

Bureau of Air Pollution Control

Facility ID No. A0002

Permit No. AP1041-0793.01

CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS

Issued to: Newmont Mining Corporation – Gold Quarry Operations Area, as Permittee

Section IIA. Specific Construction Conditions

- A. NAC 445B.250 Notification of planned construction or reconstruction. (Federally Enforceable SIP Requirement)
Any owner or operator subject to the provisions of NAC 445B.001 to 4445B.3689, inclusive, shall furnish the Director written notification of:
1. The date that construction or reconstruction of Wet Scrubber (2300-DC-02) of System 03 is commenced, postmarked no later than 30 days after such date.
2. The anticipated date of initial start-up of Wet Scrubber (2300-DC-02) of System 03, postmarked not more than 60 days and not less than 30 days before such date.
3. The actual date of initial start-up of Wet Scrubber (2300-DC-02) of System 03, postmarked within 15 days after such date.

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



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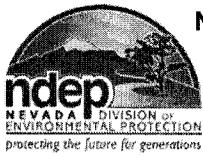
**CLASS I AIR QUALITY OPERATING PERMIT
SPECIFIC OPERATING REQUIREMENTS**

Issued to: Newmont Mining Corporation – Gold Quarry Operations Area, hereinafter called the permittee
Section VI. Specific Operating Conditions (continued)

C. Emission Units #'s S2.001 – S2.013 location North 4515.03 km, East 568.31 km, UTM (Zone 11)

C. System 03 - Mill 5 Ore Reclaim Transfer to SAG Mill and Cone Crusher Circuit		
S	2.001	Reclaim Feeder (2300-FE-09) discharge/transfer to SAG Mill Conveyor (2300-CV-14)
S	2.002	Reclaim Feeder (2300-FE-10) discharge/transfer to SAG Mill Conveyor (2300-CV-14)
S	2.003	Reclaim Feeder (2300-FE-11) discharge/transfer to SAG Mill Conveyor (2300-CV-14)
S	2.004	Conveyor (2300-FE-14) discharge/transfer to Secondary Cone Crusher (2300-CR-02)
S	2.005	Conveyor (2300-FE-15) discharge/transfer to Secondary Cone Crusher (2300-CR-03)
S	2.006	Secondary Cone Crusher (2300-CR-02)
S	2.007	Secondary Cone Crusher (2300-CR-03)
S	2.008	Secondary Cone Crusher (2300-CR-02) discharge/transfer to Conveyor (2300-CV-20)
S	2.009	Secondary Cone Crusher (2300-CR-03) discharge/transfer to Conveyor (2300-CV-21)
S	2.010	Conveyor (2300-CV-20) discharge/transfer to Conveyor (2300-CV-22)
S	2.011	Conveyor (2300-CV-21) discharge/transfer to Conveyor (2300-CV-22)
S	2.012	Conveyor (2300-CV-22) discharge/transfer to Mill Feed Conveyor (2300-CV-14)
S	2.013	Lime Silo - Unloading (2600-BN-02) discharge/transfer to Conveyor (2300-CV-14)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Equipment
Emissions from S2.001 - S2.013 each, shall be ducted to a control system consisting of a Wet Scrubber (2300-DC-02) with 100% capture and a maximum volume flow rate of 22,400 dry standard cubic feet per minute (DSCFM). The volumetric flow rate may be determined by utilizing Method 2 - Determination of Stack Gas Velocity and Volumetric Flow Rate as referenced in 40 CFR Part 60, Appendix A.
2. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Emission Limits
 - a. On and after the date of startup of S2.001 - S2.013, the permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of Wet Scrubber (2300-DC-02), the following pollutants in excess of the following specified limits:
 - i. NAC 445B.305 Part 70 Program - The discharge of PM to the atmosphere will not exceed 3.84 pound per hour combined, nor more than 16.82 ton per year combined, based on a 12-month rolling period.
 - ii. NAC 445B.305 Part 70 Program - The discharge of PM10 to the atmosphere will not exceed 3.84 pound per hour combined, nor more than 16.82 ton per year combined, based on a 12-month rolling period.
 - iii. NAC 445B.22033 Federally Enforceable SIP Requirement - The maximum allowable discharge of PM10 to the atmosphere will not exceed 82.95 pound per hour in accordance with NAC 445B.22033.
 - iv. NAC 445B.22017 Federally Enforceable SIP Requirement - The opacity from the exhaust stack of Wet Scrubber (2300-DC-02) will not equal or exceed 20% in accordance with NAC 445B.22017.NAC 445B.305 Part 70 Program
 - b. New Source Performance Standards - Subpart LL-Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
On and after the sixtieth day after achieving the maximum production rate at which System 03 will be operated, but not later than 180 days after initial startup, the permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of Wet Scrubber (2300-DC-02), the following pollutants in excess of the following specified limits:
 - i. Emissions of particulate matter in excess of 0.05 grams per dry standard cubic meter (40 CFR Part 60.382(a)(1)).
 - ii. At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate S2.001 - S2.013 each including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d)).



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Section VI. Specific Operating Conditions (continued)

C. Emission Units #'s S2.001 – S2.013 (continued)

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

- a. The maximum allowable throughput rate for S2.001 - S2.013 each, will not exceed 1500.0 tons of as fed ore per any one-hour period.
- b. Hours
S2.001 - S2.013 each, may operate a total of 8760 hours per year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program
a. Monitoring, Record keeping and Compliance

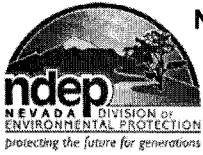
The Permittee, upon issuance of this operating permit will:

- i. Monitor and record the throughput rate of as fed ore for S2.001 - S2.013 each, on a daily basis.
- ii. Monitor and record the hours of operation for S2.001 - S2.013 each, on a daily basis.
- iii. Conduct and record a weekly visible emission survey on the exhaust stack of Wet Scrubber (2300-DC-02); record the time of the survey and indicate whether any visible emissions that are not normal for the process, were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
- iv. The required monitoring established in (i.) through (iii.) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that S2.001 - S2.013 each, are operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily throughput rate of as fed ore, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly throughput rate of as fed ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (f) Records required in VI.4.c. and d. of this section.

b. New Source Performance Standards (NSPS) – Initial Testing [Test Methods and Procedures] (40 CFR Part 60.386)

Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the permittee will:

- i. Conduct and record the following performance tests on the exhaust stack of Wet Scrubber (2300-DC-02) consisting of three valid runs at the maximum throughput rate subject to C.3.a. of this section.
 - (a) Method 5 or 17 shall be used to determine the particulate matter concentration. The sample volume for each run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121 °C (250 °F)) in order to prevent water condensation on the filter.
 - (b) Method 9 and the procedures in § 60.11 [3 hours (30 6 minute averages)] shall be used to determine opacity from stack emissions and process fugitive emissions. The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed.
 - (c) To comply with § 60.385(c), the owner or operator shall use the monitoring devices in § 60.384(a) and (b) to determine the pressure loss of the gas stream through the scrubber and scrubbing liquid flow rate at any time during each particulate matter run, and the average of the three determinations shall be computed.



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Issued to: Newmont Mining Corporation – Gold Quarry Operations Area, hereinafter called the permittee
Section VI. Specific Operating Conditions (continued)

C. Emission Units #'s S2.001 – S2.013 (continued)

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

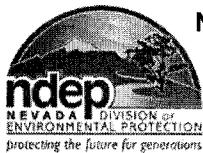
b. New Source Performance Standards (NSPS) – Initial Testing [Test Methods and Procedures] (40 CFR Part 60.386)
(Continued)

- ii. Performance tests required under C.4.b.i. of this section that are conducted below the maximum allowable throughput, as established in C.3.a. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then, the director may order additional performance testing for the purpose of a compliance demonstration.
- iii. 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.
- iv. Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee 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 tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- v. The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).
- vi. Within 60 days after completing the performance tests and opacity observations contained in C.4.b. of this Section, the permittee shall furnish the director a written report of the results of the performance tests and the opacity observations required in C.4.b. of this Section (40 CFR Part 60.385, 60.8(a)). 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.395 (NAC 445B.252.8).

c. Performance/Compliance Testing

Within 60 days from the date of expiration of this permit, but no earlier than 365 days from the date of expiration of this permit, the permittee will:

- i. Conduct and record the following performance tests on the exhaust stack of Wet Scrubber (2300-DC-02) consisting of three valid runs at the maximum throughput rate subject to C.3.a. of this section.
 - (1) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (2) A Method 5 or 17 test in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director). The sample volume for each run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
- ii. The Method 201A and Method 202 tests required in C.4.c.i. of this section may be replaced by a Method 5 or 17 test which includes the back-half catch. All particulate captured in the Method 5 or 17 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in C.2. of this section.
- iii. Performance tests required under C.4.c.i. of this section that are conducted below the maximum allowable throughput, as established in C.3.a. of this section, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then, the director may order additional performance testing for the purpose of a compliance demonstration.



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Section VI. Specific Operating Conditions (continued)

C. Emission Units #'s S2.001 – S2.013 (continued)

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

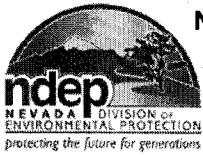
c. Performance/Compliance Testing (continued)

- iv. Conduct and record a Method 9 visible emissions reading on the exhaust stack of Wet Scrubber (2300-DC-02) 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.
- v. Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee 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 tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- vi. The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC 445B.252.4).
- vii. Within 60 days after completing the performance tests and opacity observations contained in C.4.b. of this Section, the permittee shall furnish the director a written report of the results of the performance tests and the opacity observations required in C.4.c. of this Section (40 CFR Part 60.385, 60.8(a)). 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.395 (NAC 445B.252.8).

d. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))

The permittee, upon the issuance date of this permit shall:

- i. During the initial performance test of Wet Scrubber (2300-DC-02), and at least weekly thereafter, the permittee shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate (40 CFR Part 60.385 (b)).
 - ii. After the initial performance test of Wet Scrubber (2300-DC-02), the permittee shall submit semiannual reports to the director of occurrences when the measurement of the scrubber pressure loss (or gain) and liquid flow rate differ by more than +/- 30 percent from the average obtained during the most recent performance test. The reports shall be postmarked within 30 days following the end of the second and fourth quarters (40 CFR Part 60.385(c) and (d)).
 - iii. To comply with C.4.a., the permittee shall use the monitoring devices in C.5.a. and C.5.b. of this section to determine the pressure loss of the gas stream through the scrubber and scrubbing liquid flow rate at any time during each particulate matter run, and the average of the three determinations shall be computed (40 CFR Part 60.386(c)).
 - iv. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
- e. New Source Performance Standards (NSPS) – Notification and Record Keeping (40 CFR Part 60.7(b)) (Continued)
The permittee, upon issuance date of this permit, shall:
- i. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.



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Section VI. Specific Operating Conditions (continued)

C. Emission Units #'s S2.001 – S2.013 (continued)

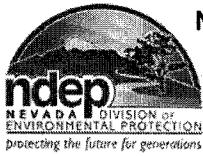
5. Monitoring of Operations (40 CFR Part 60.384)

- a. The permittee shall install, calibrate, maintain, and operate a monitoring device for the continuous measurement of the change in pressure of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within +/- 250 pascals (+/- 1 inch water) gage pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.
- b. The permittee shall install, calibrate, maintain, and operate a monitoring device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within +/- 5 percent of the design scrubbing liquid flow rate and must be calibrated on at least an annual basis in accordance with manufacturer's instructions.

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

No Shielded Requirements

Revised: March 2013



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Section X. Amendments

April 15, 2004 – Minor Revision Application received on February 24, 2004: Added Systems 03a., 03b., & 03c. – Reagent Mix Tanks 1, 2 & 3 for the New Flotation Circuit at Mill 5.

November 7, 2006 – Minor Revision Application (Aircase # 07AP0043) received on July 24, 2006: Increased discharge rate from two lime silos (Systems 63 & 65) and revised PM and PM₁₀ emission rates for Systems 62 & 64 resulting in an increase of PM emissions of 0.24 ton per year and an increase of PM₁₀ emissions of 0.08 ton per year. Removed Systems 22, 23, 24, 27, 28, 29, 30, 31 & 32 as these systems were never constructed.

March 26, 2007 – Minor Revision Application (Aircase # 07AP0216) received on December 14, 2006: Increased annual fuel usage rate for Acid Plant Start-up Heater (System 45) resulting in annual emissions increases of the following pollutants as follows: PM₁₀ = 0.55 tpy, SO₂ = 0.39 tpy, NO_x = 5.59 tpy, CO = 1.40 tpy, VOC = 0.22 tpy.

December 6, 2007 – Minor Revision Application (Aircase # 08AP0040) received on July 30, 2007: Removed two mercury retort furnaces (S2.046.1 and S2.046.2; Added an Underground Metal Removal Plant resulting in annual emissions increases as follows: PM = 6.28 tpy, PM₁₀ = 4.4 tpy.

March 19, 2008 – Amend Systems 85, 86, and 87, Underground Ore Metal Removal Plant, to add location East 567.391 km, North 4,515.220.

March 12, 2009 – Minor Revision Application (Aircase # 09AP0139). Add Systems 4A-11A-12A-19A-41A. Revise VOC emissions limits for System 72-73. Revise hourly emission limits, hourly throughput, and annual operating hours for System 81. Annual emissions increases: PM = 12.39 tpy, PM₁₀ = 4.46 tpy, VOC = 19.22 tpy.

August 24, 2009 – Minor Revision Application (Aircase # 09AP0291). Add System 88 – Phoenix Prep Room Laboratory Crusher System. Annual emissions increases: PM = PM₁₀ = 2.86 tpy.

October 1, 2009 – Administrative Amendment (Aircase # 10AP0082). The address for Newmont Mining Corporation has changed from P.O. Box 669, Carlin, NV 89822 to 1655 Mountain City Highway, Elko, NV 89801.

November 23, 2009 – Open Permit/Revision (Aircase # 10AP0101). Open air permit and correct typographical errors. Change S2.220 to S2.224 (System 4A), change S2.221 to S2.225 (System 11A), change PF1.048 to PF1.051 (System 12A), change PF1.049 to PF1.052 (System 19A).

January 22, 2010 – Change of Location (Aircase #10AP0127). Revise locations for System 83 to 567.652 km E, 4514.806 km N; revise locations for Systems 85, 86 and 87, to 567.700 km E, 4515.362 km N.

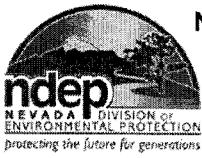
January 26, 2011 – Minor Revision Application (Aircase #10AP0177). Revise System 81 – remove flux mixer (S2.040), add riffle splitter (S2.232). No increase in emissions.

November 1, 2011 – Change of Location (Aircase #12AP0152). Additional location for Systems 11 and 12 (North 4513.237 km, East 569.462 for System 11, and North 4513.239 km, East 569.464 km for System 12). New location for System 04 (North 4515.586 km, East 566.392 km).

April 30, 2012, Aircase 12AP0239: (1) construct a shotcrete plant with associated silo at the Chukar Underground Mine; (2) remove System 04A from permit.

July 24, 2012 Minor Revision Application (Aircase # 12AP0351) – Addition of System 99 Met Lab Bucking Room

May XX, 2013 Minor Revision Application (Aircase #7402) – Replacement of Wet Scrubber in System 3.



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Section X. Amendments (continued)

This permit:

- 1. Is non-transferable. (NAC 445B.287.4) Part 70 Program**
- 2. Will be posted conspicuously at or near the stationary source. (NAC 445B.318)(State Only Requirement)**
- 3. Will expire and be subject to renewal five (5) years after the issuance date of February 25, 2004 NAC 445B.315 and 3443.1) Part 70 Program**
- 4. A completed application for renewal of an operating permit must be submitted to the director on the form provided by him with the appropriate fee at least 180 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: February 25, 2009

Signature

Jeffrey Kinder, P.E.

Issued by:

Supervisor, Permitting Branch
Bureau of Air Pollution Control

Phone:

(775) 687-9475

Date:

May XX, 2013

Rm

Revised: 4/15/2004, 11/07/2006, 3/26/2007, 12/6/2007, 3/19/2008

Rp

3/12/2009, 8/24/2009, 11/23/2009

Ja

10/01/2009

gm

1/22/2010, 1/26/2011, 11/1/2011, 4/30/2012

sas

5/2012, 03/2013