



Bureau of Air Pollution Control

901 SOUTH STEWART STREET SUITE 4001

CARSON CITY, NEVADA 89701-5249

p: 775-687-9349 • www.ndep.nv.gov/bapc

Facility ID No. A0016

Permit No. AP4911-2189.04

CLASS I AIR QUALITY OPERATING PERMIT (40 CFR Part 70 Program)

Issued to: NEVADA GOLD MINES LLC – WESTERN 102 POWER PLANT (HEREINAFTER REFERRED TO AS PERMITTEE)

Mailing Address: 2555 WALTHAM WAY, MCCARRAN, NV 89437

Physical Address: 2555 WALTHAM WAY, MCCARRAN, NV 89437

Driving Directions: APPROXIMATELY 25 KM EAST OF RENO, NV AT THE RENO-TAHOE INDUSTRIAL COMPLEX

General Facility Location:

SECTION 33 AND 34, T 20 N, R 22 E, MDB&M

HA 83 – TRACY SEGMENT / STOREY COUNTY

NORTH 4,381,880 M, EAST 284,320 M, UTM ZONE 11, NAD 83

Emission Unit List:

A. System 01 – Wartsila Power Plant

- S2.001 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #1
- S2.002 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #2
- S2.003 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #3
- S2.004 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #4
- S2.005 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #5
- S2.006 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #6
- S2.007 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #7
- S2.008 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #8
- S2.009 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #9
- S2.010 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #10
- S2.011 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #11
- S2.012 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #12
- S2.013 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #13
- S2.014 Wartsila Natural-Gas Reciprocating Internal Combustion Engine #14

B. System 02 – Emergency Diesel Generator (190 hp)

- S2.015 Emergency Diesel Generator (190 HP, Manufacturer John Deere, Manufactured 2002 or earlier)

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



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Section I. General Conditions

- A. Nevada Administrative Code (NAC) 445B.063
The Department may use any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed, to determine excess emissions.
- B. NAC 445B.22013
Prohibited Discharge
The Permittee shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the Director.
- C. NAC 445B.22017
Visible Emissions: Maximum Opacity; Determination and Monitoring of Opacity.
1. Except as otherwise provided in this section and NAC 445B.2202, the Permittee may not 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.
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.
- D. NAC 445B.22067
Open Burning
The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in NAC 445B.22067(2).
- E. NAC 445B.22087
Odors
1. The Permittee may not 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.
- F. NAC 445B.225
Prohibited Conduct: Concealment of Emissions
The Permittee may not install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.



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Section I. General Conditions (continued)

G. NAC 445B.227

Prohibited conduct: Operation of source without required equipment; removal or modification of required equipment; modification of required procedure

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.

H. NAC 445B.232

Excess Emissions

1. Scheduled maintenance or testing or scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.100 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. The Permittee 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 NAC 445B.232(1).
3. The Permittee 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 NAC 445B.232(1).
4. The Permittee shall notify the Director by email 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. The Permittee shall send the email to aircompliance@ndep.nv.gov.
5. The Permittee 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. The Permittee 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.



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Section I. General Conditions (continued)

I. NAC 445B.252

Testing and Sampling

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 Permittee 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 reference method with minor changes in methodology;
 - b. Approves the use of an equivalent method;¹
 - 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;² or
 - d. Waives the requirement for tests of performance because the Permittee 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 Permittee shall make available to the Director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.
4. The Permittee 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.³
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 Permittee 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 NAC 445B.252(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.

¹ Requires additional approval from the EPA Administrator.

² Requires additional approval from the EPA Administrator.

³ Requires additional approval from the EPA Administrator.



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Section I. General Conditions (continued)

J. NAC 445B.273(1)

Schedules for Compliance

All new and existing stationary sources must comply with NAC 445B.001 through 445B.390, inclusive. Existing stationary sources are in compliance with those sections and may continue to operate under the provisions of their approved compliance schedules, which may be amended from time to time.

K. NAC 445B.275

Violations: Acts constituting: notice

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 the Permittee 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.

L. NAC 445B.305

Operating permits: Imposition of more stringent standards for emissions

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.

M. NAC 445B.315

Contents of operating permits: Exception for operating permits to construct; required conditions

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 Permittee 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 Permittee 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.



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Section I. General Conditions (continued)

M. NAC 445B.315 (continued)

Contents of operating permits: Exception for operating permits to construct; required conditions (continued)

3. An operating permit must contain the following conditions (continued):
 - 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 Permittee shall provide the Director, in writing and within a reasonable time, with any information that the Director requests⁴ 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 Permittee shall pay fees to the Director in accordance with the provisions set forth in NAC 445B.327 and 445B.331.
 - j. The Permittee shall allow the Director or any authorized representative, upon presentation of credentials, to:
 - (1) Enter upon the premises of the Permittee 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;⁵
 - (2) Have access to and copy, during normal business hours, any records that are kept pursuant to the conditions of the operating permit⁶
 - (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 (as defined in NAC 445B.156) 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.

N. NAC 445B.319, NAC 445B.342, NAC 445B.3425, and NAC 445B.344

Any changes to this operating permit will comply with all provisions established under NAC 445B.319 (Administrative Amendment),⁷ NAC 445B.342 (Notification of Authorized Change), NAC 445B.3425 (Minor Revision), and NAC 445B.344 (Significant Revision).

