



State of Utah

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Governor

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Lieutenant Governor

Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN143160002-25

February 12, 2025

Olivia Cramm
Ames Construction, Inc.
3737 West 2100 South
West Valley, UT 84120
OliviaCramm@amesco.com

Dear Ms. Cramm:

Re: Approval Order: Administrative Amendment to Approval Order DAQE-AN0143160001-11 for a
10-Year Review and Permit Updates
Project Number: N143160002

The attached Approval Order (AO) is issued pursuant to the Division of Air Quality conducting a 10-year administrative review of this source and its respective AO. Ames Construction, Inc. must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Christine Bodell**, who can be contacted at (385) 290-2690 or cbodell@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter.

Sincerely,

Bryce C. Bird
Director

BCB:CB:jg

cc: Utah County Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN143160002-25
Administrative Amendment to Approval Order
DAQE-AN0143160001-11 for a 10-Year Review
and Permit Updates

Prepared By
Christine Bodell, Engineer
(385) 290-2690
cbodell@utah.gov

Issued to
Ames Construction, Inc. – Lake Point Limestone Quarry

Issued On
February 12, 2025

Issued By

A handwritten signature in dark ink, appearing to read 'Bryce C. Bird', written in a cursive style.

Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Ames Construction, Inc.

Source Name

Ames Construction, Inc. – Lake Point Limestone Quarry

Mailing Address

3737 West 2100 South
West Valley, UT 84120

Physical Address

South End of Dyno Nobel Road
Saratoga Springs, UT 84054

Source Contact

Name: Olivia Cramm
Phone: (801) 977-8012
Email: OliviaCramm@amesco.com

UTM Coordinates

425,500 m Easting
4,457,300 m Northing
Datum NAD83
UTM Zone 12

SIC code 1499 (Miscellaneous Nonmetallic Minerals, Except Fuels)

SOURCE INFORMATION

General Description

Ames Construction, Inc. owns and operates the Lake Point Limestone Quarry in Utah County. Rock is blasted from the hill face and loaded into the feeder with a front loader and conveyed to the various screens and crushers. Material is then piled according to size and transported off-site.

NSR Classification

10-Year Review

Source Classification

Located in Southern Wasatch Front O3 NAA, Provo UT PM_{2.5} NAA
Utah County
Airs Source Size: B

Applicable Federal Standards

NSPS (Part 60), A: General Provisions
NSPS (Part 60), OOO: Standards of Performance for Nonmetallic Mineral Processing Plants
NSPS (Part 60), IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Title V (Part 70) Area Source

Project Description

This administrative amendment is to Approval Order DAQE-AN0143160001-11, dated January 31, 2011. The DAQ is conducting a 10-year review and is updating the language and format. There are no changes to the operations taking place at the facility.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO ₂ Equivalent	0	1365.00
Carbon Monoxide	0	9.54
Nitrogen Oxides	0	15.05
Particulate Matter - PM ₁₀	0	10.57
Particulate Matter - PM _{2.5}	0	2.45
Sulfur Dioxide	0	1.61
Volatile Organic Compounds	0	1.70

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	0	20
	Change (TPY)	Total (TPY)
Total HAPs	0	0.01

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 Director or Director'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 Director 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: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	Lake Point Limestone Quarry
II.A.2	C-1 Jaw Crusher Make/Model: KPI Manufactured Date: 2007 Capacity: 600 tons per hour
II.A.3	C-2 Cone Crusher Make/Model: Cedarapids Manufactured Date: 2002 Capacity: 600 tons per hour
II.A.4	S-1, 2 Two (2) Triple Deck Screens Make/Model: JCI Manufactured Date: 2007 Size: 7 feet by 20 feet (each)
II.A.5	G-1 Generator Make/Model: Cat C27 Manufactured Date: 2010 Size: 725 kW Fuel Type: Diesel
II.A.6	G-2 Generator Size: 60 kw Fuel Type: Diesel
II.A.7	M-1 Miscellaneous conveyors and stackers

II.A.8	M-2 Drilling and blasting equipment
II.A.9	Mobile Miscellaneous front-end loaders, bulldozers and water trucks
II.A.10	Tanks Diesel storage tanks

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Sitewide Requirements
II.B.1.a	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Not produce more than 750,000 tons of limestone material per rolling 12-month period B. Not operate at the site for more than 2,630 hours per rolling 12-month period C. Not consume more than 84,325 gallons of diesel per rolling 12-month period in the loaders and bulldozer. <p>[R307-401-8]</p>
II.B.1.a.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine production by belt scale records or scale house records B. Record production/operation/consumption on a daily basis C. Use the production/operation/consumption records to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months D. Keep production/operation/consumption records for all periods the plant is in operation. <p>[R307-401-8]</p>
II.B.1.b	The owner/operator shall weigh and account for all aggregate material prior to the aggregate material leaving the site or being used in another process on site. [R307-401-8]
II.B.1.c	Unless otherwise specified in this AO, the owner/operator shall not allow visible emissions from any stationary source on site to exceed 20% opacity. [R307-401-8]
II.B.1.c.1	Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-401-8]
II.B.2	Aggregate Processing Equipment Requirements
II.B.2.a	The owner/operator shall install water sprays on each crusher, screen, conveyor transfer point, and conveyor drop point on site to control emissions. Water sprays shall operate as necessary to prevent visible emissions from exceeding the opacity limits listed in this AO. [R307-401-8]

II.B.2.b	The owner/operator shall perform monthly periodic inspections to check that water is flowing to water sprays associated with each crusher, screen, and conveyor. If the owner/operator finds that water is not flowing properly during an inspection of the water sprays, the owner/operator shall initiate corrective action within 24 hours and complete corrective action as expeditiously as practical. [40 CFR 60 Subpart OOO]
II.B.2.b.1	Records of the water spray inspections shall be maintained in a logbook for all periods when the plant is in operation. The records shall include the following items: A. Date the inspections were made B. Any corrective actions taken C. Control mechanism used if sprays are not operating. [40 CFR 60 Subpart OOO]
II.B.2.c	The owner/operator shall not exceed the following opacity limits for indicated the emission units. A. Crushers - 12% Opacity B. Screens - 7% Opacity C. Conveyor Transfer Points - 7% Opacity D. Conveyor Drop Points - 20% Opacity. [40 CFR 60 Subpart OOO, R307-312-4, R307-401-8]
II.B.3	Crusher, Screen, and Conveyor Requirements
II.B.3.a	The owner/operator shall conduct an initial performance test for each crusher, screen, and conveyor transfer point on site. Performance tests shall demonstrate compliance with the limitations specified in Table 3 to Subpart OOO. [40 CFR 60 Subpart OOO]
II.B.3.a.1	Initial performance tests for fugitive emissions limits shall be conducted according to 40 CFR 60.675(c). The owner or operator may use methods and procedures specified in 40 CFR 60.675(e) as alternatives to the reference methods and procedures specified in 40 CFR 60.675(c). [40 CFR 60 Subpart OOO]
II.B.3.a.2	The owner/operator shall keep and maintain records of the initial performance test for each crusher, screen, and conveyor for the life of the equipment. [40 CFR 60 Subpart OOO]
II.B.4	Engine Generator Requirements
II.B.4.a	The owner/operator shall not allow visible emissions from any generator on site to exceed 20% opacity. [R307-401-8]
II.B.4.b	The owner/operator shall not operate: A. The 725 kW generator engine for more than 2,630 hours per rolling 12-month period B. The 60 kW generator engine for more than 720 hours per rolling 12-month period C. The 725 kW generator engine after 3 am or before 6 am each operating day. [R307-401-8]

