, is subject to the requirements in **Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories** of this operating permit.

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



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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:

The provisions of this subpart apply to each new and existing affected source listed and defined in 40 CFR 63.11514(b)(1) through (b)(5) if the Permittee uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), defined to be the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead. Materials that contain MFHAP are defined to be materials that contain greater than 0.1 percent for carcinogens, as defined by OSHA at 29 CFR 1910.1200(d)(4), and greater than 1.0 percent for noncarcinogens. For the MFHAP, this corresponds to materials that contain cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight (of the metal), and materials that contain manganese in amounts greater than or equal to 1.0 percent by weight (of the metal), as shown in formulation data provided by the manufacturer or supplier, such as the Material Safety Data Sheet for the material. (40 CFR 63.11514(b))

a. Standards and Management Practices (40 CFR 63.11516)

- (1) *Dry abrasive blasting standards.* If the Permittee owns or operates a new or existing dry abrasive blasting affected source, Permittee must comply with the requirements in paragraphs **A.1.a.(1)(a) through A.1.a.(1)(c)** of this section, as applicable, for each dry abrasive blasting operation that uses materials that contain MFHAP, as defined in 40 CFR 63.11522, “What definitions apply to this subpart?”, or has the potential to emit MFHAP. These requirements do not apply when abrasive blasting operations are being performed that do not use any materials containing MFHAP or do not have the potential to emit MFHAP. (40 CFR 63.11516(a))

- (a) *Standards for dry abrasive blasting of objects performed in totally enclosed and unvented blast chambers.* If the Permittee owns or operates a new or existing dry abrasive blasting affected source which consists of an abrasive blasting chamber that is totally enclosed and unvented, as defined in 40 CFR 63.11522, “What definitions apply to this subpart?”, Permittee must implement management practices to minimize emissions of MFHAP. These management practices are the practices specified in paragraph **A.1.a.(1)(a)i. and A.1.a.(1)(a)ii.** of this section. (40 CFR 63.11516(a)(1))

- i. Permittee must minimize dust generation during emptying of abrasive blasting enclosures; and
    - ii. Permittee must operate all equipment associated with dry abrasive blasting operations according to the manufacturer's instructions.

- (b) *Standards for dry abrasive blasting of objects performed in vented enclosures.* If the Permittee owns or operates a new or existing dry abrasive blasting affected source which consists of a dry abrasive blasting operation which has a vent allowing any air or blast material to escape, Permittee must comply with the requirements in paragraphs **A.1.a.(1)(b)i. and A.1.a.(1)(b)ii.** of this section. Dry abrasive blasting operations for which the items to be blasted exceed 8 feet (2.4 meters) in any dimension, may be performed subject to the requirements in paragraph **A.1.a.(1)(c)** of this section. (40 CFR 63.11516(a)(2))

- i. Permittee must capture emissions and vent them to a filtration control device. Permittee must operate the filtration control device according to manufacturer's instructions, and Permittee must demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the filtration control devices, as specified by the requirements in **A.1.c.(3)(d)** of this section, “What are my notification, recordkeeping, and reporting requirements?”

- ii. Permittee must implement the management practices to minimize emissions of MFHAP as specified in paragraphs **A.1.a.(1)(b)ii.(A) through A.1.a.(1)(b)ii.(C)** of this section.

- (A) Permittee must take measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable; and
      - (B) Permittee must enclose dusty abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive materials; and
      - (C) Permittee must operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions.



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**Issued to:** CHART, INC. – MCCARRAN FACILITY (AS PERMITTEE)

