



State of Utah

GARY R. HERBERT
Governor

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Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-AN0120580008-10

June 9, 2010

Lawnie Mayhew
Harper Contracting, Inc.
8201 West 5400 South
PO Box 18400
Kearns, UT 84118

Dear Mr. Mayhew:

Re: Approval Order: Administrative Amendment to DAQE-AN0120580007-08 to Update Format
Project Number: N012058-0008

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. The project engineer for this action is Mr. Alan Humpherys, who may be reached at (801) 536-4142.

Sincerely,

M. Cheryl Heying, Executive Secretary
Utah Air Quality Board

MCH:AH:sa

cc: Salt Lake Valley Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**APPROVAL ORDER: Administrative Amendment to
DAQE-AN0120580007-08 to Update Format**

Prepared By: Mr. Alan Humpherys, Engineer

Phone: (801) 536-4142

Email: ahumpherys@utah.gov

APPROVAL ORDER NUMBER

DAQE-AN0120580008-10

Date: June 9, 2010

Harper Contracting, Inc.

Pit #16, Parley's Canyon Aggregate Facility

Source Contact:

Mr. Lawnie Mayhew

Phone: (801) 250-0132

M. Cheryl Heying

Executive Secretary

Utah Air Quality Board

Abstract

DAQ has implemented a new electronic permitting database system. In order to initiate Division-wide use of this system, the most recent AO for the Harper Contracting, Inc.'s Pit #16 - Parley's Canyon, DAQE-AN0120580007-08 dated January 23, 2008, will be updated into this database. There were no changes to the content of the permit, just adjustments to the organization of the permit. The previous permit was issued as a result of Harper Contracting, Inc. requesting to combine two AOs for the same site.

Salt Lake County is a nonattainment area of the NAAQS for PM₁₀ and SO₂, and is a maintenance area for CO and ozone. NSPS 40 CFR 60 Subpart A and Subpart OOO apply to this source. NESHAP and MACT regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source, and this source is considered a Title V Area Source.

The potential emissions, in tons per year, will remain as follows: PM₁₀ = 24.07, NO_x = 46.69, SO₂ = 3.09, CO = 10.06, VOC = 1.06.

This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order. This AO is issued to, and applies to the following:

Name of Permittee:

Harper Contracting, Inc.
8201 West 5400 South
PO Box 18400
Kearns, UT 84118

Permitted Location:

Pit #16, Parley's Canyon Aggregate Facility
1.25 miles east of mouth of Parley's Canyon
Salt Lake City, UT

UTM coordinates: 434,900 m Easting, 4,508,800 m Northing, UTM Zone 12
SIC code: 1442 (Construction Sand & Gravel)

Section I: GENERAL PROVISIONS

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of five (5) years. [R307-401-8]

- I.5 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 AO, 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. [R307-401-4]
- I.6 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]
- I.7 The owner/operator shall comply with UAC R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 **Pit #16**
- II.A.2 **Three (3) Jaw Crushers**
Rating: 250 tph each
- II.A.3 **Four (4) Cone Crushers/Impactors**
Rating: 250 tph each
- II.A.4 **Five (5) Triple Deck Screens**
Rating: 250 tph each
- II.A.5 **One (1) Screen Plant**
Rating: 250 tph
- II.A.6 **Generator Sets and/or Screen Plant Engines**
Any combination of diesel-fired generator sets and/or screen plant engines with total power capacity not to exceed 600 kW.
- II.A.7 **Associated Stackers, Conveyors, etc.**
The total number of transfer points shall not exceed 50.
- II.A.8 **Associated Loaders, Dozers, Scrapers, etc.**

II.B Requirements and Limitations

II.B.1 Pit #16 - Parley's Canyon Aggregate Facility shall be subject to the following

II.B.1.a The following production limits shall not be exceeded:

- A. 2,500,000 tons of processed aggregate material per rolling 12-month period.
- B. 3,744 hours of operation for all diesel-fired generators combined per rolling 12-month period. [R307-401-8]

II.B.1.a.1 To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the 25th 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 truck scale records or vendor receipts. The records of production shall be kept on a daily basis. Hours of operation shall be determined by monitoring and maintaining of an operations log. [R307-401-8]