⁴ The Permittee shall submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, and emissions. These reports will be submitted in the format required by the Nevada Division of Environmental Protection Bureau of Air Pollution Control and Bureau of Air Quality Planning (Air Programs) for all emission units/systems specified on the form. The report must be submitted to the Air Programs no later than March 1 annually for the preceding calendar year, unless otherwise approved by the Air Programs.

⁵ Under NAC 445B.288(3), the Permittee shall retain an operating log for emission units considered insignificant activities subject to a limitation on its hours of operation pursuant to NAC 445B.288(2) for not less than 5 years.

⁶ The Permittee shall provide a digital spreadsheet or specified format required by the Nevada Division of Environmental Protection Bureau of Air Pollution Control.

⁷ Under NAC 445B.287(3), an operating permit may not be transferred from one owner or piece of equipment to another. The Permittee may apply for an administrative amendment reflecting a change of ownership or the name of the stationary source.



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Section I. General Conditions (continued)

O. NAC 445B.325

Termination, reopening and revision, modification, and revocation and reissuance

1. A Class I operating permit must be reopened and revised to incorporate any additional applicable requirement adopted pursuant to the Act if, on the effective date of the applicable requirement, the operating permit has a remaining term of 3 or more years. The reopening must be completed no later than 18 months after the effective date of the applicable requirement.⁸
2. An operating permit may be terminated, reopened and revised, modified, or revoked and reissued if:
 - a. The Director or the Administrator determines that the operating permit contains a material mistake or is based on inaccurate statements;
 - b. The Director or the Administrator determines that the operating permit, as written, does not ensure compliance with all applicable requirements; or
 - c. The Director determines that there has been a violation of any of the provisions of NAC 445B.001 to 445B.390, inclusive, any applicable requirement, or any condition contained in the operating permit
3. The Director shall notify the Permittee at least 30 days before the Director terminates, reopens and revises, revises, or revokes and reissues the operating permit. The notice must be made by certified mail and must contain the legal authority, the jurisdiction and the reasons for the action taken.⁹
4. If the Administrator notifies the Director and the Permittee that cause exists to reopen the operating permit, the Director shall forward to the Administrator a proposed determination of the reopening and revision, the revision of, or the revocation and reissuance of the operating permit within 90 days after receipt of the notice from the Administrator.¹⁰
5. If the Director reopens an operating permit, he or she shall revise only those portions of the operating permit for which cause exists.
6. The reopening of an operating permit pursuant to this section must comply with all of the relevant requirements for the issuance or revision of a permit, including the requirements related to the content of the permit and the requirements for notice, public participation and comment, and a review by any affected states.

P. NAC 445B.3265

Operating permits: Revocation and reissuance

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.

⁸ State only requirements (only Nevada has authority to enforce).

⁹ State only requirements (only Nevada has authority to enforce).

¹⁰ State only requirements (only Nevada has authority to enforce).



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Section I. General Conditions (continued)

P. NAC 445B.3265 (continued)

Operating permits: Revocation and reissuance (continued)

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.

Q. NAC 445B.3405(1)(d)

The Permittee shall record:

1. Monitoring information required by the conditions of this permit including the date, the location and the time of the sampling or the measurements and the operating conditions at the time of the sampling or measurements; and
2. The date on which the analyses were performed, the company that performed them, the analytical techniques that the company used, and the results of such analyses.

R. NAC 445B.3405(1)(e)

The Permittee shall:

1. Promptly report to the Director all deviations from the requirements of this operating permit; and
2. Report to the Director the probable cause of all deviations and any action taken to correct the deviations. For this 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, or for reporting of an emergency (as defined by NAC 445B.326); and
3. Submit reports of any required monitoring every 6 months, within 8 weeks after June 30 and December 31 of each calendar year. The reports must contain a summary of the data collected as required by all monitoring, recordkeeping and compliance requirements and as specified in this operating permit.

S. NAC 445B.3405(1)(j)

The Permittee shall submit a compliance certification annually,¹¹ or more frequently if required by an applicable requirement, to the Director. A copy of the compliance certification must be submitted to the Administrator. A compliance certification must include:

1. An identification of each term or condition of the operating permit that is the basis of the certification;
2. The status of the stationary source's compliance with any applicable requirement;
3. A statement of whether compliance was continuous or intermittent;
4. The method used for determining compliance; and
5. Any other facts the Director determines to be necessary to determine compliance.

T. NAC 445B.3443

Renewal of permit

1. All Class I operating permits must be renewed 5 years after the date of issuance.
2. A complete application for the renewal of a Class I operating permit must be submitted to the Director on the form provided by the Director with the appropriate fee at least 240 days, but not earlier than 18 months, before the expiration date of the current Class I operating permit for stationary sources.¹²
3. Applications for the renewal of a Class I operating permit must comply with all requirements for the issuance of an initial Class I operating permit as specified in NAC 445B.3395.
4. If an application for the renewal of a Class I operating permit is submitted in accordance with NAC 445B.3443(2), the stationary source may continue to operate under the conditions of the existing Class I operating permit until the Class I operating permit is renewed or the application for renewal is denied.

¹¹ The Permittee shall submit the compliance certification on or before March 1.

¹² The Director shall determine whether the application is complete within 60 days of receipt of the application (NAC 445B.3395). It is recommended the Permittee submit the application at least 300 days before the expiration date of the current Class I operating permit.



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Section I. General Conditions (continued)

- T. NAC 445B.3443 (continued)
Renewal of permit (continued)
5. If an application for the renewal of a Class I operating permit is not submitted in accordance with NAC 445B.3443(2):
 - a. The stationary source may be required to cease operation when the Class I operating permit expires; and
 - b. The Permittee of the stationary source:
 - (1) Must apply for the issuance of a new Class I operating permit pursuant to NAC 445B.3375; and
 - (2) May not recommence the operation until the new Class I operating permit is issued.
 6. The fee for the issuance of a new Class I operating permit or the renewal of a Class I operating permit is specified in NAC 445B.327.
- U. Nevada Revised Statute (NRS) 445B.470
Prohibited acts; penalty; establishment of violation; request for prosecution
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 NRS 445B.470(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.
- V. ASIP NAC Article 2.5.4
Breakdown or upset, determined by the Director to be unavoidable and not the result of careless or marginal operations, shall not be considered a violation of these regulations.
- W. 40 CFR 52.21(r)(4)
At such time that the Permittee becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 paragraphs (j) through (s) of this section shall apply to the source or modification as though construction had not yet commenced on the source or modification.

*****End of General Conditions*****



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Section II. Construction Conditions

A. Not Applicable.

*****End of Construction Conditions*****

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Section III. Ambient Air Monitoring Requirements

A. Not Applicable.

*****End of Ambient Air Monitoring Requirements*****

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Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014

System 01 – Wartsila Power Plant		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.001	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #1	4,381,883	284,350
S2.002	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #2	4,381,885	284,350
S2.003	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #3	4,381,885	284,353
S2.004	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #4	4,381,910	284,354
S2.005	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #5	4,381,910	284,351
S2.006	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #6	4,381,912	284,351
S2.007	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #7	4,381,912	284,354
S2.008	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #8	4,381,966	284,356
S2.009	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #9	4,381,966	284,353
S2.010	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #10	4,381,968	284,353
S2.011	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #11	4,381,968	284,356
S2.012	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #12	4,381,993	284,356
S2.013	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #13	4,381,993	284,353
S2.014	Wartsila Natural-Gas Reciprocating Internal Combustion Engine #14	4,381,995	284,353

1. Air Pollution Control Equipment (NAC 445B.3405)

- a. Emissions from **S2.001 through S2.014** shall be controlled by the following:
 - (1) A **Selective Catalyst Reduction (SCR)** system for the control of oxides of nitrogen (NO_x)
 - (2) An **Oxidation Catalyst** system for control of carbon monoxide (CO), volatile organic compounds (VOC), and hazardous air pollutants (HAPs), specifically including, but not limited to, formaldehyde.
 - (3) The catalyst beds of the **SCR** and **Oxidation Catalyst**, each, shall be maintained between 500° F and 932° F during steady-state operations.
 - (4) The **SCR** shall utilize urea/ammonia injection into the **SCR** maintained between 0.7 gal/hr and 15 gal/hr during steady-state operations.
- b. Descriptive Stack Parameters
 Stack Height: 54.82 feet
 Stack Diameter: 3.74 feet
 Stack Temperature: 726 °F
 Exhaust Flow: 28,000 dry standard cubic feet per minute (dscfm)

2. Operating Parameters (NAC 445B.3405)

- a. **S2.001 through S2.014**, each, may consume only **Pipeline Quality Natural Gas**.
- b. The maximum allowable fuel consumption rate for **S2.001 through S2.014**, each, shall not exceed **87,593.32 standard cubic feet (scf)** per hour, averaged over a calendar day.
- c. A “**cold catalyst start**” shall be defined as an engine start-up where the catalyst temperature is less than 110 degrees Celsius. Catalyst temperature shall be determined by the temperature gauge required in A.4.b.(1) of this section.
- d. A “**warm catalyst start**” shall be defined as an engine start-up where the catalyst temperature equals or exceeds 110 degrees Celsius. Catalyst temperatures shall be determined by the temperature gauge required in A.4.b.(1) of this section.
- e. “**Steady-state operation**” shall be defined as the period during which S2.001-S2.014 has reached a stable load at least 30 minutes after engine start-up and the catalyst beds have reached at least 500°F, consistent with normal operating conditions. The SCR and Oxidation Catalyst shall be fully engaged and functioning as intended during this period.
- e. Hours
S2.001 through S2.014, each, may operate a total of **24** hours per day during **steady state** operations.



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Issued to: NEVADA GOLD MINES LLC – WESTERN 102 PLANT (AS PERMITTEE)

Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014 (continued)

2. Operating Parameters (NAC 445B.3405) (continued)

g. **S2.001 through S2.014**, each, shall not be started with a cold engine block. A cold engine block shall be defined as the engine block at ambient temperature or colder.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)

The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.001 through S2.014**, each, the following pollutants in excess of the following specified limits:

- a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **2.59** pounds per hour, nor more than **11.3** tons per 12-month rolling period.
- b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **2.59** pounds per hour, nor more than **11.3** tons per 12-month rolling period.
- c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **2.59** pounds per hour, nor more than **11.3** tons per 12-month rolling period.
- d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.66** pounds per hour, nor more than **2.89** tons per 12-month rolling period.
- e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed:
 - (1) **1.70** pounds per hour, nor more than **7.44** tons per 12-month rolling period, during steady state operation.
 - (2) **17.0** pounds per 30-minute interval, during cold catalyst start-up.
 - (3) **10.0** pounds per 30-minute interval, during warm catalyst start-up.
- f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed:
 - (1) **2.77** pounds per hour, nor more than **12.1** tons per 12-month rolling period, during steady state operation.
 - (2) **20.0** pounds per 30-minute interval, during cold catalyst start-up.
 - (3) **15.0** pounds per 30-minute interval, during warm catalyst start-up.
- g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed:
 - (1) **2.77** pounds per hour, nor more than **12.1** tons per 12-month rolling period, during steady state operation.
 - (2) **2.50** pounds per 30-minute interval, during cold catalyst start-up.
 - (3) **1.70** pounds per 30-minute interval, during warm catalyst start-up.
- h. NAC 445B.22017 – The opacity from the final exhaust stack of **S2.001 through S2.014**, each, shall not equal or exceed **20** percent.
- i. NAC 445B.2203 – The maximum allowable discharge of **PM₁₀** to the atmosphere from **S2.001 through S2.014**, each, shall not exceed **0.36** pounds per MMBtu.
- j. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.001 through S2.014**, each shall not exceed **61.3** pounds per hour.
- k. The discharge of **HAPs** (hazardous air pollutants) to the atmosphere shall not exceed **0.39** pounds per hour.
- l. The discharge of any one **HAP** to the atmosphere from the stack discharge of **S2.001 through S2.014**, combined, shall not exceed **9.99** tons per 12-month rolling period.
- m. The discharge of **formaldehyde** to the atmosphere for the stack discharge of **S2.001 through S2.014**, combined, shall not equal to or exceed the annual emission limit specified in Section V.A.1 of this operating permit.

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

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. Natural Gas

- (1) Monitor and record the consumption rate of **Pipeline Quality Natural Gas** on a daily basis for **S2.001 through S2.014**, each, (in scf).
- (2) Calibrate, operate, and maintain a fuel flow meter to continuously record the quantity (in scf) of the **Pipeline Quality Natural Gas** for each calendar day for **S2.001 through S2.014**, each.



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Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (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.

a. Natural Gas (continued)

- (3) Record the corresponding average hourly consumption rate in standard cubic feet (scf) per hour. The average hourly consumption rate shall be determined from the total daily consumption and the total daily hours of operation.
- (4) Record the consumption rate of **Pipeline Quality Natural Gas**, in scf, on a cumulative monthly basis, for each 12-month rolling period.

b. SCR

- (1) Calibrate, operate, and maintain a temperature gauge to continuously record the temperature (in Fahrenheit or Celsius) of the **SCR** catalyst bed outlet.
- (2) Calibrate, operate, and maintain a flow indicator to continuously record the urea/ammonia sent to the **SCR** catalyst bed.
- (3) Configure, operate and maintain the **SCR** monitoring computer systems and engine computer systems for **S2.001 through S2.014**, each to:
 - (a) Automatically record and alert if the ammonia/urea injection is not within manufacturer's specifications as required to achieve manufacturer's guaranteed emission reductions for the **SCR** system using the flow indicator required in **A.4.b.(2)** of this Section. The alert shall include an alarm that requires the Permittee's response to de-activate the alarm.
 - (b) Automatically record and alert if the catalyst bed temperature is not within the manufacturer's specifications as required to achieve manufacturer's guaranteed emission reductions for the **SCR** system using the gauge required in **A.4.b.(1)** of this Section. The alert shall include an alarm that requires the Permittee's response to de-activate the alarm.
 - (c) Should either the urea/ammonia alarm or catalyst bed temperature alarm be activated, the Permittee shall investigate the alarm within 1-hour from the time the alarm notice began and record the alarm event within 24 hours. Record of the alarm event shall include the corresponding alert message, cause of the alarm, date, time, and course of remediation.
- (4) Using the monitoring in **A.4.b.(2)** of this Section, monitor and record the quantity of urea/ammonia injected into the **SCR** of **S2.001 through S2.014**, each on a daily basis.
- (5) Monitor and record the corresponding average hourly throughput rate of urea/ammonia in gallons per hour. The average hourly throughput rate will be determined from the total daily throughput rate and the total daily hours of operation recorded in **A.4.c.(1)** and **A.4.b.(4)** of this Section, respectively.
- (6) Monitor the Wartsila Engine Controls System computers and emissions control systems computers of **S2.001 through S2.014**, each, on a daily basis for any warning messages. Record the message(s) and schedule the required corrective maintenance.

c. Hours

- (1) Monitor and record the hours of **steady-state operation** for **S2.001 through S2.014**, each, on a daily basis.
- (2) Monitor and record the number of each **cold catalyst start-ups** as defined under **A.2.c.** of this Section, for **S2.001 through S2.014**, each, on a daily basis.
- (3) Monitor and record the number of each **warm catalyst start-ups** as defined under **A.2.d.** of this Section, for **S2.001 through S2.014**, each, on a daily basis.



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Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405) (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.

d. Emissions

- (1) Calculate the total emissions from **S2.001 through S2.014** in tons on a monthly basis using the average hourly throughput rate of **Pipeline Quality Natural Gas** calculated in **A.4.a.(3)** of this Section, the emission factors established in **A.5.l.** of this section for each engine, and the **Natural Gas** heat content as recorded in **A.5.k.** of this Section. Calculate the monthly total for PM, PM₁₀, PM_{2.5}, NO_x, CO, VOCs, and Formaldehyde. When performing the monthly calculations, the Permittee shall add the emissions of the **cold catalyst start-ups** and **warm catalyst start-ups** as recorded in **A.4.c.(2)** and **A.4.c.(3)** of this Section, respectively using the manufacturer's **cold catalyst start-up** and **warm catalyst start-up** emissions values.
- (2) Calculate the 12-month rolling total emissions from **S2.001 through S2.014**, each, in tons on a monthly basis for PM, PM₁₀, PM_{2.5}, NO_x, CO, VOCs, and Formaldehyde. Sum the total emissions of the previous consecutive 12 months as calculated in **A.4.d.(1)** of this Section.
- (3) Calculate the **SO₂** emissions total from **S2.001 through S2.014**, each, in tons on an annual basis based on grains of sulfur per dry standard cubic foot of **Pipeline Quality Natural Gas** combusted as specified by the fuel supplier

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1))

The Permittee, upon issuance of this operating permit, shall conduct and record annual performance testing within 90 days of the anniversary date of the previous initial performance testing or annual performance testing, and annually 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.I.** Testing and Sampling (NAC 445B.252) of this operating permit. Material sampling must be conducted in accordance with protocols approved by the Director. 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 and Method 202 in Appendix M of 40 CFR Part 51 shall be used to determine PM₁₀ and PM_{2.5} 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 and 202 test required in this section may be replaced by a Method 5 in Appendix A of 40 CFR Part 60 and Method 202 in Appendix M of 40 CFR Part 51 test. All particulate captured in the Method 5 and Method 202 test performed under this provision shall be considered PM_{2.5} for determination of compliance.
- f. Method 7E in Appendix A of 40 CFR Part 60 shall be used to determine the nitrogen oxides concentration. Each test will be run for a minimum of one hour.
- g. 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.
- h. Method 10 in Appendix A of 40 CFR Part 60 shall be used to determine the carbon monoxide concentration. Each test will be run for a minimum of one hour.
- i. Method 25A in Appendix A of 40 CFR Part 60 shall be used to determine the volatile organic compound concentration. Method 18 in Appendix A of 40 CFR Part 60 or Method 320 in Appendix A of CFR Part 63 may be used in conjunction with Method 25A to break out the organic compounds that are not considered VOC's by definition per 40 CFR 51.100(s). Each Method 25A test will be run for a minimum of one hour.



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Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014 (continued)

5. Performance and Compliance Testing (NAC 445B.3405, (NAC 445B.252(1)) (continued)
The Permittee, upon issuance of this operating permit, shall conduct and record annual performance testing within 90 days of the anniversary date of the previous initial performance testing or annual performance testing, and annually thereafter, in accordance with the following:
 - j. Method 320 or 323 of 40 CFR Part 63 or ASTM D6348-03 (the percent R must be greater than or equal to 7 and less than or equal to 130) shall be used to determine formaldehyde emissions.
 - k. In addition to the test information required to be submitted, during each performance test, record the type, quantity, and heat content value of **Pipeline Quality Natural Gas** combusted. The fuel heat content (in units of BTU per dry standard cubic feet) may be determined from fuel supplier certifications.
 - l. As a result of each compliance test performed, establish an emission factor (in units of lb/MMBtu) at the maximum operating fuel consumption rate limit established in **A.2.b.** of this Section for PM, PM₁₀, PM_{2.5}, NO_x, CO, VOC, and formaldehyde for **S2.001 through S2.014**, each.

6. Federal Requirements
National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines
 - a. Emissions Limitations, Management Practices and Other Requirements (40 CFR 63.6603(a), Table 2d)
For each non-emergency stationary SI RICE, the Permittee must meet the following requirement, except during periods of startup:
 - (1) Install an oxidation catalyst to reduce HAP emissions from the stationary RICE.
 - b. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625)
 - (1) The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in **A.3.a** of this section. (40 CFR 63.6625(h))
 - c. Compliance Requirements (40 CFR 63.6605, 63.6635, 63.6640, Table 6)
 - (1) The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in Subpart ZZZZ that apply at all times. (40 CFR Part 63.6605(a))
 - (2) The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR Part 63.6605(b))
 - (3) The Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in **A.3.a** of this section that applies to the Permittee according to methods specified below: (40 CFR 63.6640(a), Table 6)
 - (a) The Permittee must install an oxidation catalyst while meeting the following requirements:
 - (i) Conduct annual compliance demonstrations as specified in 40 CFR 63.6640(c) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O₂; and either
 - (ii) Collect the catalyst inlet temperature data according to 40 CFR 63.6625(b), reducing these data to 4-hour rolling averages; and maintain the 4-hour rolling averages within the limitation of greater than 450 °F and less than or equal to 1350 °F for the catalyst inlet temperature; or
 - (iii) Immediately shut down the engine if the catalyst inlet temperature exceeds 1350 °F.
 - (4) The annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the requirements under 40 CFR Part 63.6640(c)(1) through (7). (40 CFR 63.6640(c))



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Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014 (continued)

6. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines

c. Compliance Requirements (40 CFR 63.6605, 63.6635, 63.6640, Table 6) (continued)

- (5) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a). (40 CFR 63.6640(d))
- (6) The Permittee must also report each instance in which the Permittee did not meet the requirements in Table 8 of Subpart ZZZZ. (40 CFR 63.6640(e))

d. Notification, Reporting, and Recordkeeping Requirements: (40, CFR Part 63.6645, 40 CFR Part 63.6650, 40 CFR Part 63.6655)