**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through PF1.023) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - a. Standards and Management Practices (40 CFR 63.11516) (continued)
    - (1) *Dry abrasive blasting standards.* (continued)
    - (c) *Standards for dry abrasive blasting of objects greater than 8 feet (2.4 meters) in any one dimension.* If the Permittee owns or operates a new or existing dry abrasive blasting affected source which consists of a dry abrasive blasting operation which is performed on objects greater than 8 feet (2.4 meters) in any one dimension, Permittee may implement management practices to minimize emissions of MFHAP as specified in paragraph **A.1.a.(1)(c)i.** of this section instead of the practices required by paragraph **A.1.a.(1)(b)** of this section. Permittee must demonstrate that management practices are being implemented by complying with the requirements in paragraphs **A.1.a.(1)(c)ii. through A.1.a.(1)(c)iv.** of this section. (40 CFR 63.11516(a)(3))
      - i. Management practices for dry abrasive blasting of objects greater than 8 feet (2.4 meters) in any one dimension are specified in paragraphs **A.1.a.(1)(c)(i)(A) through A.1.a.(1)(c)(i)(E)** of this section.
        - (A) Permittee must take measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable; and
        - (B) Permittee must enclose abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive material; and
        - (C) Permittee must operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions; and
        - (D) Permittee must not re-use dry abrasive blasting media unless contaminants (i.e., any material other than the base metal, such as paint residue) have been removed by filtration or screening, and the abrasive material conforms to its original size; and
        - (E) Whenever practicable, Permittee must switch from high particulate matter (PM)-emitting blast media (e.g., sand) to low PM-emitting blast media (e.g., crushed glass, specular hematite, steel shot, aluminum oxide), where PM is a surrogate for MFHAP.
      - ii. Permittee must perform visual determinations of fugitive emissions, as specified in **A.1.b.(2)** of this section, "What are my monitoring requirements?", according to paragraphs **A.1.a.(1)(c)ii.(A) or A.1.a.(1)(c)ii.(B)** of this section, as applicable.
        - (A) For abrasive blasting of objects greater than 8 feet (2.4 meters) in any one dimension that is performed outdoors, Permittee must perform visual determinations of fugitive emissions at the fenceline or property border nearest to the outdoor dry abrasive blasting operation.
        - (B) For abrasive blasting of objects greater than 8 feet (2.4 meters) in any one dimension that is performed indoors, Permittee must perform visual determinations of fugitive emissions at the primary vent, stack, exit, or opening from the building containing the abrasive blasting operations.
      - iii. Permittee must keep a record of all visual determinations of fugitive emissions along with any corrective action taken in accordance with the requirements in **A.1.c.(3)(b)** of this section, "What are my notification, recordkeeping, and reporting requirements?"
      - iv. If visible fugitive emissions are detected, Permittee must perform corrective actions until the visible fugitive emissions are eliminated, at which time Permittee must comply with the requirements in paragraphs **A.1.a.(1)(c)iv.(A) and A.1.a.(1)(c)iv.(B)** of this section.
        - (A) Permittee must perform a follow-up inspection for visible fugitive emissions in accordance with **A.1.b.(1)** of this section, "Monitoring Requirements."
        - (B) Permittee must report all instances where visible emissions are detected, along with any corrective action taken and the results of subsequent follow-up inspections for visible emissions, with the Permittee annual certification and compliance report as required by **A.1.c.(2)(e)** of this section, "Notification, recordkeeping, and reporting requirements."



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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - a. Standards and Management Practices (40 CFR 63.11516) (continued)
    - (2) *Standards for dry grinding and dry polishing with machines.* If the Permittee owns or operates a new or existing dry grinding and dry polishing with machines affected source, Permittee must comply with the requirements of paragraphs **A.1.a.(2)(a) and A.1.a.(2)(b)** of this section for each dry grinding and dry polishing with machines operation that uses materials that contain MFHAP, as defined in 40 CFR 63.11522, “What definitions apply to this subpart?”, or has the potential to emit MFHAP. These requirements do not apply when dry grinding and dry polishing operations are being performed that do not use any materials containing MFHAP and do not have the potential to emit MFHAP. (40 CFR 63.11516(c))
      - (a) Permittee must capture emissions and vent them to a filtration control device. Permittee must demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the filtration control devices, as specified by the requirements in **A.1.c.(3)(d)** of this section, “Notification, recordkeeping, and reporting Requirements.” (40 CFR 63.11516(c)(1))
      - (b) Permittee must implement management practices to minimize emissions of MFHAP as specified in paragraphs **A.1.a.(2)(b)i. and A.1.a.(2)(b)ii.** of this section. (40 CFR 63.11516(c)(2))
        - i. Permittee must take measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions, as practicable;
        - ii. Permittee must operate all equipment associated with the operation of dry grinding and dry polishing with machines, including the filtration control device, according to manufacturer's
    - (3) *Standards for welding.* If the Permittee owns or operates a new or existing welding affected source, Permittee must comply with the requirements in paragraphs **A.1.a.(3)(a) and A.1.a.(3)(b)** of this section for each welding operation that uses materials that contain MFHAP, as defined in 40 CFR 63.11522, “What definitions apply to this subpart?”, or has the potential to emit MFHAP. If the Permittee's welding affected source uses 2,000 pounds or more per year of welding rod containing one or more MFHAP (calculated on a rolling 12-month basis), Permittee must demonstrate that management practices or fume control measures are being implemented by complying with the requirements in paragraphs **A.1.a.(3)(c) through A.1.a.(3)(h)** of this section. The requirements in paragraphs **A.1.a.(3)(a) through A.1.a.(3)(h)** of this section do not apply when welding operations are being performed that do not use any materials containing MFHAP or do not have the potential to emit MFHAP. (40 CFR 63.11516(f))
      - (a) Permittee must operate all equipment, capture, and control devices associated with welding operations according to manufacturer's instructions. Permittee must demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the capture and control devices, as specified by the requirements in **A.1.c.(3)(d)** of this section, “Notification, recordkeeping, and reporting requirements.” (40 CFR 63.11516(f)(1))
      - (b) Permittee must implement one or more of the management practices specified in paragraphs **A.1.a.(3)(b)i. through A.1.a.(3)(b)v.** of this section to minimize emissions of MFHAP, as practicable, while maintaining the required welding quality through the application of sound engineering judgment. (40 CFR 63.11516(f)(2))
        - i. Use welding processes with reduced fume generation capabilities (e.g., gas metal arc welding (GMAW)—also called metal inert gas welding (MIG));
        - ii. Use welding process variations (e.g., pulsed current GMAW), which can reduce fume generation rates;
        - iii. Use welding filler metals, shielding gases, carrier gases, or other process materials which are capable of reduced welding fume generation;
        - iv. Optimize welding process variables (e.g., electrode diameter, voltage, amperage, welding angle, shield gas flow rate, travel speed) to reduce the amount of welding fume generated; and
        - v. Use a welding fume capture and control system, operated according to the manufacturer's specifications.





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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through PF1.023) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - a. Standards and Management Practices (40 CFR 63.11516) (continued)
    - (3) *Standards for welding.* (continued)
      - (c) *Tier 1 compliance requirements for welding.* Permittee must perform visual determinations of welding fugitive emissions as specified in **A.1.b.(2)** of this section, “Monitoring requirements,” at the primary vent, stack, exit, or opening from the building containing the welding operations. Permittee must keep a record of all visual determinations of fugitive emissions along with any corrective action taken in accordance with the requirements in **A.1.c.(3)(b)** of this section, “Notification, recordkeeping, and reporting requirements.” (40 CFR 63.11516(f)(3))
      - (d) *Requirements upon initial detection of visible emissions from welding.* If visible fugitive emissions are detected during any visual determination required in paragraph **A.1.a.(3)(c)** of this section, Permittee must comply with the requirements in paragraphs **A.1.a.(3)(d)i. and A.1.a.(3)(d)ii.** of this section. (40 CFR 63.11516(f)(4))
        - i. Perform corrective actions that include, but are not limited to, inspection of welding fume sources, and evaluation of the proper operation and effectiveness of the management practices or fume control measures implemented in accordance with paragraph **A.1.a.(3)(b)** of this section. After completing such corrective actions, Permittee must perform a follow-up inspection for visible fugitive emissions in accordance with **A.1.b.(1)** of this section, “Monitoring Requirements,” at the primary vent, stack, exit, or opening from the building containing the welding operations.
        - ii. Report all instances where visible emissions are detected, along with any corrective action taken and the results of subsequent follow-up inspections for visible emissions, and submit with the Permittee’s annual certification and compliance report as required by **A.1.c.(2)(e)** of this section, “Notification, recordkeeping, and reporting requirements.”
      - (e) *Tier 2 requirements upon subsequent detection of visible emissions.* If visible fugitive emissions are detected more than once during any consecutive 12 month period (notwithstanding the results of any follow-up inspections), Permittee must comply with paragraphs **A.1.a.(3)(e)i. through A.1.a.(3)(e)iv.** of this section. (40 CFR 63.11516(f)(5))
        - i. Within 24 hours of the end of the visual determination of fugitive emissions in which visible fugitive emissions were detected, Permittee must conduct a visual determination of emissions opacity, as specified in **A.1.b.(3)** of this section, “Monitoring requirements,” at the primary vent, stack, exit, or opening from the building containing the welding operations.
        - ii. In lieu of the requirement of paragraph **A.1.a.(3)(c)** of this section to perform visual determinations of fugitive emissions with EPA Method 22, Permittee must perform visual determinations of emissions opacity in accordance with **A.1.b.(4)** of this section, “Monitoring Requirements,” using EPA Method 9, at the primary vent, stack, exit, or opening from the building containing the welding operations.
        - iii. Permittee must keep a record of each visual determination of emissions opacity performed in accordance with paragraphs **A.1.a.(3)(e)i. or A.1.a.(3)(e)ii.** of this section, along with any subsequent corrective action taken, in accordance with the requirements in **A.1.c.(3)(c)** of this section, “Notification, recordkeeping, and reporting requirements.”
        - iv. Permittee must report the results of all visual determinations of emissions opacity performed in accordance with paragraphs **A.1.a.(3)(e)i. or A.1.a.(3)(e)ii.** of this section, along with any subsequent corrective action taken, and submit with the Permittee’s annual certification and compliance report as required by **A.1.c.(2)(f)** of this section, “Notification, recordkeeping, and reporting requirements.”



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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through PF1.023) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (Federally Enforceable SIP Requirement) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - a. Standards and Management Practices (40 CFR 63.11516) (continued)
    - (3) *Standards for welding.* (continued)
      - (f) *Requirements for opacities less than or equal to 20 percent but greater than zero.* For each visual determination of emissions opacity performed in accordance with paragraph **A.1.a.(3)(e)** of this section for which the average of the six-minute average opacities recorded is 20 percent or less but greater than zero, Permittee must perform corrective actions, including inspection of all welding fume sources, and evaluation of the proper operation and effectiveness of the management practices or fume control measures implemented in accordance with paragraph **A.1.a.(3)(b)** of this section. (40 CFR 63.11516(f)(6))
      - (g) *Tier 3 requirements for opacities exceeding 20 percent.* For each visual determination of emissions opacity performed in accordance with paragraph **A.1.a.(3)(e)** of this section for which the average of the six-minute average opacities recorded exceeds 20 percent, Permittee must comply with the requirements in paragraphs **A.1.a.(3)(g)i. through A.1.a.(3)(g)v.** of this section. (40 CFR 63.11516(f)(7))
        - i. Permittee must submit a report of exceedance of 20 percent opacity, along with the Permittee's annual certification and compliance report, as specified in **A.1.c.(2)(g)** of this section, "Notification, recordkeeping, and reporting requirements," and according to the requirements of **A.1.c.(2)(a)** of this section, "Notification, recordkeeping, and reporting requirements."
        - ii. Within 30 days of the opacity exceedance, Permittee must prepare and implement a Site-Specific Welding Emissions Management Plan, as specified in paragraph **A.1.a.(3)(h)** of this section. If the Permittee has already prepared a Site-Specific Welding Emissions Management Plan in accordance with this paragraph, Permittee must prepare and implement a revised Site-Specific Welding Emissions Management Plan within 30 days.
        - iii. During the preparation (or revision) of the Site-Specific Welding Emissions Management Plan, Permittee must continue to perform visual determinations of emissions opacity, beginning on a daily schedule as specified in **A.1.b.(4)** of this section, "Monitoring Requirements," using EPA Method 9, at the primary vent, stack, exit, or opening from the building containing the welding operations.
        - iv. Permittee must maintain records of daily visual determinations of emissions opacity performed in accordance with paragraph **A.1.a.(3)(g)iii.** of this section, during preparation of the Site-Specific Welding Emissions Management Plan, in accordance with the requirements in **A.1.c.(2)(h)** of this section, "Notification, recordkeeping, and reporting requirements."
        - v. Permittee must include these records in the Permittee's annual certification and compliance report, according to the requirements of **A.1.c.(2)(a)** of this section, "Notification, recordkeeping, and reporting requirements."





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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - a. Standards and Management Practices (40 CFR 63.11516) (continued)
    - (3) *Standards for welding.* (continued)
      - (h) *Site-Specific Welding Emissions Management Plan.* The Site-Specific Welding Emissions Management Plan must comply with the requirements in paragraphs **A.1.a.(3)(h)i. through A.1.a.(3)(h)iii.** of this section. (40 CFR 63.11516(f)(8))
        - i. Site-Specific Welding Emissions Management Plan must contain the information in paragraphs **A.1.a.(3)(h)i.(A) through A.1.a.(3)(h)i.(F)** of this section.
          - (A) Company name and address;
          - (B) A list and description of all welding operations which currently comprise the welding affected source;
          - (C) A description of all management practices and/or fume control methods in place at the time of the opacity exceedance;
          - (D) A list and description of all management practices and/or fume control methods currently employed for the welding affected source;
          - (E) A description of additional management practices and/or fume control methods to be implemented pursuant to paragraph **A.1.a.(3)(g)ii.** of this section, and the projected date of implementation; and
          - (F) Any revisions to a Site-Specific Welding Emissions Management Plan must contain copies of all previous plan entries, pursuant to paragraphs **A.1.a.(3)(h)i.(D) and A.1.a.(3)(h)i.(E)** of this section.
        - ii. The Site-Specific Welding Emissions Management Plan must be updated annually to contain current information, as required by paragraphs **A.1.a.(3)(h)i.(A) through A.1.a.(3)(h)i.(C)** of this section, and submitted with the Permittee's annual certification and compliance report, according to the requirements of **A.1.c.(2)(a)** of this section, "Notification, recordkeeping, and reporting requirements."
        - iii. Permittee must maintain a copy of the current Site-Specific Welding Emissions Management Plan in the Permittee's records in a readily-accessible location for inspector review, in accordance with the requirements in **A.1.c.(3)(e)** of this section, "Notification, recordkeeping, and reporting requirements."
    - b. Monitoring Requirements (40 CFR 63.11517)
      - (1) *Visual determination of fugitive emissions, general.* Visual determination of fugitive emissions must be performed according to the procedures of EPA Method 22, of 40 CFR part 60, Appendix A-7. Permittee must conduct the EPA Method 22 test while the affected source is operating under normal conditions. The duration of each EPA Method 22 test must be at least 15 minutes, and visible emissions will be considered to be present if they are detected for more than six minutes of the fifteen minute period. (40 CFR 63.11517(a))
      - (2) *Visual determination of fugitive emissions, graduated schedule.* Visual determinations of fugitive emissions must be performed in accordance with paragraph **A.1.b.(1)** of this section and according to the schedule in paragraphs **A.1.b.(2)(a) through A.1.b.(2)(d)** of this section. (40 CFR 63.11517(b))
        - (a) *Daily Method 22 Testing.* Perform visual determination of fugitive emissions once per day, on each day the process is in operation, during operation of the process. (40 CFR 63.11517(b)(1))
        - (b) *Weekly Method 22 Testing.* If no visible fugitive emissions are detected in consecutive daily EPA Method 22 tests, performed in accordance with paragraph **A.1.b.(2)(a)** of this section for 10 days of work day operation of the process, Permittee may decrease the frequency of EPA Method 22 testing to once every five days of operation of the process (one calendar week). If visible fugitive emissions are detected during these tests, Permittee must resume EPA Method 22 testing of that operation once per day during each day that the process is in operation, in accordance with paragraph **A.1.b.(2)(a)** of this section. (40 CFR 63.11517(b)(2))