II.B.1.b Visible emissions from the following emission points shall not exceed the following values:

- A. All crushers - 15% opacity
- B. All screens - 10% opacity
- C. All conveyor transfer points - 10% opacity
- D. All conveyor drop points - 20% opacity
- E. All diesel-fired engines - 20% opacity
- F. All other points - 20% opacity. [R307-401-8]

II.B.1.b.1 Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For equipment subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9. [R307-401-8]

II.B.2 All Haul Roads and Fugitive Dust Sources on site shall be subject to the following

II.B.2.a Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. [R307-309-5]

II.B.2.a.1 Visible emission 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 at no less than one-half the vehicle length behind the vehicle and at no less than approximately one-half the height of the vehicle. The accumulated six readings shall be averaged for the compliance value. [R307-309-5]

II.B.2.b The owner/operator shall comply with a FDCP acceptable to the Executive Secretary for control of all dust sources associated with Pit #16. The owner/operator shall comply with the most current FDCP approved by the Executive Secretary. [R307-309-6]

II.B.2.c All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. The application of water or chemical treatment shall be used except when the ambient temperature is below freezing (32°F). Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition unless it is below freezing. The opacity shall not exceed 20% during all times the areas are in use except when wind speeds exceed 25 mph, as measured by a hand-held anemometer or equivalent device. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. [R307-401-8]

II.B.2.c.1 Records of water and/or chemical treatment shall be kept for all periods when the facility is in operation. The records shall include the following items:

- A. Date of application
- B. Number of treatments made
- C. Time of day treatments were made
- D. Records of temperature if the temperature is below freezing
- E. Records of wind speeds when wind speeds exceed 25 mph. This record is not required if the owner/operator does not claim the wind speed exemption from the opacity limit on fugitive dust. [R307-401-8]

II.B.2.d The haul roads shall not exceed 0.4 miles in round trip length and the vehicle speed along the haul road shall not exceed 15 miles per hour. The vehicle speed on the haul road shall be posted, at a minimum, onsite at the beginning of the haul road so that it is clearly visible from the haul road. [R307-401-8]

II.B.2.e Control of disturbed or stripped areas is required at all times for the duration of the project/operation. Records of treatment shall be kept for all periods when the plant is in operation. [R307-401-8]

II.B.2.f Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

- A. All crushers
- B. All screens

C. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant and the ambient temperature is above freezing, or as determined necessary by the Executive Secretary to meet the opacity limitations listed in this AO. [R307-401-8]

II.B.2.g The storage piles shall be watered to minimize generation of fugitive dust as dry conditions warrant and the ambient temperature is above freezing, or as determined necessary by the Executive Secretary to meet the opacity limitations listed in this AO. [R307-401-8]

II.B.2.h The silt content of the haul road shall not exceed 4.8% by weight. [R307-401-8]

II.B.2.h.1 The silt content shall be determined if directed by the Executive Secretary using the appropriate ASTM method. The silt content is defined as all material passing a #200 U.S. Standard Sieve. [R307-401-8]

II.B.3 **All fuels consumed on site shall be subject to the following**

II.B.3.a The owner/operator shall use #2 fuel oil as fuel. [R307-401-8]

II.B.3.b The sulfur content of any fuel oil shall not exceed 0.50 percent by weight. [R307-401-8]

II.B.3.b.1 The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. The sulfur content shall be tested if directed by the Executive Secretary. [R307-203-1]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. 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 UAC 307.

NSPS (Part 60), OOO: Nonmetallic Mineral Processing Plants
NSPS (Part 60), A: General Provisions

PERMIT HISTORY

This AO is based on the following documents:

Supersedes

DAQE-AN0120580007-08 dated January 23, 2008

ADMINISTRATIVE CODING

The following information is for UDAQ internal classification use only:

Salt Lake County

CDS B

NSPS (Part 60), Nonattainment or Maintenance Area, Title V (Part 70) Area source

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
FDCP	Fugitive Dust Control Plan
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/HR	Pounds per hour
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds