

# STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Jim Gibbons, Governor

Allen Biaggi, Director

Leo M. Drozdoff, P.E., Administrator

March 11, 2009

Joe Dick  
Mine General Manager  
Barrick Cortez, Inc.  
HC 66 – Box 1250  
Crescent Valley, Nevada 89821-1250

**Re: Final Air Quality Operating Permit Minor Modification #AP1041-2141 for  
Barrick Cortez, Inc. FINA0001**

Dear Mr. Dick:

The application submitted by the Barrick Cortez, Inc. for a Minor Modification of Class I (Title V) Air Quality Operating Permit No. AP1041-2141 has been reviewed by the Nevada Division of Environmental Protection, Bureau of Air Pollution Control (NBAPC) under legal authority from Nevada Revised Statutes 445B.100 through 445B.640 and pursuant to regulations in Nevada Administrative Code 445B.001 through 445B.3689. Based on NBAPC's review and recommendation, I am hereby issuing modified Operating Permit No. AP1041-2141, with appropriate restrictions. Modified Operating Permit No. AP1041-2141 must be posted conspicuously at or near the source.

The draft copy of the modified Operating Permit No. AP1041-2141 was submitted to EPA Region IX on January 15, 2009 for the required 45 day review process (NAC 445B.3425). The review period ended March 1, 2009. EPA Region IX commented on February 23, 2009 as follows:

*“BAPC has proposed granting a permit shield for SIP rule NAC 445B.22033, citing NAC 445B.3405 as the authority the source is relying on. However both Part 70 [70.7 (e)(2)(vi)] and NAC 445B.3405 prohibit granting shields in minor title V permit modifications. The purpose of this is to prohibit granting permit shields for permit revisions that do not undergo public review. BAPC must delete the shield provisions from this title V minor permit revision or process the application as a significant revision.”*

NBAPC responded on February 24, 2009 as follows:

*“NDEP will remove the shield provisions from the permit in order to comply with the Part 70 minor revision requirements.”*

Enclosed is your copy of the modified pages, with the shield provisions removed, to Operating Permit No. AP1041-2141. Operating Permit No. AP1041-2141 was modified to:

- 1) Revise System 8 (Refinery Induction Furnaces, S2.002-S2.003) by adding a carbon filter after the baghouse; increasing the hourly and annual PM/PM<sub>10</sub> emission limits; adding maximum allowable emission limits for PM<sub>10</sub>; increasing the hourly and annual throughput limits; adding individual hourly throughput limits; increasing the daily and annual operating hours; and adding a monitoring requirement for combined hourly throughputs.
- 2) Revise System 10 (Carbon Kilns, S2.007-S2.008) by adding a carbon filter after the wet scrubber; increasing the hourly and annual PM/PM<sub>10</sub> and CO emission limits; adding maximum allowable emission limits for PM<sub>10</sub>; increasing the hourly throughput limits; removing the annual throughput limits; and increasing the daily and annual operating hours.



- 3) Revise System 12 (Lime Silo, S2.012 and PF1.028) by changing the description to emission unit PF1.028 in System 12 and adding maximum allowable emission limits for PM<sub>10</sub>.
- 4) Revise System 13 (Assay Lab Sample Prep, S2.013a-S2.013j) by reconfiguring the emission units; increasing the annual PM/PM<sub>10</sub> emission limits; adding maximum allowable emission limits for PM<sub>10</sub>; increasing the hourly throughput limits; adding a combined hourly throughput limit; increasing the daily and annual operating hours; and adding a monitoring requirement for combined hourly throughputs.
- 5) Revise System 14 (Assay Lab Furnaces, S2.018a-S2.018g) by adding an assay furnace; increasing the annual PM/PM<sub>10</sub> emission limits; adding maximum allowable emission limits for PM<sub>10</sub>; increasing the hourly throughput limits; adding individual hourly throughput limits; increasing the daily and annual operating hours; and adding a monitoring requirement for individual hourly throughputs.
- 6) Consolidate System 18A into System 18 and revise the operating parameters.
- 7) Consolidate System 19A into System 19 and revise the operating parameters.
- 8) Add new concrete/shotcrete batch plants at Cortez Hills (Systems 41-45).
- 9) Add a new metallic ore conveyance system at Cortez Hills (System 46).
- 10) Increase PM emission limits by 7.23 tons per year, PM<sub>10</sub> emission limits by 4.38 tons per year, PM<sub>2.5</sub> emission limits by 4.38 tons per year, and CO emission limits by 1.50 tons per year.