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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - b. Monitoring Requirements (40 CFR 63.11517) (continued)
    - (2) *Visual determination of fugitive emissions, graduated schedule.* (continued)
      - (c) *Monthly Method 22 Testing.* If no visible fugitive emissions are detected in four consecutive weekly EPA Method 22 tests performed in accordance with paragraph **A.1.b.(2)(b)** of this section, Permittee may decrease the frequency of EPA Method 22 testing to once per 21 days of operation of the process (one calendar month). If visible fugitive emissions are detected during these tests, Permittee must resume weekly EPA Method 22 in accordance with paragraph **A.1.b.(2)(b)** of this section. (40 CFR 63.11517(b)(3))
      - (d) *Quarterly Method 22 Testing.* If no visible fugitive emissions are detected in three consecutive monthly EPA Method 22 tests performed in accordance with paragraph **A.1.b.(2)(c)** of this section, Permittee may decrease the frequency of EPA Method 22 testing to once per 60 days of operation of the process (3 calendar months). If visible fugitive emissions are detected during these tests, Permittee must resume monthly EPA Method 22 in accordance with paragraph **A.1.b.(2)(c)** of this section. (40 CFR 63.11517(b)(4))
    - (3) *Visual determination of emissions opacity for welding Tier 2 or 3, general.* Visual determination of emissions opacity must be performed in accordance with the procedures of EPA Method 9, of 40 CFR part 60, Appendix A-4, and while the affected source is operating under normal conditions. The duration of the EPA Method 9 test shall be thirty minutes. (40 CFR 63.11517(c))
    - (4) *Visual determination of emissions opacity for welding Tier 2 or 3, graduated schedule.* Permittee must perform visual determination of emissions opacity in accordance with paragraph **A.1.b.(3)** of this section and according to the schedule in paragraphs **A.1.b.(4)(a) through A.1.b.(4)(e)** of this section. (40 CFR 63.11517(d))
      - (a) *Daily Method 9 testing for welding, Tier 2 or 3.* Perform visual determination of emissions opacity once per day during each day that the process is in operation. (40 CFR 63.11517(d)(1))
      - (b) *Weekly Method 9 testing for welding, Tier 2 or 3.* If the average of the six minute opacities recorded during any of the daily consecutive EPA Method 9 tests performed in accordance with paragraph **A.1.b.(4)(a)** of this section does not exceed 20 percent for 10 days of operation of the process, Permittee may decrease the frequency of EPA Method 9 testing to once per five days of consecutive work day operation. If opacity greater than 20 percent is detected during any of these tests, Permittee must resume testing every day of operation of the process according to the requirements of paragraph **A.1.b.(4)(a)** of this section. (40 CFR 63.11517(d)(2))
      - (c) *Monthly Method 9 testing for welding Tier 2 or 3.* If the average of the six minute opacities recorded during any of the consecutive weekly EPA Method 9 tests performed in accordance with paragraph **A.1.b.(4)(b)** of this section does not exceed 20 percent for four consecutive weekly tests, Permittee may decrease the frequency of EPA Method 9 testing to once per every 21 days of operation of the process. If visible emissions opacity greater than 20 percent is detected during any monthly test, Permittee must resume testing every five days of operation of the process according to the requirements of paragraph **A.1.b.(4)(b)** of this section. (40 CFR 63.11517(d)(3))
      - (d) *Quarterly Method 9 testing for welding Tier 2 or 3.* If the average of the six minute opacities recorded during any of the consecutive weekly EPA Method 9 tests performed in accordance with paragraph **A.1.b.(4)(c)** of this section does not exceed 20 percent for three consecutive monthly tests, Permittee may decrease the frequency of EPA Method 9 testing to once per every 120 days of operation of the process. If visible emissions opacity greater than 20 percent is detected during any quarterly test, Permittee must resume testing every 21 days (month) of operation of the process according to the requirements of paragraph **A.1.b.(4)(c)** of this section. (40 CFR 63.11517(d)(4))



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**Issued to:** CHART, INC. – MCCARRAN FACILITY (AS PERMITTEE)

**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through PF1.023) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - b. Monitoring Requirements (40 CFR 63.11517) (continued)
    - (4) *Visual determination of emissions opacity for welding Tier 2 or 3, graduated schedule.* (continued)
    - (e) *Return to Method 22 testing for welding, Tier 2 or 3.* If, after two consecutive months of testing, the average of the six minute opacities recorded during any of the monthly EPA Method 9 tests performed in accordance with paragraph **A.1.b.(4)(c)** of this section does not exceed 20 percent, Permittee may resume EPA Method 22 testing as in paragraphs **A.1.b.(2)(c)** and **A.1.b.(2)(d)** of this section. In lieu of this, Permittee may elect to continue performing EPA Method 9 tests in accordance with paragraphs **A.1.b.(4)(c)** and **A.1.b.(4)(d)** of this section. (40 CFR 63.11517(d)(5))
  - c. Notification, Recordkeeping, and Reporting Requirements (40 CFR 63.11519)
    - (1) *What notifications must I submit?* (40 CFR 63.11519(a))
      - (a) *Initial notification.* If Permittee is the owner or operator of an area source in one of the nine metal fabrication and finishing source categories, as defined in 40 CFR 63.11514 “Am I subject to this subpart?,” Permittee must submit the Initial Notification required by 40 CFR 63.9(b) “General Provisions,” for a new affected source no later than 120 days after initial startup or November 20, 2008, whichever is later. For an existing affected source, Permittee must submit the Initial Notification no later than July 25, 2011. The Permittee’s Initial Notification must provide the information specified in paragraphs **A.1.c.(1)(a)(i) through A.1.c.(1)(a)iv.** of this section. (40 CFR 63.11519(a)(1))
        - i. The name, address, phone number and e-mail address of the owner and operator;
        - ii. The address (physical location) of the affected source;
        - iii. An identification of the relevant standard (i.e., this subpart); and
        - iv. A brief description of the type of operation. For example, a brief characterization of the types of products (e.g., aerospace components, sports equipment, etc.), the number and type of processes, and the number of workers usually employed.
      - (b) *Notification of compliance status.* If Permittee is the owner or operator of an existing affected source, Permittee must submit a notification of compliance status on or before November 22, 2011. If Permittee is the owner or operator of a new affected source, Permittee must submit a notification of compliance status within 120 days after initial startup, or by November 20, 2008, whichever is later. Permittee is required to submit the information specified in paragraphs **A.1.c.(1)(b)i. through A.1.c.(1)(b)iv.** of this section with the Permittee’s notification of compliance status: (40 CFR 63.11519(a)(2))
        - i. The Permittee company's name and address;
        - ii. A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart;
        - iii. If the Permittee operates any spray painting affected sources, the information required by 40 CFR 63.11516(e)(3)(vi)(C), “Compliance demonstration,” or 40 CFR 63.11516(e)(4)(ix)(C), “Compliance demonstration,” as applicable; and
        - iv. The date of the notification of compliance status.



