

Appendix 4-G

Air Quality Approval Order



State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY

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DAQE-145-02

February 22, 2002

Charles Reynolds
Co-Op Mining Company
P. O. Box 1245
Huntington, Utah 84528

Dear Mr. Reynolds:

Re: Approval Order: Modification of Approval Order DAQE-862-99, to Increase Production
Emery County - CDS-B, NSPS, Title V, Project Code: N0240-004

The attached document is the Approval Order for the above-referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. Enqiang He. He may be reached at (801) 536-4010.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Sprott", is written over the typed name.

Richard W. Sprott, Executive Secretary
Utah Air Quality Board

RWS:EH:re

cc: Emery County
Mike Owens, EPA Region VIII

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**APPROVAL ORDER: MODIFICATION OF APPROVAL
ORDER DAQE-862-99, TO INCREASE PRODUCTION**

Prepared By: Enqiang He, Engineer

Email: eh@deq.state.ut.us

(801) 536-4010

APPROVAL NUMBER

DAQE-145-02

Date: February 22, 2002

Co-Op Mining Company

Source Contact

Charles Reynolds

(435) 687-2450

Richard W. Sprott

Executive Secretary

Utah Air Quality Board

Abstract

Co-Op Mining Company has proposed to modify its existing Approval Order (AO) DAQE-862-99, dated October 29, 1999. The source is located in Emery County which is an attainment area for all criteria pollutants. The AO is modified as follows: (1) to increase throughput from 1,100,000 tons/year to 1,950,000 tons/year of coal, and (2) to use an oil burner/space heater in the shop. New Source Performance Standards (NSPS) Subpart Y (Standards of Performance for Coal Preparation Plants) regulations apply to this source. National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations do not apply to this source. Title V regulations apply to this source. The source uses new emission factors for the unpaved haul road. The emissions, in tons per year, will change as follows: PM_{10} (+ 4.88) 13.09, NO_x (+ 0.01) 11.28, SO_2 (+ 0.05) 1.59, CO (+ 0.00) 4.73, and VOC (+ 0.22) 2.88.

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A 30-day public comment period was held in accordance with UAC R307-401-4 and no comments were received. This air quality Approval Order (AO) authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

General Conditions:

1. This Approval Order (AO) applies to the following company:

Office Location

Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528
Phone Number: (435) 687-2450
Fax Number: (435) 687-2084

PLANT LOCATION:

The equipment listed below in this AO shall be operated at the following location:
Eleven miles west of Huntington, Utah on state Highway 31

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27
4,361.9 kilometers Northing, 491.7 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307), and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to

Oversize Crusher:

Type: Secondary Crushing, Square Crusher

Manufacturer: Eagle*

Model: 10210*

Capacity: 50 tons/hr

Screens:

Secondary Picking Screen:

Allis Chalmers, Ripple Flow *

6 x 16 SD

Capacity: 300 to 450 tons/hr

Wildhorse Screen:

Hewitt Robbins *

8x20DD

Capacity: 350 to 900 tons/hr

Upper Screen:

Allis Chalmers, Ripple Flow *

6x16DD

Capacity: 300 to 900 tons/hr

Lower Screen

Allis Chalmers, Low Head *

8x20 DD

Capacity: 350 to 900 tons/hr

Storage Tanks:

One vertical unleaded above ground gasoline storage tank, 11,000 gallon capacity**

One diesel, above ground storage tank, 11,000 gallon capacity**

One diesel, above ground storage tank, 16,000 gallon capacity**

Two above ground Stoker Oil storage tank, 14,000 gallon capacity**

One above ground diesel storage tank**, 1,000 gallon capacity

One above ground diesel storage tank**, 8,000 gallon capacity(Installed in 1999)

One above ground Anti Freeze storage tank, 2,000 gallon capacity

Coal Fired Space Heaters:

Shower House
Stokermatic Warrior* 150/225p, 225,000 BTU/hr
Scale House
Stokermatic Warrior* 150/225p, 225,000 BTU/hr *
Stokermatic Model 2*, 100,000 to 150,000 BTU/hr *
Shop Building
Coal stoker space heater, 250,000 BTU/hr

Miscellaneous Equipment:

Conveyors
Diesel fired Front end loaders
Oil burner/space heater***
Other mobile equipment necessary for facility management

* Equivalency shall be determined by the Executive Secretary

** Not subject to 40 CFR Parts 60 Subpart Kb

*** Newly added

Limitations and Tests Procedures

9. Visible emissions from any point or fugitive emission source associated with the installation of the source or with the control facilities shall not exceed 20% opacity. Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15 second intervals over a six minute period; however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made ½ vehicle length or greater behind the vehicle and at approximately ½ the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.

10. The production limit of 1,950,000 tons of coal per rolling 12-month period shall not be exceeded.

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by an operations log. The records of production shall be kept on a daily basis.

Roads and Fugitive Dust

11. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed to control fugitive dust. The application of water or chemical treatment shall be used. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition. The opacity shall not exceed 20% at all times the areas are in use unless it is below freezing. Records of water treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:
 - A. Date
 - B. Number of treatments made and water quantity
 - C. Rainfall received, if any, and approximate amount
 - D. Time of day treatments were made

12. Water sprays or chemical dust suppression sprays shall be installed at all drop points at which the material handled may have a moisture content of less than 4% or as needed to comply with the opacity limitations in this AO. Examples of points that require water sprays include the following:
 - A. Mine Operations
 - B. Storage Piles
 - C. Crushing and Screening areas
 - D. Conveying Drop Points
 - E. Load-out

The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary.

13. The storage piles shall be watered to minimize generation of fugitive dusts, as dry conditions warrant or as determined necessary by the Executive Secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation.

Fuels

14. The owner/operator shall use only diesel fuel with less than 0.3% sulfur or gasoline in stationary equipment or mobile equipment operated onsite. Sulfur content shall be decided by ASTM Method D2880-71 or D-4294-89, or approved equivalent. The sulfur content shall be tested if directed by the Executive Secretary. The percent by weight of the sulfur contained in the fuel can be obtained from the fuel oil certifications. Certification of fuels shall be either by Co-Op Mining Company's own testing or test reports from the fuel marketer. Records of fuel supplier's test report on sulfur content shall be available on-site for each load delivered. Coal consumption in the Shower house, Scale house and shop building space heaters shall not exceed 65 tons per rolling 12-month period. The sulfur content of the coal shall not exceed 0.60%. Sulfur content in coal shall be decided by ASTM Methods D3177-75 or D4239-85, or approved equivalent.

Federal Limitations and Requirements

15. In addition to the requirements of this AO, all provisions of 40 CFR 60, NSPS¹ Subparts A and Y, (Standards of Performance for Coal Preparation Plants), apply to this crushing facility. The storage tanks are not subject to 40 CFR 60 subpart Kb.

Records & Miscellaneous

16. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
17. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
18. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site: http://www.eq.state.ut.us/eqair/aq_home.htm

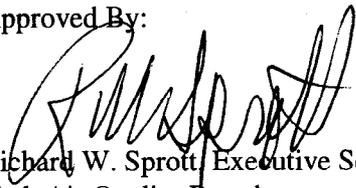
The annual emission estimations below include space heaters, conveyors and loadout, crushing and screening, haul road, storage piles, and diesel storage tank emissions. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, nonattainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The Potential To Emit (PTE) emissions for this source (the Bear Canyon Mine) are currently calculated at the following values:

¹ NSPS = New Source Performance Standards.

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM ₁₀	13.09
B.	SO ₂	1.59
C.	NO _x	11.28
D.	CO	4.73
E.	VOC	2.88

Approved By:



Richard W. Sprott, Executive Secretary
Utah Air Quality Board