In accordance with Nevada Revised Statute 445B.340, you may appeal the department's action of issuance of this modified operating permit within 10 days after you receive the permit. Appeals may be filed with the State Environmental Commission, 901 South Stewart Street, Suite 4001, Carson City, Nevada, 89701-5249, telephone 775-687-9308.

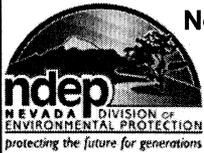
Please review your modified permit carefully to understand all conditions, restrictions, monitoring and recordkeeping requirements. If you have any questions, please call Randy Phillips, of my staff, at (775)687-9362 or me at (775)687-9391.

Sincerely,



Matthew A. DeBurl  
Supervisor, Permitting Branch  
Bureau of Air Pollution Control

MAD/rp  
Certified Mail No. 7008-1140-0005-0099-2329  
cc (w/enclosures): Gerardo Rios, Chief (A-5-1)  
New Source Section  
Air & Toxics Division  
U.S. EPA, Region IX  
75 Hawthorne St.  
San Francisco, CA 94105



**BUREAU OF AIR POLLUTION CONTROL**

**Facility ID No. A0001**

**Permit No. AP1041-2141**

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

**Issued to: Barrick Cortez, Inc. as Permittee**

**Section X. Amendments**

June 2, 2008

Administrative Amendment requested by *the Permittee*:

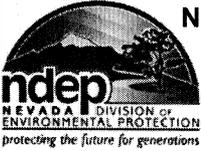
1. Permittee name changed to Barrick Cortez, Inc.
2. Mailing address changed to HC66 Box 1250, Crescent Valley, NV 89821-1250

November 5, 2008

1. Change of Location for System 18. Application Log # 09AP0132

March 11, 2009

1. System 8 (Refinery Induction Furnaces, S2.002 - S2.003) changes involve adding a carbon filter after the baghouse for mercury control; increasing hourly/annual PM/PM<sub>10</sub> emission limits from 0.24 lbs/hr and 0.18 tons/yr to 0.29 lbs/hr and 0.44 tons/yr; adding maximum allowable emission limits for PM<sub>10</sub>; increasing hourly/annual throughput limits from 0.05 tons/hr and 75 tons/yr to 0.125 tons/hr and 150 tons/yr; adding individual hourly throughput limits; increasing daily/annual operating hours from 20 hrs/day and 1500 hrs/yr to 24 hrs/day and 3000 hrs/yr; and adding a monitoring requirement for combined hourly throughputs.
2. System 10 (Carbon Kilns, S2.007 - S2.008) changes involve adding a carbon filter after the wet scrubber for mercury control; increasing hourly/annual PM/PM<sub>10</sub> from 0.01 lbs/hr and 0.029 tons/yr to 0.013 lbs/hr and 0.056 tons/yr, and CO emission limits from 0.55 lbs/hr and 1.61 tons/yr to 0.71 lbs/hr and 3.10 tons/yr; adding maximum allowable emission limits for PM<sub>10</sub>; increasing hourly throughput limits from 0.63 tons/hr to 0.81 tons/yr; removing annual throughput limits; and increasing daily/annual operating hours from 16 hrs/day and 5840 hrs/yr to 24 hrs/day and 8760 hrs/yr.
3. System 12 (Lime Silo, S2.012 and PF1.028) changes involve a change to the description for PF1.028 from "pebble lime silo unloading to SAG mill" to "pebble lime silo unloading to enclosed screw conveyor" and adding maximum allowable emission limits for PM<sub>10</sub>.
4. System 13 (Assay Lab Sample Prep, S2.013a - S2.013j) changes involve a reconfiguration of equipment; increasing annual PM/PM<sub>10</sub> emission limits from 8.12 tons/yr to 8.90 tons/yr; adding maximum allowable emission limits for PM<sub>10</sub>; increasing combined hourly throughput limits from 0.08 tons/hr to 0.21 tons/hr; increasing daily/annual operating hours from 22 hrs/day and 8030 hrs/yr to 24hrs/day and 8760 hrs/yr; adding a combined hourly throughput limit; and adding a monitoring requirement for combined hourly throughputs.
5. System 14 (Assay Lab Furnaces, S2.018a - S2.018g) changes involve adding a new furnace (S2.018g); increasing annual PM/PM<sub>10</sub> emission limits from 7.66 tons/yr to 8.35 tons/yr; adding maximum allowable emission limits for PM<sub>10</sub>; increasing hourly combined throughput limits from 0.009 tons/hr to 0.022 tons/hr; adding individual hourly throughput limits; increasing daily/annual operating hours from 22 hrs/day and 8030 hrs/yr to 24 hrs/day and 8760 hrs/yr; and adding a monitoring requirement for individual hourly throughputs.
6. System 18/18A (A28 Heap Leach Lime Silo) changes involve revising UTM coordinates; combining System 18A into System 18; increasing emission limits for S2.019 from 0.012 lbs/hr and 0.002 tons/yr to 0.034 lbs/hr and 0.013 tons/yr for PM<sub>10</sub>, 0.035 lbs/hr and 0.006 tons/yr to 0.099 lbs/hr and 0.038 tons/yr for PM; decreasing emission limits for PF1.051 from 0.48 lbs/hr and 0.092 tons/yr to 0.036 lbs/hr and 0.046 tons/yr for PM<sub>10</sub>, 1.70 lbs/hr and 0.33 tons/yr to 0.077 lbs/hr and 0.098 tons/yr for PM; increasing emission limits for PF1.052 - PF1.053 from 1.60 lbs/hr and 0.092 tons/yr to 0.12 lbs/hr and 0.046 tons/yr for PM<sub>10</sub>, 5.68 lbs/hr and 0.33 tons/yr to 0.26 lbs/hr and 0.098 tons/yr for PM; adding maximum allowable emission limits for PM<sub>10</sub>; increasing throughput limits for S2.019 from 30 tons/hr and 11,550 tons/yr to 100 tons/hr and 77,000 tons/yr; increasing annual throughputs for PF1.049 - PF1.054 from 11,550 tons/yr to 77,000 tons/yr; and increasing annual operating hours for all emission units in System 18 from 578 hrs/yr to 8,760 hrs/yr.



**BUREAU OF AIR POLLUTION CONTROL**

**Facility ID No. A0001**

**Permit No. AP1041-2141**

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

Issued to: Barrick Cortez, Inc. as Permittee

**Section X. Amendments (continued)**

March 11, 2009 (continued)

- 7. System 19/19A (A30 Heap Leach Lime Silo) changes involve revising UTM coordinates; combining System 19A into System 19; increasing emission limits for S2.021 from 0.012 lbs/hr and 0.002 tons/yr to 0.034 lbs/hr and 0.013 tons/yr for PM<sub>10</sub>, 0.035 lbs/hr and 0.006 tons/yr to 0.099 lbs/hr and 0.038 tons/yr for PM; decreasing emission limits for PF1.057 from 0.48 lbs/hr and 0.092 tons/yr to 0.036 lbs/hr and 0.046 tons/yr for PM<sub>10</sub>, 1.70 lbs/hr and 0.33 tons/yr to 0.077 lbs/hr and 0.098 tons/yr for PM; increasing emission limits for PF1.058 – PF1.059 from 1.60 lbs/hr and 0.092 tons/yr to 0.12 lbs/hr and 0.046 tons/yr for PM<sub>10</sub>, 5.68 lbs/hr and 0.33 tons/yr to 0.26 lbs/hr and 0.098 tons/yr for PM; adding maximum allowable emission limits for PM<sub>10</sub>; increasing throughput limits for S2.021 from 30 tons/hr and 11,550 tons/yr to 100 tons/hr and 77,000 tons/yr; increasing annual throughputs for PF1.055 – PF1.060 from 11,550 tons/yr to 77,000 tons/yr; and increasing annual operating hours for all emission units in System 19 from 578 hrs/yr to 8,760 hrs/yr.
- 8. Addition of new concrete/shotcrete batch plants (Systems 41-45).
- 9. Addition of new metallic ore conveyance system (System 46).
- 10. Facility changes result in an increase of 7.23 tons/year PM, 4.38 tons/year PM<sub>10</sub>, and 1.50 tons/year CO.

**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 January 28, 2008 . (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.323.2) 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:** January 28, 2013

**Signature** 

**Issued by:** Matthew A. DeBurle, P.E.  
Supervisor, Class I Permitting Branch  
Bureau of Air Pollution Control

**Phone:** (775) 687-9391 **Date:** March 11, 2009