**Bureau of Air Pollution Control**

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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - c. Notification, Recordkeeping, and Reporting Requirements (40 CFR 63.11519) (continued)
    - (2) *What reports must I prepare or submit?* (40 CFR 63.11519(b))
      - (a) *Annual certification and compliance reports.* Permittee must prepare and submit annual certification and compliance reports for each affected source according to the requirements of paragraphs **A.1.c.(2)(b) through A.1.c.(2)(f)** of this section. The annual certification and compliance reporting requirements may be satisfied by reports required under other parts of the CAA, as specified in paragraph **A.1.c.(2)(c)** of this section. (40 CFR 63.11519(b)(1))
      - (b) *Dates.* Unless the Administrator has approved or agreed to a different schedule for submission of reports under 40 CFR 63.10(a), “General Provisions,” Permittee must prepare and submit each annual certification and compliance report according to the dates specified in paragraphs **A.1.c.(2)(b)i. through A.1.c.(2)(b)iii.** of this section. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation. (40 CFR 63.11519(b)(2))
        - i. The first annual certification and compliance report must cover the first annual reporting period which begins the day after the compliance date and ends on December 31.
        - ii. Each subsequent annual certification and compliance report must cover the subsequent semiannual reporting period from January 1 through December 31.
        - iii. Each annual certification and compliance report must be prepared and submitted no later than January 31 and kept in a readily-accessible location for inspector review. If an exceedance has occurred during the year, each annual certification and compliance report must be submitted along with the exceedance reports, and postmarked or delivered no later than January 31.
      - (c) *Alternate dates.* For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, “Title V.” (40 CFR 63.11519(b)(3))
        - i. If the permitting authority has established dates for submitting annual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), “Title V,” Permittee may prepare or submit, if required, the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the date specified in paragraph **A.1.c.(2)(b)iii.** of this section.
        - ii. If an affected source prepares or submits an annual certification and compliance report pursuant to this section along with, or as part of, the monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), “Title V,” and the compliance report includes all required information concerning exceedances of any limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same exceedances in the annual monitoring report. However, submission of an annual certification and compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.
      - (d) *General requirements.* The annual certification and compliance report must contain the information specified in paragraphs **A.1.c.(2)(d)(i) through A.1.c.(2)(d)(iii)** of this section, and the information specified in paragraphs **A.1.c.(2)(e) through A.1.c.(2)(f)** of this section that is applicable to each affected source. (40 CFR 63.11519(b)(4))
        - i. Company name and address;
        - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report; and
        - iii. Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period ending on December 31. Note that the information reported for the 12 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.





