



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
Rusty Ruby
Acting Director

DAQE-IN0143550001-11

May 5, 2011

Tom Walbom
Granite Construction Company
1000 North Warm Springs Rd.
Salt Lake City, UT 84116

Dear Mr. Walbom:

Re: Intent to Approve: A New Aggregate Processing Facility
Project Number: N014355-0001

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve 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 Enqiang He, who may be reached at (801) 536-4010.

Sincerely,

Timothy R. Andrus, Manager
New Source Review Section

TRA:EH:sa

cc: Bear River Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

INTENT TO APPROVE: A New Aggregate Processing Facility

Prepared by: Enqiang He, Engineer

Phone: (801) 536-4010

Email: ehe@utah.gov

INTENT TO APPROVE NUMBER

DAQE-IN0143550001-11

Date: May 5, 2011

**Granite Construction Company
Promontory Aggregate Facility**

Source Contact:

Mr. Tom Walbom, Environmental Manager

Phone: (801) 526-6016

**Timothy R. Andrus, Manager
New Source Review Section
Utah Division of Air Quality**

ABSTRACT

Granite Construction Company has requested an approval to operate an aggregate processing plant (the Promontory Facility) located near Corrine in Box Elder County. The equipment includes an aggregate crushing and screening plant, conveyors, a power generator and miscellaneous mobile equipment. Production is limited to 750,000 tons of processed aggregate per year. This source is located in a nonattainment area of the NAAQS for PM_{2.5}. NSPS and MACT regulations apply to the source. Title V of the 1990 Clean Air Act applies to this source.

The emissions, in tons per year, will be as follows: PM₁₀ 9.84, PM_{2.5} 2.25, NO_x 21.84, SO₂ 1.08, CO 7.34, VOC 3.70 and HAPs 0.01.

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in The Herald Journal on May 10, 2011. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing within 15 days of publication, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Granite Construction Company
1000 North Warm Springs Rd.
Salt Lake City, UT 84116

Permitted Location:

Promontory Aggregate Facility
Approx. 4800 North 10000 West
8 miles west of Corinne
1 mile north of Hwy 83
Box Elder County, UT

UTM coordinates: 394,953 m Easting, 4,605,839 m Northing, UTM Zone 12
SIC code: 1429 (Stone, Crushed & Broken, NEC)

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 two (2) 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 **Promontory Facility**
An aggregate processing plant
- II.A.2 **Jaw Crusher**
One (1) jaw crusher with a feeder rated at 325 tons per hour (tph)
- II.A.3 **Cone Crusher (Cedarapids)**
One (1) Cedarapids cone crusher rated at 300 tph
- II.A.4 **Cone Crusher (Canica)**
One (1) Canica cone crusher rated at 300 tph
- II.A.5 **Screens**
Two (2) screens sized 6x20 and 7x20
- II.A.6 **Conveyors**
Miscellaneous conveyors
- II.A.7 **Generator**
One (1) diesel-fired, Tier 2 compliant generator rated at 1200 kW max.

Brand names are for identification purposes only.

II.B Requirements and Limitations

II.B.1 Site-Wide Requirements and Limitations

II.B.1.a Granite Construction Company shall notify the Executive Secretary in writing when the equipment listed in Condition II.A has been installed and is operational. To ensure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section. [R307-401-18]

II.B.1.a.1 If the construction and/or installation have not been completed within 18 months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO. [R307-401-18]

II.B.1.b The following production and consumption limits shall not be exceeded:

A. 750,000 tons of aggregate processed per rolling 12-month period

B. 3,000 hours of operation per rolling 12-month period for the diesel-fired generator

[R307-401-8]

II.B.1.b.1 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 the belt scale records near the initial feeder, or any other methods approved by the Executive Secretary. Production records shall be maintained using an operations log. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. The records of production and hours of operation shall be kept on a daily basis. [R307-401-8]

II.B.1.c 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 other points - 20% opacity

[R307-401-8]

- II.B.1.c.1 Opacity observations of visible 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.

Initial visible emission observations shall be conducted according to 40 CFR 60.11 and 40 CFR 60.675. A certified observer must be used for these observations. Emission points which are subject to the initial observations are those as defined in 40 CFR 60.670. [R307-401-8]

II.B.2 **Conditions on Fugitive Dust Emissions**

- II.B.2.a The following unpaved haul road lengths shall not exceed

- A. 0.34 miles in length for unpaved haul road
- B. 0.46 miles in length for loader, bobcat and water truck operating areas

[R307-401-8]

- II.B.2.a.1 The owner/operator shall cover all unpaved haul roads and wheeled-vehicle operational areas with road base material and shall use water and/or chemical suppressant applications to maintain opacity limits listed in this AO. If the temperature is below freezing, the owner/operator may stop applying water to the unpaved haul roads and wheeled-vehicle operational areas.

Records of water application shall be kept for all periods when the plant is in operation. The records shall include the following items:

- A. Date and time treatments were made
- B. Number of treatments made and quantity of water applied
- C. Rainfall amount received, if any
- D. Records of temperature, if the temperature was below freezing

[R307-401-8]

- II.B.2.a.2 Visible fugitive dust emissions from unpaved haul-road traffic and mobile equipment in unpaved operational areas shall not exceed 20% opacity at any point. [R307-401-8]

- II.B.2.a.3 Visible emission determinations 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. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-401-8]

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

- A. All crushers
- B. All screens
- C. All conveyor transfer points

The sprays shall operate to meet the opacity limits or as determined by the Executive Secretary. [R307-401-8]

II.B.2.c The storage piles shall be watered to maintain opacity limit listed in this AO. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. Records of water and/or chemical treatment shall be made available to the Executive Secretary or Executive Secretary's representative upon request. [R307-401-8]

II.B.3 **Conditions on the Diesel-Fired Generator**

II.B.3.a The owner/operator shall use #1 and/or #2 fuel oil or any combination of both as a fuel in the diesel-fired generator. [R307-401-8]

II.B.3.a.1 The sulfur content of any fuel oil or diesel burned shall not exceed 15 ppm by weight. [R307-401-8]

II.B.3.a.2 The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of the fuel oil shall be either by the source's own testing or test reports from the fuel marketer. The sulfur content certification or the test reports shall be available on-site for each load delivered. [R307-401-8]

II.B.3.b Visible emissions from the diesel-fired generator shall not exceed 20% opacity. [R307-401-8]

II.B.3.b.1 Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401-8]

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 R307.

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

NSPS (Part 60), A: General Provisions

NSPS (Part 60), IIII: Stationary Comp/Ignit R.I.C.E.

MACT (Part 63), A: General Provisions

MACT (Part 63), ZZZZ: Recipro. Int. Comb Engine (RICE)

PERMIT HISTORY

The final AO will be based on the following documents:

Incorporates	additional information dated April 20, 2011
Incorporates	additional information dated April 18, 2011
Incorporates	additional information dated April 4, 2011
Incorporates	Memo (DAQE-MN0143550001-11) dated March 17, 2011
Is Derived From	the NOI dated February 14, 2011

ADMINISTRATIVE CODING

The following information is for UDAQ internal classification use only:

Box Elder County

CDS B

MACT (Part 63), 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
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent - 40 CFR Part 98, Subpart A, Table A-1
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
GHG	Greenhouse Gas(es) - 40 CFR 52.21 (b)(49)(i)
GWP	Global Warming Potential - 40 CFR Part 86.1818-12(a)
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