

Bureau of Air Pollution Control

Facility ID No. A0016

Permit No. AP4911-2189.01

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: BARRICK GOLDSTRIKE MINES INC. – WESTERN 102 POWER PLANT, as Permittee

Section VI. Specific Operating Conditions

A. Emission Units #S2.001 – S2.014

A. System 01 - Wartsila Power Plant		UTM Zone 11 (meters) NAD 83	
		Easting	Northing
S2.001	Wartsila Natural-gas reciprocating internal combustion engine #1	284,353	4,381,995
S2.002	Wartsila Natural-gas reciprocating internal combustion engine #2	284,353	4,381,993
S2.003	Wartsila Natural-gas reciprocating internal combustion engine #3	284,356	4,381,993
S2.004	Wartsila Natural-gas reciprocating internal combustion engine #4	284,353	4,381,968
S2.005	Wartsila Natural-gas reciprocating internal combustion engine #5	284,353	4,381,966
S2.006	Wartsila Natural-gas reciprocating internal combustion engine #6	284,356	4,381,966
S2.007	Wartsila Natural-gas reciprocating internal combustion engine #7	284,356	4,381,968
S2.008	Wartsila Natural-gas reciprocating internal combustion engine #8	284,351	4,381,912
S2.009	Wartsila Natural-gas reciprocating internal combustion engine #9	284,351	4,381,910
S2.010	Wartsila Natural-gas reciprocating internal combustion engine #10	284,354	4,381,910
S2.011	Wartsila Natural-gas reciprocating internal combustion engine #11	284,354	4,381,912
S2.012	Wartsila Natural-gas reciprocating internal combustion engine #12	284,350	4,381,885
S2.013	Wartsila Natural-gas reciprocating internal combustion engine #13	284,350	4,381,883
S2.014	Wartsila Natural-gas reciprocating internal combustion engine #14	284,353	4,381,885

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Equipment

a. Emissions from **S2.001 through S2.014 each** shall be ducted to the following emissions control systems with 100% capture and a maximum volume flow rate of 23,000 dry standard cubic feet per minute (DSCFM):

- (1) A Selective Catalyst Reduction (SCR) system for the control of oxides of nitrogen (NO_x).
- (2) An Oxidation Catalyst system for the control of carbon monoxide (CO), volatile organic compounds (VOCs) 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 at a temperature range identified by the manufacturer.
- (4) The SCR shall utilize urea/ammonia injection into the SCR at a volume specified by the manufacturer.

Stack Parameters (each Engine)

Stack Height (ft): 54.82

Stack Diameter (ft): 3.74

Stack Temperature (°F): 726

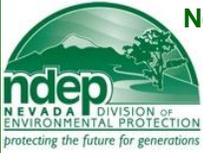
Exit Velocity (fps): 101

Volume Flow (DSCFM): 23,000

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. **S2.001 through S2.014 each** will combust pipeline quality natural gas only.
- b. The maximum fuel consumption rate of pipeline quality natural gas for **S2.001 through S2.014 each** will not exceed **77,000.0** dry standard cubic feet per any one-hour period.
- c. **S2.001 through S2.014 each** may operate **8,760** hours per calendar year.
- d. **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.



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Section VI. Specific Operating Conditions (continued)

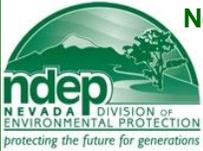
A. Emission Units S2.001 through S2.014 (continued)

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

On and after the date of startup of **S2.001 - S2.014 each**, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.001 - S2.014 each** the following pollutants in excess of the following specified limits:

- a. NAC 445B.305 Part 70 Program - The discharge of **PM** (particulate matter) to the atmosphere will not exceed **2.59** pounds per hour.
- b. NAC 445B.305 Part 70 Program – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **2.59** pounds per hour.
- c. NAC 445B.2203 Federally Enforceable SIP Requirement - The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.374** pound per million Btu in accordance with NAC 445B.2203.
- d. NAC 445B.22047 Federally Enforceable SIP Requirement - The discharge of **sulfur** to the atmosphere will not exceed **53.9** pounds per hour in accordance with NAC 445B.22047.
- e. NAC 445B.305 Part 70 Program - The discharge of **SO₂** (sulfur dioxide) to the atmosphere will not exceed **0.58** pounds per hour.
- f. NAC 445B.305 Part 70 Program - The discharge of **NO_x** (nitrogen oxides) to the atmosphere will not exceed:
 - (1) **1.49** pounds per hour, during steady state operation;
 - (2) **4.85** pounds per 15-minute interval, during cold catalyst start-up;
 - (3) **3.09** pounds per 15-minute interval, during warm catalyst start-up.
 - (i) A “warm catalyst start” shall be defined as an engine startup where the catalyst temperature equals or exceeds 200 degrees Celsius. A “cold catalyst start” shall be defined as an engine startup where the catalyst temperature is less than 200 degrees Celsius. Catalyst temperature shall be determined by the temperature gauge required in A.4.b.(2) of this Section.
- g. NAC 445B.305 Part 70 Program – The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed:
 - (1) **2.42** pounds per hour, during steady state operation;
 - (2) **7.94** pounds per 15-minute interval, during cold catalyst start-up;
 - (3) **4.85** pounds per 15-minute interval, during warm catalyst start-up;
 - (i) A “warm catalyst start” shall be defined as an engine startup where the catalyst temperature equals or exceeds 200 degrees Celsius. A “cold catalyst start” shall be defined as an engine startup where the catalyst temperature is less than 200 degrees Celsius. Catalyst temperature shall be determined by the temperature gauge required in A.4.b.(2) of this Section.
- h. NAC 445B.305 Part 70 Program - The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed:
 - (1) **2.42** pounds per hour, during steady state operation;
 - (2) **2.65** pounds per 15-minute interval, during cold catalyst start-up;
 - (3) **1.76** pounds per 15-minute interval, during warm catalyst start-up.
 - (i) A “warm catalyst start” shall be defined as an engine startup where the catalyst temperature equals or exceeds 200 degrees Celsius. A “cold catalyst start” shall be defined as an engine startup where the catalyst temperature is less than 200 degrees Celsius. Catalyst temperature shall be determined by the temperature gauge required in A.4.b.(2) of this Section.
- i. NAC 445B.305 Part 70 Program - The discharge of **HAPs** (hazardous air pollutants) to the atmosphere will not exceed **0.35** pound per hour.
- j. NAC 445B.305 Part 70 Program – The discharge of any one **HAP** to the atmosphere from the stack discharge of S2.001 through S2.014 **combined** will not equal or exceed **10.0** tons per year, based on each 12-month rolling period.
- k. NAC 445B.305 Part 70 Program – The discharge of **formaldehyde** to the atmosphere from the stack discharge of S2.001 through S2.014 **combined** will not equal or exceed the annual emission limit specified in A.1.g of Section VII.



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Section VI. Specific Operating Conditions (continued)

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

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

On and after the date of startup of **S2.001 - S2.014 each**, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.001 - S2.014 each** the following pollutants in excess of the following specified limits (continued):

I. NAC 445B.22017 Federally Enforceable SIP Requirement - The **opacity** from the stack discharge of S2.001 through S2.014 **each** will not equal or exceed 20% in accordance with NAC 445B.22017.

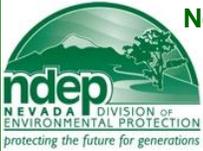
4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Compliance/Performance Testing

Permittee will conduct and record the following periodic compliance tests. The compliance tests will consist of three valid runs (except as provided under I.T.5. of this operating permit) and be conducted at the maximum achievable fuel combustion rate subject to A.2.c. of this Section.

Permittee will conduct and record the annual compliance test within 90 days of the anniversary date of the initial compliance testing.

