



State of Utah

SPENCER J. COX
Governor

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Lieutenant Governor

Department of
Environmental Quality

Tim Davis
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN122990004-26

January 9, 2026

Boone Bolinder
Bolinder Resources LLC
1830 West Highway 112
Tooele, UT 84074
boone@bolinderresources.com

Dear Mr. Bolinder:

Re: Approval Order: Administrative Amendment to Approval Order DAQE-AN122990003-14 for a
10-Year Review and Permit Updates
Project Number: N122990004

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. Bolinder Resources, LLC 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 Bird \(Jan 9, 2026 14:00:24 MST\)](#)

Bryce C. Bird
Director

BCB:CB:jg

cc: Tooele County Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

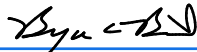
APPROVAL ORDER
DAQE-AN122990004-26
Administrative Amendment to Approval Order
DAQE-AN122990003-14 for a 10-Year Review
and Permit Updates

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

Issued to
Bolinder Resources LLC - Stansbury Island Aggregate Plant

Issued On
January 9, 2026

Issued By



[Bryce Bird \(Jan 9, 2026 14:00:24 MST\)](#)

Bryce C. Bird
Director
Division of Air Quality

TABLE OF CONTENTS

TITLE/SIGNATURE PAGE	1
GENERAL INFORMATION	3
CONTACT/LOCATION INFORMATION	3
SOURCE INFORMATION	3
General Description	3
NSR Classification.....	3
Source Classification	3
Applicable Federal Standards	3
Project Description.....	4
SUMMARY OF EMISSIONS.....	4
SECTION I: GENERAL PROVISIONS	4
SECTION II: PERMITTED EQUIPMENT	5
SECTION II: SPECIAL PROVISIONS.....	6
PERMIT HISTORY	11
ACRONYMS	12

GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Bolinder Resources LLC

Source Name

Bolinder Resources LLC - Stansbury Island
Aggregate Plant

Mailing Address

1830 West Highway 112
Tooele, UT 84074

Physical Address

Stansbury Island, Six miles North from Exit 84
on I-80
Tooele County, UT

Source Contact

Name: Boone Bolinder
Phone: (435) 843-1550
Email: boone@bolinderresources.com

UTM Coordinates

371,460 m Easting
4,517,280 m Northing
Datum NAD83
UTM Zone 12

SIC code 1429 (Stone, Crushed & Broken, NEC)

SOURCE INFORMATION

General Description

Bolinder Resources LLC (Bolinder) is the owner and operator of an aggregate plant located on Stansbury Island in Tooele County. This source is a quartzite rock crushing plant with drilling, blasting, screening, crushing, and transportation activities.

NSR Classification

10-Year Review

Source Classification

Located in Attainment Area
Tooele County
Airs Source Size: SM

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 AO DAQE-AN122990003-14, dated September 24, 2014. The DAQ is conducting a 10-year review to update permit conditions, format, and rule applicability. There are no changes to the operations taking place at the Stansbury Island Aggregate Plant.

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	4513.00
Carbon Monoxide	0	5.32
Nitrogen Oxides	0	29.44
Particulate Matter - PM ₁₀	0	10.66
Particulate Matter - PM _{2.5}	0	2.33
Sulfur Dioxide	0	0.16
Volatile Organic Compounds	0	0.46

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	0	100
	Change (TPY)	Total (TPY)
Total HAPs	0	0.05

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	Stansbury Island Aggregate Plant Quartzite crushing operations
II.A.2	Conveyor Belts and Stackers
II.A.3	Three (3) Crushers One (1) Jaw Crusher Capacity: 2,000 tons per hour One (1) Jaw Crusher Capacity: 500 tons per hour One (1) Cone Crusher Capacity: 300 tons per hour Size: 54 inches
II.A.4	One (1) Vertical Shaft Impactor Capacity: 400 tons per hour
II.A.5	Four (4) Diesel-Fueled Generator Engines One (1) rated 725 kilowatts (kW) Construction date: 2013 One (1) rated 725 kW Construction date: 2009 One (1) rated 1,310 kW Construction date: 2009 One (1) rated 150 kW Construction date: 2009
II.A.6	Miscellaneous Diesel-Fueled Generator Engines Maximum combined rating: 32 horsepower (hp)

II.A.7	<p>Feeders One (1) Grizzly Feeder</p> <p>Three (3) Vibrating Feeders Two (2) Previously Permitted One (1) rated 2,000 tons per hour</p>
II.A.8	<p>Miscellaneous Mobile Equipment Loaders, track hoes, trucks, trailers, drills, and automobiles. Listed for informational purposes only</p>
II.A.9	<p>Dozer Trap</p>
II.A.10	<p>Twin Screen Capacity: 200 tons per hour</p>
II.A.11	<p>Double-Deck Screen Capacity: 800 tons per hour Size: 6' x 20'</p>
II.A.12	<p>Miscellaneous Welding Operations</p>

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	<p>Site-Wide Requirements</p>
II.B.1.a	<p>The owner/operator shall not produce more than 600,000 tons of combined aggregate processed and bank run per rolling 12-month period. [R307-401-8]</p>
II.B.1.a.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine aggregate processed and bank run production with sales records or scale records. B. Record aggregate processed and bank run production on a daily basis. C. Use the production data to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months. D. Keep the aggregate processed and bank run production records for all periods the plant is in operation. <p>[R307-401-8]</p>
II.B.1.b	<p>The owner/operator shall not produce more than 28,800 tons of combined crushed aggregate per day. [R307-401-8]</p>

<p>II.B.1.b.1</p>	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine production daily using a belt scale B. Keep the combined aggregate crushed production records for all periods the plant is in operation. <p>[R307-401-8]</p>
<p>II.B.1.c</p>	<p>Unless otherwise specified in this AO, the owner/operator shall not allow visible emissions to exceed the following limits:</p> <ul style="list-style-type: none"> A. Crushers that commenced construction were modified or reconstructed before April 22, 2008 - 15% opacity; B. Crushers that commenced construction were modified or reconstructed after April 22, 2008 - 12% opacity; C. Screening operations and conveyor belt transfer points that commenced construction were modified or reconstructed before April 22, 2008 -10% opacity; D. Screening operations and conveyor belt transfer points that commenced construction were modified or reconstructed after April 22, 2008 -7% opacity; E. All conveyor drop points - 20% opacity; F. All generator engines - 20% opacity; G. Welding operations - 20% opacity; and H. All other points - 20% opacity. <p>[40 CFR 60 Subpart OOO, R307-401-8]</p>
<p>II.B.1.c.1</p>	<p>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]</p>
<p>II.B.2</p>	<p>Generator Engine Requirements</p>
<p>II.B.2.a</p>	<p>The owner/operator shall not exceed the following emissions combined from the generator engines:</p> <ul style="list-style-type: none"> A. 0.33 tons per rolling 12-month period of PM, B. 0.47 tons per rolling 12-month period of VOC/HC, C. 29.02 tons per rolling 12-month period of NO_x, and D. 3.64 tons per rolling 12-month period of CO. <p>[R307-401-8]</p>

<p>II.B.2.a.1</p>	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Record operating hours for each engine in a log book based on the engine's hour meter on a daily basis. B. Determine emissions for each engine using each engine's emission factors and hours of operation. C. Use the emissions data to calculate new rolling 12-month totals for all engines combined by the 20th day of each month using data from the previous 12 months. <p>[R307-401-8]</p>
<p>II.B.2.a.2</p>	<p>The owner/operator shall use the following emission factors in engine emission calculations:</p> <p>For the 1,310 kW diesel-fired generator engine, the emission factors are, in g/hp-hr: PM = 0.05, VOC/HC = 0.12, NO_x = 4.55, and CO = 0.79.</p> <p>For the 725 kW diesel-fired generator engine manufactured in 2013, the emission factors are, in g/hp-hr: PM = 0.04, VOC/HC = 0.06, NO_x = 1.93, and CO = 0.53.</p> <p>For the 725 kW diesel-fired generator engine manufactured in 2009, the emission factors are, in g/hp-hr: PM = 0.02, VOC/HC = 0.03, NO_x = 4.61, and CO = 0.27.</p> <p>For the 150 kW diesel-fired generator engine, the emission factors are, in lb/hp-hr: PM = 0.0022, VOC/HC = 0.000247, NO_x = 0.031, and CO = 0.00668.</p> <p>For the miscellaneous diesel-fired generator engines listed in II.A.6, the emission factors that shall be used to calculate the emissions are, in lb/hp-hr: PM = 0.0022, VOC/HC = 0.000247, NO_x = 0.031, and CO = 0.00668.</p> <p>[R307-401-8]</p>
<p>II.B.2.b</p>	<p>All engines shall each be equipped with an operable non-resettable hour meter. [40 CFR 63 Subpart ZZZZ, R307-401-8]</p>
<p>II.B.2.c</p>	<p>The owner/operator shall only combust fuel oil or diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [R307-401-8]</p>
<p>II.B.2.c.1</p>	<p>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]</p>
<p>II.B.3</p>	<p>Fugitive Dust Requirements</p>
<p>II.B.3.a</p>	<p>The owner/operator shall comply with an FDCP that is approved by the Director. [R307-401-8]</p>
<p>II.B.3.b</p>	<p>The owner/operator shall not exceed the following unpaved haul road lengths:</p> <ul style="list-style-type: none"> A. 0.55 miles in length for each unpaved haul road truck route, as measured from the entrance of the property. B. 0.09 miles in length for the loader, bobcat and water truck operating route. <p>[R307-401-8]</p>

II.B.3.c	<p>The owner/operator shall apply water and chemical treatment to all unpaved roads and other unpaved operational areas that are used by mobile equipment to control fugitive dust. The owner/operator shall apply water and chemical treatment except when the ambient temperature is below freezing (32°F). The treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition unless the temperature is below freezing. [R307-401-8]</p>
II.B.3.c.1	<p>The owner/operator shall keep records of water application for all periods when the plant is in operation. The records shall include the following items:</p> <ul style="list-style-type: none"> A. Date of application. B. Number of treatments made. C. Time of day the treatments were made. D. Temperature records, if the temperature is below freezing. E. Wind speed, as measured by a hand-held anemometer or equivalent device, if claiming the wind speed exemption listed in the condition below. <p>[R307-401-8]</p>
II.B.3.d	<p>The owner/operator shall not allow visible emissions from any fugitive dust source to exceed 20% opacity.</p> <p>The 20% opacity limitation may be exceeded if:</p> <ul style="list-style-type: none"> A. Wind speeds are greater than 25 mph, as measured by a hand-held anemometer or equivalent device. B. The owner/operator is implementing its accepted FDCP. C. The owner/operator is implementing one of the following: pre-event watering, hourly watering, additional chemical stabilization, cease or reduce fugitive dust producing operations, or other contingency measures approved by the Director. <p>[R307-401-8]</p>
II.B.3.d.1	<p>Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment operational areas 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]</p>
II.B.3.e	<p>The owner/operator shall water all storage piles on site to prevent visible emissions from exceeding the opacity limits listed in this AO. [R307-401-8]</p>
II.B.3.e.1	<p>The owner/operator shall keep records of water and/or chemical treatment for all periods when the plant is in operation. Records of water and/or chemical treatment shall be made available to the Director or Director's representative upon request. [R307-401-8]</p>
II.B.3.f	<p>The owner/operator shall not exceed a vehicle speed of 15 miles per hour along the haul roads. The owner/operator shall post the vehicle speed on the haul road, 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]</p>

II.B.4	Aggregate Processing Equipment Requirements
II.B.4.a	The owner/operator shall install water sprays or chemical dust suppression sprays on each crusher, screen, and conveyor transfer point on site to control emissions. The sprays shall operate as necessary to prevent visible emissions from exceeding the opacity limits listed in this AO. [R307-401-8]
II.B.4.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 that commenced construction, modification, or reconstruction on or after April 22, 2008. 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.4.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.4.c	For each crusher, screen, and conveyor on site that commenced construction, modification, or reconstruction after August 31, 1983, the owner/operator shall conduct an initial performance test within 60 days after achieving the maximum production rate but not later than 180 days after initial startup. Performance tests shall meet the limitations specified in Table 3 to Subpart OOO. Records of initial performance tests shall be kept and maintained on site for the life of the equipment. [40 CFR 60 Subpart OOO]
II.B.4.c.1	Initial performance tests for fugitive emissions limits shall be conducted according to 40 CFR 60.675(c). The owner/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.5	Drilling and Blasting Requirements
II.B.5.a	The owner/operator shall not exceed the following limits: A. 50 blasting episodes per rolling 12-month period. B. 2,500 holes for blasting per rolling 12-month period. C. 50 tons of ammonium nitrate and fuel oil (ANFO) per rolling 12-month period. [R307-401-8]

<p>II.B.5.a.1</p>	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine the number of blasting episodes and the number of holes drilled by the supervisor monitoring and maintaining of an operations log. B. Determine the weight of ANFO shall be determined by weighing material before it is placed in the blasting hole. C. 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>
<p>II.B.5.b</p>	<p>The owner/operator shall conduct wet drilling when drilling holes for explosive blasting. [R307-401-8]</p>

PERMIT HISTORY

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

Supersedes
Incorporates

AO DAQE-AN122990003-14 dated September 24, 2014
Additional Information dated November 6, 2025

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 _{2e}	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