



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-AN109020003-22

July 30, 2022

Russ Feller
Feller Stone Incorporated
688 East Chad Ranch Road
Veyo, UT 84782
russ@fellerstone.com

Dear Mr. Feller:

Re: Approval Order:
Administrative Amendment to Approval Order DAQE-981-96 for a 10-Year Review and Permit
Updates
Project Number: N109020003

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. Feller Stone Incorporated must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Rita Trick**, who can be contacted at (385) 290-2474 or rtrick@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. No public comments were received on this action.

Sincerely,

Bryce C. Bird
Director

BCB:RT:jg

cc: Southwest Utah Public Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN109020003-22
Administrative Amendment to Approval Order DAQE-981-96 for a
10-Year Review and Permit Updates

Prepared By
Rita Trick, Engineer
(385) 290-2474
rtrick@utah.gov

Issued to
Feller Stone Incorporated- Decorative Rock Production

Issued On
July 30, 2022

Issued By

A handwritten signature in black ink, appearing to read 'Bryce C. Bird', is positioned above the printed name.

Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Feller Stone Incorporated

Source Name

Feller Stone Incorporated - Decorative Rock
Production

Mailing Address

688 East Chad Ranch Road
Veyo, UT 84782

Physical Address

688 East Chad Ranch Road
Veyo, UT 84782

Source Contact

Name Russ Feller
Phone (435) 229-0999
Email russ@fellerstone.com

UTM Coordinates

262,799 m Easting
4,136,404 m Northing
Datum NAD83
UTM Zone 12

SIC code 3281 (Cut Stone & Stone Products)

SOURCE INFORMATION

General Description

Feller Stone Incorporated produces decorative rocks. Raw material is shipped in from out of state. Site operation involves sandblasting and cleaning of rocks.

NSR Classification

10-Year Review

Source Classification

Located in Attainment Area
Washington County
Airs Source Size: B

Applicable Federal Standards

None

Project Description

This Administrative Amendment is a 10-year review of this source and the Approval Order DAQE-981-96 dated October 30, 1996, associated with it. Various contact information has been updated.

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)
Carbon Monoxide	0	0.30
Nitrogen Oxides	0	0.96
Particulate Matter	0	3.57
Particulate Matter - PM ₁₀	0	2.85
Particulate Matter - PM _{2.5}		2.85
Sulfur Dioxide	0	0.10

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	0	40
	Change (TPY)	Total (TPY)
Total HAPs	0	0.02

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	Feller Stone Incorporated Decorative Rock Production
II.A.2	One (1) Contaminant Control Corporation Baghouse Number of Bags: 144 Model 144 Air Flow 14,000 acfm Air-to-Cloth ratio is 6.2:1 Cleaning Method: Compressed air pulse Power Source: 40 HP electric motor
II.A.3	One (1) Aget Manufacturing, Michigan Baghouse Number of Bags: 64 Model FT64S201-2H Air Flow 700 acfm Air-to-Cloth ratio is 6.2:1 Cleaning Method: Compressed air pulse Power Source: 20 HP electric motor
II.A.4	One (1) Jaw Crusher Manufactured: 1965 Size: 10" x 36" and 18" roller
II.A.5	Associated Equipment Includes: Front-end loader, fork-lift, cement mixer, etc.

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Facility-Wide Requirements
II.B.2	The owner/operator shall make a copy of this AO available on site. The owner/operator shall make the AO available to the employees who operate the air emission producing equipment. The owner/operator shall ensure all employees receive instruction as to their responsibilities in operating the equipment according to all of the relevant conditions listed below.
II.B.2.a	The owner/operator shall not allow visible emissions from the following emission points to exceed the following values: A. Baghouse exhausts - 10% opacity B. All other points - 20% opacity. [R307-401-8]
II.B.2.a.1	Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. [R307-401-8]