- (1) Conduct and record a performance test for formaldehyde on the exhaust stack of **S2.001 through S2.014 each** consisting of three valid runs. Use either 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).
- (2) Conduct and record a Method 5 (with back-half catch) performance test for PM on the exhaust stack of **S2.001 through S2.014 each** consisting of three valid runs. The Method 5 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 5. The sample volume for each test run shall be at least 1.7 dscm (60 dscf). The sample time for each test run shall be at least 60 minutes.
- (3) Conduct and record a Method 201A and 202 performance test for PM₁₀ on the exhaust stack of **S2.001 through S2.014 each** consisting of three valid runs. The Method 201A and 202 emissions tests must be conducted in accordance with 40 CFR Part 51, Appendix M, Method 201A and 202. The Method 201A emissions test may be replaced by a Method 5 performance test, including back-half catch or Method 202. All particulate captured in the Method 5 with the back-half catch test will be considered PM₁₀ for compliance demonstration purposes.
- (4) Conduct and record a Method 7 performance test for NO_x on the exhaust stack of **S2.001 through S2.014 each** consisting of three valid runs. The Method 7 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 7.
- (5) Conduct and record a Method 10 performance test for CO on the exhaust stack of **S2.001 through S2.014 each** consisting of three valid runs. The Method 10 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 10.
- (6) Conduct and record a Method 25/25A performance test for VOCs on the exhaust stack of **S2.001 through S2.014 each** consisting of three valid runs. The Method 25/25A emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 25/25A.
- (7) Conduct and record a Method 9 visible emissions reading on the exhaust stack of **S2.001 through S2.014 each** concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with both a 6-minute average, and a 3-minute average is determined.
- (8) **The Permittee** shall give notice to the director 30 days before each 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 (NAC 445B.252.4).



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Section VI. Specific Operating Conditions (continued)

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

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*

a. Compliance/Performance Testing (continued)

Permittee will conduct and record the following periodic compliance tests. The compliance tests will consist of three valid runs (except as provided under I.T.5. of this operating permit) and be conducted at the maximum achievable fuel combustion rate subject to A.2.c. of this Section.

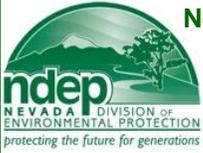
Permittee will conduct and record the annual compliance test within 90 days of the anniversary date of the initial compliance testing.

- (9) In addition to the test information required to be submitted, during each performance test record the type, quantity, and heat content value of the fuel combusted. The fuel heat content (dscf) may be determined from fuel supplier certifications.
- (10) As a result of each compliance test performed, establish an emission factor (in lb/MMBtu) at the maximum operating fuel consumption rate limit established in A.2.c. of this Section for PM, PM₁₀, NO_x, CO, VOC and formaldehyde for **S2.001 through S2.014 each**.
- (11) Within 60 days after completing the performance tests contained in A.4.a. of this Section, **the Permittee** shall furnish the director a written report of the results of the performance tests and the resultant emissions factors. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3689 (NAC 445B.252.8).
- (12) Permittee shall comply with the requirements in Sections I.S.3 through I.S.8 and I.T.3 through I.T.8 of this operating permit for all performance testing.

b. Monitoring

The Permittee will:

- (1) Install, calibrate, operate and maintain a fuel flow meter to continuously record the quantity (in standard cubic feet) of the pipeline quality natural gas combusted in **S2.001 through S2.014 each**. The fuel flow meter will be installed at an appropriate location in the fuel delivery system to accurately and continuously measure the fuel combusted in **S2.001 through S2.014 each**.
- (2) Install, calibrate, operate and maintain a temperature gauge to continuously record the temperature (in Fahrenheit or Celsius) of the SCR catalyst bed. The gauge will be installed at an appropriate location to accurately and continuously measure the temperature of the SCR catalyst bed of **S2.001 through S2.014 each**.
- (3) Install, calibrate, operate and maintain a flow indicator to continuously record the urea/ammonia sent to the SCR catalyst bed. The gauge will be installed at an appropriate location to accurately and continuously measure the urea/ammonia sent to the SCR catalyst of **S2.001 through S2.014 each**.
- (4) Configure, operate and maintain the SCR monitoring computer systems and engine computer systems for **S2.001 through S2.014 each** to:
 - i. 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.(3) of this Section. The alert shall include an alarm that requires **the Permittee's** response to de-activate the alarm.
 - ii. 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.(2) of this Section. The alert shall include an alarm that requires **the Permittee's** response to de-activate the alarm.
 - iii. 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 that 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.