- (1) The Permittee must submit all of the notifications that apply by the dates specified under the following: 40 CFR 63.7(b) and (c); 40 CFR 63.8(e), (f)(4), and (f)(6); 40 CFR 63.9(b) through (e), (g), and (h). (40 CFR 63.6645(a))
- (2) If the Permittee is required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 of this subpart, the Permittee must submit a Notification of Compliance Status according to 40 CFR Part 63.9(h)(2)(ii). (40 CFR 63.6645(h))
- (3) The Permittee must submit each report in Table 7 of this subpart that applies. (40 CFR 63.6650(a))
- (4) Unless the Administrator has approved a different schedule for submission of reports under 40 CFR Part 63.10(a), the Permittee must submit each report by the date in Table 7 of this subpart and according to the requirements in 40 CFR Part 63.6650(b)(1) through (b)(9). (40 CFR 63.6650(b))
- (5) The Compliance report must contain the information in 40 CFR Part 63.6650(c)(1) through (6). (40 CFR 63.6650(c))
- (6) Each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR Part 70.6(a)(3)(iii)(A) or 40 CFR Part 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR Part 70.6(a)(3)(iii)(A) or 40 CFR Part 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. (40 CFR 63.6650(f))
- (7) The Permittee must keep the following records:
 - (a) A copy of each notification and report that the Permittee submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that the Permittee submitted, according to the requirement in 40 CFR Part 63.10(b)(2)(xiv). (40 CFR 63.6655(a)(1))
 - (b) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.6655(a)(2))
 - (c) Records of performance tests and performance evaluations as required in 40 CFR Part 63.10(b)(2)(viii). (40 CFR 63.6655(a)(3))
 - (d) Records of all required maintenance performed on the RICE and any air pollution control and monitoring equipment. (40 CFR 63.6655(a)(4))
 - (e) Records of actions taken during periods of malfunction to minimize emissions in accordance with **A.6.c.(2)** of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.6655(a)(5))
 - (f) The Permittee must keep the records required in with **A.6.c.(3)** of this section to show continuous compliance with each emission or operating limitation that applies. (40 CFR 63.6655(d))



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Section IV. Specific Operating Conditions

A. Emission Units S2.001 through S2.014 (continued)

6. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines

d. Notification, Reporting, and Recordkeeping Requirements: (40, CFR Part 63.6645, 40 CFR Part 63.6650, 40 CFR Part 63.6655)(continued)

(7) The Permittee must keep the following records:

(g) The Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. (40 CFR 63.6655(e))

7. Compliance Assurance Monitoring (CAM) – (40 CFR 64.1, et.seq.)

The Permittee, upon issuance of this operating permit, shall conduct monitoring, recordkeeping, and reporting for the SCR as listed in **Table A -1** below:

Table A -1: Part 64 CAM Monitoring for the controls on SCR		
CAM Performance Indicator=>	Catalyst Bed Outlet Temperature	Urea/Ammonia Injection Rate
Measurement Approach	Install, calibrate, operate, and maintain a temperature gauge (thermocouple) to continuously (every 5 minutes) record the temperature of the SCR catalyst bed.	Install, calibrate, operate, and maintain a flow indicator to continuously (every 5 minutes) record the urea/ammonia Sent to the SCR catalyst.
Indicator Range	Except during periods of start-up, an excursion will be defined as a temperature of less than 500°F and greater than 932°F. Excursions trigger an inspection, corrective action, and a reporting requirement. A computer system will automatically record and alert if the catalyst bed temperature is not within the indicated range.	Except during periods of start-up, an excursion will be defined as a Urea/Ammonia flow of less than 0.70 gallons of Urea/Ammonia per hour and greater than 15.0 gallons per hour. Excursions trigger an inspection, corrective action, and a reporting requirement. A computer system will automatically record and alert if the Urea/Ammonia is not within the indicated range.
Operation of Approved Monitoring	Permittee shall comply with the applicable provisions of 40 CFR 64.7.	
Reporting	Permittee shall comply with the applicable <i>General Reporting Requirements</i> set forth in 40 CFR 64.9(a).	
Recordkeeping	Permittee shall comply with the applicable <i>General Recordkeeping Requirements</i> set forth in 40 CFR 64.9(b).	



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Section IV. Specific Operating Conditions

B. Emission Unit S2.015

System 02 – Emergency Diesel Generator (190 hp)		Location UTM (Zone 11, NAD 83)	
		m North	m East
S2.015	Emergency Diesel Generator (190 HP, Manufacturer John Deere, Manufactured 2002 or earlier)	4,381,933	284,324

1. Air Pollution Control Equipment (NAC 445B.3405)
 - a. **S2.015** has no add-on controls.
 - b. Descriptive Stack Parameters
 Stack Height: 29.5 feet
 Stack Diameter: 0.5 feet
 Stack Temperature: 900 °F

2. Operating Parameters (NAC 445B.3405)
 - a. **S2.015** may consume only **ultra-low sulfur diesel (ULSD)**.
 - b. The maximum allowable fuel consumption rate for **S2.015** shall not exceed **9.1 gallons** per hour, averaged over a calendar day, nor more than **910.0 gallons** per 12-month rolling period of non-emergency use.
 - c. Hours
 - (1) **S2.015** may operate a total of **24** hours per day.
 - (2) **S2.015** may operate a total of **100** hours per year of non-emergency use. There is no time limit on operation in emergency situations.

3. Emission Limits (NAC 445B.305, NAC 445B.3405)
 The Permittee, upon issuance of this operating permit, shall not discharge or cause the discharge into the atmosphere from **S2.015** the following pollutants in excess of the following specified limits:
 - a. The discharge of **PM** (particulate matter) to the atmosphere shall not exceed **0.39** pounds per hour, nor more than **0.019** tons per 12-month rolling period.
 - b. The discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **0.39** pounds per hour, nor more than **0.019** tons per 12-month rolling period.
 - c. The discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **0.39** pounds per hour, nor more than **0.019** tons per 12-month rolling period.
 - d. The discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **0.063** pounds per hour, nor more than **0.0032** tons per 12-month rolling period.
 - e. The discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **5.54** pounds per hour, nor more than **0.28** tons per 12-month rolling period.
 - f. The discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **1.19** pounds per hour, nor more than **0.060** tons per 12-month rolling period.
 - g. The discharge of **VOCs** (volatile organic compounds) to the atmosphere shall not exceed **0.44** pounds per hour, nor more than **0.022** tons per 12-month rolling period.
 - h. NAC 445B.22017 – The opacity from the **S2.015** shall not equal or exceed **20** percent.
 - i. NAC 445B.22047 – The maximum allowable discharge of **sulfur** to the atmosphere from **S2.015** shall not exceed **0.88** pounds per hour.



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Section IV. Specific Operating Conditions

B. Emission Unit S2.015 (continued)

4. Monitoring, Recordkeeping, and Reporting (NAC 445B.3405)

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 consumption rate of **diesel** for each calendar day for **S2.015** (in gallons) by multiplying the hourly fuel consumption rate as stated in **B.2.b** of this section and the total daily hours of operation. The corresponding average hourly fuel consumption rate in gallons per hour as determined from the maximum engine size, brake-specific fuel consumption, and heat content.
- b. Record the consumption rate of **diesel**, in gallons, on a cumulative monthly basis, for each 12-month rolling period.
- c. Keep on site, and make available upon request, documentation demonstrating the purchase and use of ULSD consumed for **S2.015**.
- d. Monitor and record the total daily hours of operation for **S2.015** for each calendar day of operation. The Permittee shall note which hours of operation are emergency hours, and which hours of operation are hours for non-emergency use.
- e. Record the monthly hours of operation and the corresponding annual hours of operation for the year. The monthly hours of operation shall be determined at the end of each month as the sum of daily hours of operation for each day of the month. The annual hours of operation shall be determined at the end of each month as the sum of the monthly hours of operation for the year.

5. Federal Requirements

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines

a. Emissions Limitations, Management Practices and Other Requirements (40 CFR 63.6603(a), Table 2d)

For each Emergency stationary CI RICE and black start stationary CI RICE, the Permittee must meet the following requirement, except during periods of startup:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

b. Fuel Requirements (40 CFR 63.6604)

The Permittee must meet the following diesel requirements for non-road engine: (40 CFR 63.6604, 40 CFR 1090.305)

- (1) Sulfur content to be 15 parts per million (ppm) maximum.
- (2) Cetane index or aromatic content as follows:
 - (a) A minimum cetane index of 40; or
 - (b) A maximum aromatic content of 35 volume percent.

c. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625)

- (1) The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop the Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR 63.6625(e))
- (2) The Permittee must install a non-resettable hour meter if one is not already installed. (40 CFR 63.6625(f))
- (3) The Permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in **B.5.a** of this section. (40 CFR 63.6625(h))



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Section IV. Specific Operating Conditions

B. Emission Unit S2.015 (continued)

5. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

c. Monitoring, Installation, Collection, Operation, Maintenance Requirements (40 CFR 63.6625) (continued)

(4) The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in **B.5.a.(1)** of this section. The oil analysis must be performed at the same frequency specified for changing the oil in **B.5.a.(1)** of this section. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. (40 CFR 63.6625(i))

d. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6)

- (1) The Permittee must be in compliance with the emission limitations, operating limitations, and other requirements in Subpart ZZZZ that apply at all times. (40 CFR Part 63.6605(a))
- (2) The Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (40 CFR Part 63.6605(b))
- (3) Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in **B.5.a** of this section according to methods specified below: (40 CFR 63.6640(a), Table 6)
 - (a) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
 - (b) Develop and follow Permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- (4) The Permittee must operate the emergency stationary RICE according to the requirements in **B.5.d.(4)(a) through (c)** of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in **B.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee does not operate the engine according to the requirements in **B.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 63.6640(f))
 - (a) There is no time limit on the use of emergency stationary RICE in emergency situations. (40 CFR 63.6640(f)(1))



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B. Emission Unit S2.015 (continued)

5. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

d. Compliance Requirements (40 CFR 63.6605, 63.6640, Table 6) (continued)

- (4) The Permittee must operate the emergency stationary RICE according to the requirements in **B.5.d.(4)(a) through (c)** of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in **B.5.d.(4)(a) through (c)** of this section, is prohibited. If the Permittee does not operate the engine according to the requirements in **B.5.d.(4)(a) through (c)** of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (40 CFR 63.6640(f)) (continued)
- (b) The Permittee may operate their emergency stationary RICE for any combination of the purposes specified in **B.5.d.(4)(b)(i)** of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by **B.5.d.(4)(c)** of this section counts as part of the 100 hours per calendar year. (40 CFR 63.6640(f)(2))
 - i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. (40 CFR 63.6640(f)(2)(i))
 - (c) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in **B.5.d.(4)(b)** of this section. Except as provided in **B.5.d.(4)(c)(ii)** of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 63.6640(f)(4))
 - ii. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 63.6640(f)(4)(ii)(A) through (E) are met. (40 CFR 63.6640(f)(4)(ii))

e. Recordkeeping Requirements (40 CFR Part 63.6655)

The Permittee must keep the following records:

- (1) A copy of each notification and report that the Permittee submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the Permittee submitted, according to the requirement in 40 CFR Part 63.10(b)(2)(xiv). (40 CFR 63.6655(a)(1))
- (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.6655(a)(2))
- (3) Records of performance tests and performance evaluations as required in 40 CFR Part 63.10(b)(2)(viii). (40 CFR 63.6655(a)(3))
- (4) Records of all required maintenance performed on the RICE and any air pollution control and monitoring equipment. (40 CFR 63.6655(a)(4))
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with **B.5.d.(2)** of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.6655(a)(5))
- (6) The Permittee must keep the records required in with **B.5.d.(3)** of this section to show continuous compliance with each emission or operating limitation that applies. (40 CFR 63.6655(d))



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B. Emission Unit S2.015 (continued)

5. Federal Requirements (continued)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR Part 63 Subpart ZZZZ – for Stationary Reciprocating Internal Combustion Engines (continued)

e. Recordkeeping Requirements (40 CFR Part 63.6655)(continued)

- (7) The Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to their own maintenance plan. (40 CFR 63.6655(e))
- (8) The Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR Part 63.6640(f)(2)(ii) or (iii), or 40 CFR Part 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. (40 CFR 63.6655(f))

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



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Section V. Emission Caps

A. Cap for Emission Units S2.001 through S2.014

1. Emission Limits (NAC 445B.305, NAC 445B.3405)

While operating under the provisions of this Section, the emission limits specified in Section IV.A.3. of this operating permit do not apply for those pollutants limited under A.1. of this Section. On and after the date of start-up of S2.001 through S2.014 and during periods specified by the Permittee as operating under the provisions of this Section, the Permittee shall not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

- a. The combined discharge of **PM** (particulate matter) to the atmosphere shall not exceed **158.76** tons per 12-month rolling period.
- b. The combined discharge of **PM₁₀** (particulate matter less than or equal to 10 microns in diameter) to the atmosphere shall not exceed **158.76** tons per 12-month rolling period.
- c. The combined discharge of **PM_{2.5}** (particulate matter less than or equal to 2.5 microns in diameter) to the atmosphere shall not exceed **158.76** tons per 12-month rolling period.
- d. The combined discharge of **SO₂** (sulfur dioxide) to the atmosphere shall not exceed **40.5** tons per 12-month rolling period.
- e. The combined discharge of **NO_x** (oxides of nitrogen) to the atmosphere shall not exceed **106.7** tons per 12-month rolling period.
- f. The combined discharge of **CO** (carbon monoxide) to the atmosphere shall not exceed **152.32** tons per 12-month rolling period.
- g. The combined discharge of **VOC** (volatile organic compounds) to the atmosphere shall not exceed **149.52** tons per 12-month rolling period.
- h. The combined discharge of **Formaldehyde** to the atmosphere shall not exceed **9.94** tons per 12-month rolling period.
- i. The emission limits in this paragraph apply at all times, including start-ups, shutdowns, and normal operations.

2. Monitoring, Recordkeeping, Reporting, and Compliance

- a. The Permittee shall perform monitoring, recordkeeping, and reporting as specified in Section IV.A.4. of this operating permit.
- b. When operating under this Section, the Permittee must record in a contemporaneous log all monitoring and recordkeeping information required under A.2.a. of this Section. In addition, a reference must be included in the contemporaneous log that identifies that all of the emission units specified in this Section are operating under the provisions of Section IV.A.2. of this operating permit.

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



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Section VI. Surface Area Disturbance Conditions

The surface area disturbance for **Western 102 Power Plant** is **27.8** acres.

A. Fugitive Dust (NAC 445B.22037)

1. The Permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in NAC 445B.22037(4), the Permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in NAC 445B.22037, “best practical methods” includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in NAC 445B.22037(4), the Permittee may not disturb or cover 5 acres or more of land or its topsoil until Permittee has obtained an Operating permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of NAC 445B.22037(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 VII. Schedules of Compliance

A. Not Applicable

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

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Section VIII. Amendments

This permit:

1. Shall be posted conspicuously at or near the stationary source. (NAC 445B.318(5))
2. Shall expire and be subject to renewal five (5) years from: December 15, 2026 .
(NAC 445B.315(3)(a))
3. A completed application for renewal of an operating permit must be submitted to the Director on the form provided by the Director with the appropriate fee at least 240 calendar days before the expiration date of this operation permit (NAC 445B.3443(2)). The Director shall determine whether the application is complete within 60 days of receipt of the application (NAC 445B.3395).
4. Any party aggrieved by the Department’s decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department’s action. (NRS 445B.340)

THIS PERMIT EXPIRES ON: December 15, 2031

Signature: _____

Issued by: Jaimie Mara
Supervisor, Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687- 9343 **Date:** Signature Date



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Class I Non-Permit Equipment List

Appended to Permit #AP4911-2189.04

Emission Unit #	Emission Unit Description
N/A	N/A

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