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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (*Federally Enforceable SIP Requirement*) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - c. Notification, Recordkeeping, and Reporting Requirements (40 CFR 63.11519) (continued)
    - (2) *What reports must I prepare or submit?* (continued)
      - (e) *Visual determination of fugitive emissions requirements.* The annual certification and compliance report must contain the information specified in paragraphs **A.1.c.(2)(e)i. through A.1.c.(2)(e)iii.** of this section for each affected source which performs visual determination of fugitive emissions in accordance with **A.1.b.(1)** of this section, “Monitoring requirements.” (40 CFR 63.11519(b)(5))
        - i. The date of every visual determination of fugitive emissions which resulted in detection of visible emissions;
        - ii. A description of the corrective actions taken subsequent to the test; and
        - iii. The date and results of the follow-up visual determination of fugitive emissions performed after the corrective actions.
      - (f) *Visual determination of emissions opacity requirements.* The annual certification and compliance report must contain the information specified in paragraphs **A.1.c.(2)(f)i. through A.1.c.(2)(f)iii.** of this section for each affected source which performs visual determination of emissions opacity in accordance with **A.1.b.(3)** of this section, “Monitoring requirements.” (40 CFR 63.11519(b)(6))
        - i. The date of every visual determination of emissions opacity;
        - ii. The average of the six-minute opacities measured by the test; and
        - iii. A description of any corrective action taken subsequent to the test.
      - (g) *Exceedances of 20 percent opacity for welding affected sources.* As required by 40 CFR Part 63.11516(f)(7)(i), “Requirements for opacities exceeding 20 percent,” Permittee must prepare an exceedance report whenever the average of the six-minute average opacities recorded during a visual determination of emissions opacity exceeds 20 percent. This report must be submitted along with the Permittee’s annual certification and compliance report according to the requirements in paragraph **A.1.c.(2)(a)** of this section, and must contain the information in paragraphs **A.1.c.(2)(g)i. and A.1.c.(2)(g)ii.** of this section. (40 CFR 63.11519(b)(8))
        - i. The date on which the exceedance occurred; and
        - ii. The average of the six-minute average opacities recorded during the visual determination of emissions opacity.
      - (h) *Site-specific Welding Emissions Management Plan reporting.* Permittee must submit a copy of the records of daily visual determinations of emissions recorded in accordance with **A.1.a.(3)(g)iv.** of this section, “Tier 3 requirements for opacities exceeding 20 percent,” and a copy of the Permittee’s Site-Specific Welding Emissions Management Plan and any subsequent revisions to the plan pursuant to **A.1.a.(3)(h)**, “Site-specific Welding Emission Management Plan,” along with the Permittee’s annual certification and compliance report, according to the requirements in paragraph **A.1.c.(2)(a)** of this section. (40 CFR 63.11519(b)(9))
    - (3) *What records must I keep?* Permittee must collect and keep records of the data and information specified in paragraphs **A.1.c.(3)(a) through A.1.c.(3)(k)** of this section, according to the requirements in paragraph **A.1.c.(3)(l)** of this section. (40 CFR 63.11519(c))
      - (a) *General compliance and applicability records.* Maintain information specified in paragraphs **A.1.c.(3)(a)i. and A.1.c.(3)(a)ii.** of this section for each affected source. (40 CFR 63.11519(c)(1))
        - i. Each notification and report the Permittee submitted to comply with this subpart, and the documentation supporting each notification and report.
        - ii. Records of the applicability determinations as in 40 CFR 63.11514(b)(1) through (5), “Am I subject to this subpart,” listing equipment included in its affected source, as well as any changes to that and on what date they occurred, must be maintained for 5 years and be made available for inspector review at any time.



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**Section VI. Specific Operating Conditions – National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories (continued)**

**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through **PF1.023**) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (Federally Enforceable SIP Requirement) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - c. Notification, Recordkeeping, and Reporting Requirements (40 CFR 63.11519) (continued)
    - (3) *What records must I keep?* (continued)
      - (b) *Visual determination of fugitive emissions records.* Maintain a record of the information specified in paragraphs **A.1.c.(3)(b)i. through A.1.c.(3)(b)iii.** of this section for each affected source which performs visual determination of fugitive emissions in accordance with **A.1.b.(1)** of this section, “Monitoring requirements.” (40 CFR 63.11519(c)(2))
        - i. The date and results of every visual determination of fugitive emissions;
        - ii. A description of any corrective action taken subsequent to the test; and
        - iii. The date and results of any follow-up visual determination of fugitive emissions performed after the corrective actions.
      - (c) *Visual determination of emissions opacity records.* Maintain a record of the information specified in paragraphs **A.1.c.(3)(c)i. through A.1.c.(3)(c)iii.** of this section for each affected source which performs visual determination of emissions opacity in accordance with **A.1.b.(3)** of this section, “Monitoring requirements.” (40 CFR 63.11519(c)(3))
        - i. The date of every visual determination of emissions opacity; and
        - ii. The average of the six-minute opacities measured by the test; and
        - iii. A description of any corrective action taken subsequent to the test.
      - (d) Maintain a record of the manufacturer's specifications for the control devices used to comply with **A.1.a.** of this section, “What are my standards and management practices?” (40 CFR 63.11519(c)(4))
      - (e) *Visual determination of emissions opacity performed during the preparation (or revision) of the Site-Specific Welding Emissions Management Plan.* Permittee must maintain a record of each visual determination of emissions opacity performed during the preparation (or revision) of a Site-Specific Welding Emissions Management Plan, in accordance with **A.1.a.(3)(g)iii** of this section, “Requirements for opacities exceeding 20 percent.” (40 CFR 63.11519(c)(11))
      - (f) *Site-Specific Welding Emissions Management Plan.* If Permittee have been required to prepare a plan in accordance with **A.1.a.(3)(g)iii** of this section “Site-Specific Welding Emissions Management Plan,” Permittee must maintain a copy of the Permittee’s current Site-Specific Welding Emissions Management Plan in The Permittee’s records and it must be readily available for inspector review. (40 CFR 63.11519(c)(12))
      - (g) Manufacturer's instructions. If Permittee comply with this subpart by operating any equipment according to manufacturer's instruction, Permittee must keep these instructions readily available for inspector review. (40 CFR 63.11519(c)(13))
      - (h) Welding Rod usage. If the Permittee operates a new or existing welding affected source which is not required to comply with the requirements of **A.1.a.(3)(c) through A.1.a.(3)(h)** of this section, because it uses less than 2,000 pounds per year of welding rod (on a rolling 12-month basis), Permittee must maintain records demonstrating the Permittee’s welding rod usage on a rolling 12-month basis. (40 CFR 63.11519(c)(14))





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**A. System 2 (S2.003), System 3 (S2.004), System 4 (S2.005), System 5 (PF1.001 through PF1.023) (continued)**

1. Federal Requirements (NAC 445B.346(2), NAC 445B.252(1)) (Federally Enforceable SIP Requirement) (continued)  
National Emission Standards for Hazardous Air Pollutants Area Source Standards – 40 CFR Part 63, Subpart XXXXXX Standards for Nine Metal Fabrication and Finishing Source Categories:
  - c. Notification, Recordkeeping, and Reporting Requirements (40 CFR 63.11519) (continued)
    - (3) *What records must I keep?* (continued)
      - (i) The Permittee's records must be maintained according to the requirements in paragraphs **A.1.c.(3)(i) through A.1.c.(3)(i)iii.** of this section. (40 CFR 63.11519(c)(15))
        - i. The Permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1), "General Provisions." Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
        - ii. As specified in 40 CFR 63.10(b)(1), "General Provisions," Permittee must keep each record for 5 years following the date of each occurrence, measurement, corrective action, report, or record.
        - iii. Permittee must keep each record on-site for at least 2 years after the date of each occurrence, measurement, corrective action, report, or record according to 40 CFR 63.10(b)(1), "General Provisions." Permittee may keep the records off-site for the remaining 3 years.

**\*\*\*\*End of Specific Operating Conditions – NESHAP Subpart XXXXXX\*\*\*\***



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**Section VII. Emission Caps**

A. Not Applicable

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



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**Section VIII. Surface Area Disturbance Conditions**

The surface area disturbance for **Chart Inc. McCarran Facility** is **13.6** acres.

**A. Fugitive Dust (NAC 445B.22037) (*Federally Enforceable SIP Requirement*)**

1. No person may 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, no person may 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 otherwise provided in subsection 4, no person may disturb or cover 5 acres or more of land or its topsoil until he has obtained an operating permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of subsections 2 and 3 do not apply to:
  - a. Agricultural activities occurring on agricultural land; or
  - b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

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



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**Section IX. Schedules of Compliance**

A. Not Applicable

**\*\*\*\*End of Schedule of Compliance \*\*\*\***



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**Section X. Amendments**

Revision August 2025 – Air Case 12455 – System 1: S2.001 stack exit temperature was changed to 72°F, solvent usage was updated, and hours of operation were increased. S2.002 facility wide solvent emissions were removed. System 2: S2.003 stack exit temperature was changed to 72°F, and hours of operation were increased. System 3: S2.004 the number of valves were increased, updated the grain loading factor, and increased the hours of operation. System 4: S2.005 updated the grain loading factor and increased the hours of operation. System 5: added 4 new welding units, increased the amount of welding material consumed.

**This permit:**

1. **Is non-transferable. (NAC 445B.287.3) (*Federally Enforceable SIP Requirement*)**
2. **Will be posted conspicuously at or near the stationary source. (NAC 445B.318.5) (*Federally Enforceable SIP Requirement*)**
3. **Will expire and be subject to renewal five (5) years from: January 8, 2025 .**  
**(NAC 445B.315) (*Federally Enforceable SIP Requirement*)**
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 70 calendar days before the expiration date of this operating permit. (NAC 445B.3473.2) (*Federally Enforceable SIP Requirement*)**
5. **Any person aggrieved by a final decision of the Department may, not later than 10 days after notice of the action of the Department, appeal the decision by filing a request for a hearing before the Commission on a form 3\* with the State Environmental Commission, 901 South Stewart Street, Suite 4001, Carson City, Nevada 89701-5249.**  
**\*(See adopting agency for form.) (NAC 445B.890) (*State Only Requirement*)**

**THIS PERMIT EXPIRES ON:** January 8, 2030

**Signature:** \_\_\_\_\_

**Issued by:**

Shantell Davis  
Supervisor, Permitting Branch  
Bureau of Air Pollution Control

**Phone:**

(775) 687- 9549

**Date:**

**Date**



**Bureau of Air Pollution Control**

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## Class II Insignificant Activities List

Appended to Permit #AP3443-2616.03

| Emission Unit # | Emission Unit Description                               |
|-----------------|---|
| IA1.001         | 0.125 MMBtu/hr Portable Diesel Space Heater 1           |
| IA1.002         | 0.125 MMBtu/hr Portable Diesel Space Heater 2           |
| IA1.003         | 0.19 MMBtu/hr Portable Diesel Space Heater 3            |
| IA1.004         | 0.19 MMBtu/hr Portable Diesel Space Heater 4            |
| IA1.005         | 0.625 MMBtu/hr Natural Gas Warehouse Large Bay Heater 1 |
| IA1.006         | 0.625 MMBtu/hr Natural Gas Warehouse Large Bay Heater 2 |
| IA1.007         | 0.843 MMBtu/hr Natural Gas Warehouse Small Bay Heater   |
| IA1.008         | 0.130 MMBtu/hr Natural Gas Front Office Furnace         |
| IA1.009         | 0.075 MMBtu/hr Natural Gas Break Room Furnace           |