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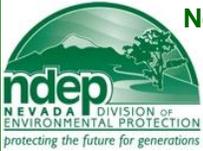
A. Emission Units S2.001 through S2.014 (continued)

4. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*

c. Recordkeeping

The Permittee will maintain a contemporaneous log containing at a minimum, the following recordkeeping for each day, or part of a day that **S2.001 through S2.014 each** is operating:

- (1) Monitor and record the hours of operation for **S2.001 through S2.014 each** on a daily basis.
- (2) Using the monitoring in A.4.b.(1) of this Section record the quantity of pipeline quality natural gas combusted for **S2.001 through S2.014 each** on a daily basis.
- (3) Using the monitoring in A.4.b.(3) of this Section record the quantity of urea/ammonia injected into the SCR of **S2.001 through S2.014 each** on a daily basis.
- (4) The required recordkeeping established in A.4.c.(1) – (3) of this Section will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
 - i. The calendar date of any required monitoring.
 - ii. The total daily hours of operation for the corresponding date.
 - iii. The total daily throughput rate of pipeline quality natural gas in standard cubic feet, for the corresponding date.
 - iv. The corresponding average hourly fuel consumption rate in standard cubic feet per hour. The average hourly fuel consumption rate will be determined from the total daily fuel consumption rate and the total daily hours of operation recorded in A.4.c.(1) and (2) of this Section.
 - v. The total daily throughput rate of urea/ammonia in gallons for the corresponding date.
 - vi. 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.(4) v. and A.4.c.(4) ii. of this Section.
 - vii. Monitor and record the number of warm catalyst starts for **S2.001 through S2.014 each** daily. A “warm catalyst start” shall be defined as an engine startup where the catalyst temperature equals or exceeds 200 degrees Celsius. Catalyst temperature shall be determined by the temperature gauge required in A.4.b.(2) of this Section. Record the warm catalyst start temperature.
 - viii. Monitor and record the number of cold catalyst starts for **S2.001 through S2.014 each** daily. A “cold catalyst start” shall be defined as an engine startup where the catalyst temperature is less than 200 degrees Celsius. Catalyst temperature shall be determined by the temperature gauge required in A.4.b.(2) of this Section. Record the cold catalyst start temperature.
 - ix. Monitor daily the Wartsila Engine Controls Systems computers and emission controls systems computers of **S2.001 through S2.014 each** for any warning messages. Record the message(s) and schedule the required corrective maintenance.
 - x. Calculate monthly the total emissions from **S2.001 through S2.014 each** in tons using the average hourly throughput rate of pipeline quality natural gas calculated in A.4.c.(4) iv. of this Section, the emission factors established in A.4.a.(10) of this Section for each engine and the pipeline quality natural gas heat content as recorded in A.4.a.(9) of this Section. Calculate the monthly total for PM, PM₁₀, NO_x, CO, VOCs and Formaldehyde. When performing the monthly calculations be sure to add the emissions of the cold catalyst starts and warm catalyst starts as recorded in A.4.c.(4) vii. through viii. of this Section using the manufacturer’s cold catalyst start and warm catalyst start emissions values.
 - xi. Calculate monthly the 12-month rolling total emissions from **S2.001 through S2.014 each** in tons for PM, PM₁₀, NO_x, CO, VOCs and Formaldehyde. Sum the total emissions of the previous consecutive 12 months as calculated in A.4.c.(4) x. of this Section.
 - xii. Calculate annually the SO₂ emissions total from **S2.001 through S2.014 each** in tons based on grains of sulfur per dry standard cubic foot of pipeline quality natural gas combusted as specified by the fuel supplier.



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Section VI. Specific Operating Conditions (continued)

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

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

c. Recordkeeping (continued)

The Permittee will maintain a contemporaneous log containing at a minimum, the following recordkeeping for each day, or part of a day that **S2.001 through S2.014 each** is operating:

- (5) Record the SCR catalyst bed temperature and urea/ammonia injection volume flow values for **S2.001 through S2.014 each** as determined by the manufacturer during engine setup as required to meet the manufacturer's guaranteed emissions reductions.

d. Reporting and Notification

The Permittee will:

- (1) Report all excess emissions as required in Sections III.B. and III.C. of this Operating Permit.
- (2) Report the results of the performance tests and opacity observations required in A.4.a. of this Section.
- (3) Report all deviations as required in Sections V.C. of this operating permit.

5. National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories

NESHAP for *Stationary Reciprocating Internal Combustion Engines (RICE)*, 40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580, et. seq.) – Existing stationary RICE located at an Area Source of HAP emissions (40 CFR 63.6590(a)(1)(iii))

- a. You (Permittee) must comply with the applicable *Emission Limitations* and *Operating Limitations* no later than October 19, 2013 (40 CFR 63.6595(a)(1)).

6. NAC 445B.3405 (NAC 445B.316) Part 70 Program

40 CFR Part 64 – Compliance Assurance Monitoring (CAM)

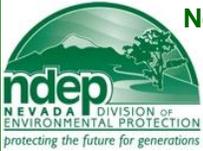
On and after the date of initial startup, Permittee will:

- a. Install, calibrate, operate, and maintain a temperature gauge (thermocouple) to continuously (every 5 minutes) record the temperature of the SCR catalyst bed of **S2.001 through S2.014 each**.
- b. Install, calibrate, operate, and maintain a flow indicator to continuously (every 5 minutes) record the urea/ammonia sent to the SCR catalyst bed of **S2.001 through S2.014 each**.
- c. For the indicator range of the catalyst bed outlet temperature, 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.
- d. For the indicator range of the Urea/Ammonia Injection Rate, except during periods of start-up, an excursion will be defined as a Urea/Ammonia flow of less than 1.6 gallons of Urea/Ammonia per hour and greater than 13.2 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.

7. NAC 445B.3405 (NAC 445B.316) Federally Enforceable Part 70 Program

Shielded Requirements

N/A



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Section VI. Specific Operating Conditions (continued)

B. Emission Unit #S2.015 location North 4,381.933 km, East 284.324 km, UTM (Zone 11)

System 02 – Emergency Diesel Generator

Table with 2 columns: S, 2.015 | Emergency Diesel Generator (170 HP) – Manufacture 2005

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Equipment

S2.015 has no add-on controls.

Descriptive Stack Parameters for S2.015

Stack Height (ft): 29.5

Stack Diameter (ft): 0.5

Stack Temperature: (°F): 900

Exhaust Flow (DSCFM): 424

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

a. S2.015 may combust only diesel fuel as the primary fuel.

b. The maximum combined diesel fuel consumption rate for S2.015 will not exceed 11 gallons per any one-hour period.

c. The maximum diesel fuel sulfur content shall not exceed 15 ppm by weight sulfur.

d. If you (Permittee) own or operate an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed (40 CFR 63.6625(f)).

e. Hours

S2.015 may operate up to 24 hours per day and up to 500 hours per calendar year for nonemergency use until May 3, 2013 after which the limit will be 100 hours per year.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

On and after the date of startup of S2.015, Permittee will not discharge or cause the discharge into the atmosphere from each stack discharge S2.015, the following pollutants in excess of the following specified limits:

a. NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed 0.47 pound per hour, nor more than 0.119 ton per year.

b. NAC 445B.305 Part 70 Program - The discharge of PM10 to (particulate matter less than 10 microns in diameter) the atmosphere will not exceed 0.47 pound per hour, nor more than 0.119 ton per year.

c. NAC 445B.22047 Federally Enforceable SIP Requirement - The discharge of sulfur to the atmosphere will not exceed 1.05 pound per hour in accordance with NAC 445B.22047.

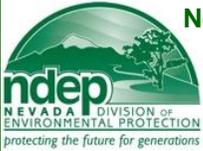
d. NAC 445B.305 Part 70 Program - The discharge of SO2 (sulfur dioxide) to the atmosphere will not exceed 0.44 pound per hour, nor more than 0.111 ton per year.

e. NAC 445B.305 Part 70 Program - The discharge of NOx (nitrogen oxides) to the atmosphere will not exceed 6.75 pound per hour, nor more than 1.687 ton per year.

f. NAC 445B.305 Part 70 Program - The discharge of CO (carbon monoxide) to the atmosphere will not exceed 1.45 pound per hour, nor more than 0.363 ton per year.

g. NAC 445B.305 Part 70 Program - The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed 0.55 pound per hour, nor more than 0.138 ton per year.

h. NAC 445B.22017 Federally Enforceable SIP Requirement - The opacity from the stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.



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Section VI. Specific Operating Conditions (continued)

B. Emission Unit #S2.015 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Monitoring

Permittee will:

- a. Monitor and record the quantity of diesel fuel filled into S2.015 each day filling occurs.
b. Monitor and record the number of hours S2.015 operated during each day of operation.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Recordkeeping

- a. The required monitoring established in 4.a. and 4.b. above will be maintained in a contemporaneous log containing, at a minimum, the following recordkeeping:
(1) The calendar date of any required monitoring.
(2) The total fuel filled into S2.015, in gallons, for the corresponding date, each day filling occurs.
(3) The total hours of operation for the corresponding date.
(4) The corresponding average hourly fuel consumption rate, in gallons per hour, computed by dividing the total fuel filled into S2.015, recorded in 5.a.2 above, by the total hours of operation recorded in 5.a.3 above.
(5) The monthly hours of operation and the corresponding sum of the monthly hours of operation beginning in January of each year to ensure compliance with the annual limit on operating hours, as specified in 2.g. of this section.

6. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Reporting

The Permittee will:

- a. Promptly report to the Director all deviations from the requirements of this Operating Permit; and
b. 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 and under Section III.B of this permit, or for reporting of an emergency (as defined by NAC 445B.326) under Section I.I. of this permit; and
c. 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 sections VI. and VII. of this operating permit.

7. National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories (Federal Only Requirement) NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580, et. seq.) – Existing stationary RICE located at an Area Source of HAP emissions (40 CFR 63.6590(a)(1)(iii))

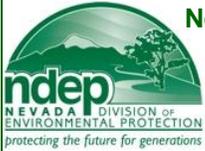
- a. Permittee will be required to comply with the applicable operating limitations no later than May 3, 2013 (40 CFR 63.6595(a)(1)).

8. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Shielded Requirements

N/A

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



Bureau of Air Pollution Control

Facility ID No. A0016

Permit No. AP4911-2189.01

**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: BARRICK GOLDSTRIKE MINES INC. – WESTERN 102 POWER PLANT, as Permittee

Section VII. Emission Caps

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

1. Emission Limits

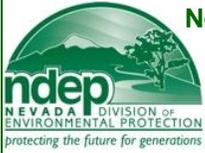
When operating under the provisions of Part A of this Section, the emission limits specified in **A.3.** of Section VI. of this operating permit do not apply for those pollutants limited under this paragraph. On and after the date of startup of **S2.001 through S2.014** and during periods specified by Permittee as operating under the provisions of Part A of this Section, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:

- a. The combined discharge of **PM** to the atmosphere will not exceed **158.76** tons per year, calculated on a 12-month rolling average.
- b. The combined discharge of **PM₁₀** to the atmosphere will not exceed **158.76** tons per year, calculated on a 12-month rolling average.
- c. The combined discharge of **NO_x** to the atmosphere will not exceed **93.80** tons per year, calculated on a 12-month rolling average.
- d. The combined discharge of **CO** to the atmosphere will not exceed **152.32** tons per year, calculated on a 12-month rolling average.
- e. The combined discharge of **VOC** to the atmosphere will not exceed **149.52** tons per year, calculated on a 12-month rolling average.
- f. The combined discharge of **SO₂** to the atmosphere will not exceed **35.56** tons per year, calculated on a 12-month rolling average.
- g. The combined discharge of **Formaldehyde** to the atmosphere will not equal or exceed **10.0** tons per year, calculated on a 12-month rolling average.
- h. The emission limits in this paragraph apply at all times, including startups, shutdowns, and normal operations.

2. Monitoring, Recordkeeping, Reporting and Compliance

- a. Permittee will perform monitoring, recordkeeping and reporting as specified in **A.4.** of Section VI. of this operating permit.
- b. When operating under Part A of this Section, Permittee must record in a contemporaneous log all monitoring and recordkeeping information required under 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 Part A of this Section are operating under the provisions of **A.2.** of Section VI. of this operating permit.

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



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Issued to: BARRICK GOLDSTRIKE MINES INC. – WESTERN 102 POWER PLANT, as Permittee

Section VIII. Surface Area Disturbance Conditions

A. Dust Control Plan (NRS 445B.230.6)

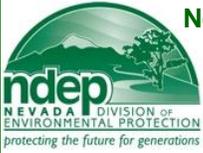
The permittee may not cause or permit the construction, repair, or demolition work, or the use of unpaved or untreated areas without applying all such measures as may be required by the Director to prevent particulate matter from becoming airborne.

1. Permittee will control fugitive dust in accordance with the dust control plan entitled “**Dust Control Plan**”, dated February 14, 2011.

B. 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 subsection 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 this subsection, “best practical methods” includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in subsection 4, the permittee may not disturb or cover 5 acres or more of land or its topsoil until the permittee has obtained an Permit to construct 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*******



Bureau of Air Pollution Control

Facility ID No. A0016

Permit No. AP4911-2189.01

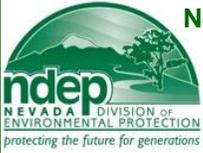
**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: BARRICK GOLDSTRIKE MINES INC. – WESTERN 102 POWER PLANT, as Permittee

Section IX. Schedules of Compliance

NA

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



Bureau of Air Pollution Control

Facility ID No. A0016

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SPECIFIC OPERATING REQUIREMENTS**

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Section X. Amendments

NA

This permit:

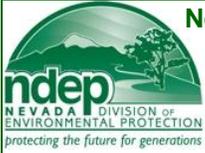
1. Is non-transferable. (NAC 445B.287) Part 70 Program
2. Will be posted conspicuously at or near the stationary source. (NAC 445B.318) State Only Requirement
3. Will expire and be subject to renewal five (5) years from December 15, 2011.
(NAC 445B.315) Part 70 Program
4. A complete application for renewal of an operating permit must be submitted to the director on the form provided by him with the appropriate fee at least 240 calendar days before the expiration date of this operating permit. (NAC 445B.3443.2) Part 70 Program
5. Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340) State Only Requirement

THIS PERMIT EXPIRES ON: December 15, 2016

Signature _____

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

Phone: (775) 687-9475 **Date:** March 15, 2013



CLASS I NON-PERMIT EQUIPMENT LIST

Appended to BARRICK GOLDSTRIKE MINES INC. – WESTERN 102 POWER PLANT #A0016 *Permit* #AP4911-2189.01

N/A: There are no units for the non-permit equipment list.