II.B.4.b.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Record operations on a daily basis B. Use the operation records to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months C. Keep records of operation for all periods the plant is in operation. <p>[R307-401-8]</p>
II.B.4.c	The owner/operator shall only combust diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [40 CFR 63 Subpart ZZZZ]
II.B.4.c.1	Sulfur content shall be decided by ASTM Methods D2880-71 or D4294-89, or approved equivalent. The sulfur content shall be tested if directed by the Director. [R307-203-1]
II.B.5	Drilling and Blasting Requirements
II.B.5.a	The owner/operator shall not drill more than 6,698 holes per rolling 12-month period. [R307-401-8]
II.B.5.a.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine the number of holes drilled by supervisor monitoring and maintaining of an operations log B. Use the number of holes drilled records to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months. <p>[R307-401-8]</p>
II.B.5.b	The owner/operator shall not blast more than ten (10) times per rolling 12-month period. [R307-401-8]
II.B.5.b.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine the number of blasts by maintaining an operations log B. Use the number of blasts records to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months. <p>[R307-401-8]</p>
II.B.6	Haul Roads and Fugitive Dust Requirements
II.B.6.a	The owner/operator shall comply with a fugitive dust control plan (FDCP) acceptable to the Director for control of all dust sources on site. The owner/operator shall comply with the most current fugitive dust control plan approved by the Director. [R307-309-6]
II.B.6.b	The owner/operator shall not allow visible emissions from haul-road traffic and mobile equipment in operational areas to exceed 20% opacity on site and 10% opacity at the property boundary. [R307-309-5]

II.B.6.b.1	Visible emissions determinations for traffic sources shall use procedures similar to Method 9; however, the requirement for observations to be made at 15-second intervals over a six-minute period shall not apply. The number of observations and the time period shall be determined by the length of the intermittent or mobile source operation. Visible emissions shall be measured at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. The accumulated six (6) readings shall be averaged for the compliance value. [R307-309-4, R307-309-5]
II.B.6.c	The owner/operator shall use water application and chemical suppressant on all haul roads and operational areas on site to maintain opacity limits listed in this AO. Control is required at all times during plant operation. The application rate of water shall be a minimum of 0.25 gallons per square yard applied every four (4) hours, during plant operation, to ensure that all unpaved operational areas are maintained in a moist/damp condition. During nighttime operations, the unpaved operational areas shall be water sprayed at dusk and remain in a moist/damp condition during any plant operation. The application shall be made at all times the plant is in operation unless daily rainfall exceeds 0.10 of an inch, or the road is in a muddy condition, or if it is covered with snow or ice, or if the ambient temperature falls below freezing. If chemical treatment is to be used, the plan must be approved by the Director. [R307-401-8]
II.B.6.c.1	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, quantity of water applied, and application rate C. Rainfall amount received, if any D. Records of temperature, if the temperature is below freezing. [R307-401-8]
II.B.6.d	The owner/operator shall not have more than 1,800 feet in length of haul roads (including paved and unpaved haul roads) on site. [R307-401-8]
II.B.6.e	The owner/operator shall not exceed a haul road speed limit of 15 miles per hour. The haul road speed shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road. [R307-401-8]
II.B.6.f	The owner/operator shall use water application for all storage piles to minimize fugitive dust emissions, as dry conditions warrant or as determined by the Director. [R307-401-8]
II.B.6.g	The owner/operator shall use water application and/or chemical treatment for all open areas to minimize fugitive dust emissions, or equivalent control method approved by the Director. [R307-401-8]. [R307-401-8]
II.B.6.h	The owner/operator shall comply with all applicable fugitive emissions and fugitive dust requirements of Rule R307-309, "Nonattainment and Maintenance Areas for PM ₁₀ and PM _{2.5} : Fugitive Emissions and Fugitive Dust". [R307-309]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes

AO DAQE-AN0143160001-11 dated January 31, 2011

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 Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
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
VOC	Volatile organic compounds