II.B.2.b	The owner/operator shall not allow fugitive emissions associated with the source or with control facilities to exceed 20% opacity. [R307-401-8]				
II.B.2.b.1	Opacity observations of fugitive dust from intermittent sources shall be conducted according to 40 CFR 60, Appendix A, 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 source. For fugitive dust generated by mobile sources, visible emissions shall be measured at the densest point of the plume but at a point not less than one-half vehicle length behind the vehicle and not less than one-half the height of the vehicle. [R307-401-8]				
II.B.2.c	The owner/operator shall install a manometer or magnehelic pressure gauge to measure the differential pressure across each fabric filter. [R307-401-8]				
II.B.2.c.1	The pressure gauge shall be located such that an inspector/operator can safely read the indicator at any time. [R307-401-8]				
II.B.2.d	During operation of the fabric filters, the owner/operator shall maintain the static pressure drop across the baghouse range between 3 to 8 inches of water column. [R307-401-8]				
II.B.3	Stack Testing Requirements				
II.B.3.a	<p>The owner/operator shall not allow emissions from each of the baghouses to exceed the following rates and concentrations:</p> <table> <tr> <td>Pollutant</td><td>grains/dscf</td></tr> <tr> <td>PM₁₀</td><td>0.016</td></tr> </table> <p>[R307-401-8]</p>	Pollutant	grains/dscf	PM ₁₀	0.016
Pollutant	grains/dscf				
PM ₁₀	0.016				
II.B.3.b	The owner/operator shall conduct any stack testing required by this AO according to the following conditions. [R307-401-8]				
II.B.3.b.1	<p>Notification</p> <p>At least 30 days prior to conducting a stack test, the owner/operator shall submit a source test protocol to the Director. The source test protocol shall include the items contained in R307-165-3. If directed by the Director, the owner/operator shall attend a pretest conference. [R307-165-3, R307-401-8]</p>				
II.B.3.b.2	<p>Testing & Test Conditions</p> <p>The owner/operator shall conduct testing according to the approved source test protocol and according to the test conditions contained in R307-165-4. [R307-165-4, R307-401-8]</p>				
II.B.3.b.3	<p>Access</p> <p>The owner/operator shall provide Occupational Safety and Health Administration (OSHA)- or Mine Safety and Health Administration (MSHA)-approved access to the test location. [R307-401-8]</p>				
II.B.3.b.4	<p>Reporting</p> <p>No later than 60 days after completing a stack test, the owner/operator shall submit a written report of the results from the stack testing to the Director. The report shall include validated results and supporting information. [R307-165-5, R307-401-8]</p>				
II.B.3.b.5	<p>Possible Rejection of Test Results</p> <p>The Director may reject stack testing results if the test did not follow the approved source test protocol or for a reason specified in R307-165-6. [R307-165-6, R307-401-8]</p>				

II.B.3.c	Test Methods When performing stack testing, the owner/operator shall use the appropriate EPA-approved test methods as acceptable to the Director. Acceptable test methods for pollutants are listed below. [R307-401-8]
II.B.3.c.1	Standard Conditions A. Temperature - 68 degrees Fahrenheit (293 K) B. Pressure - 29.92 in Hg (101.3 kPa) C. Averaging Time - As specified in the applicable test method [40 CFR 60 Subpart A, 40 CFR 63 Subpart A, R307-401-8]
II.B.3.c.2	PM₁₀ Total PM ₁₀ = Filterable PM ₁₀ Filterable PM ₁₀ 40 CFR 60, Appendix A, Method 5; 40 CFR 51, Appendix M, Method 201; Method 201A; or other EPA-approved testing method as acceptable to the Director. If other approved testing methods are used which cannot measure the PM ₁₀ fraction of the filterable particulate emissions, all of the filterable particulate emissions shall be considered PM ₁₀ . [R307-401-8]
II.B.4	Operation, Production, and Consumption Limits
II.B.4.a	The owner/operator shall not operate each baghouse for more than 4,160 hours per rolling 12-month period. [R307-401-8]
II.B.4.a.1	To determine compliance with a rolling 12-month total, the owner/operator shall: <ul style="list-style-type: none"> A. Determine hours of operation with a supervisor monitoring and maintaining an operations log B. Record hours of operation each day C. Use the hours of operation to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months D. Keep hours of operation records for all periods the plant is in operation. [R307-401-8]
II.B.4.b	The owner/operator shall not produce more than 3,000 tons of rocks per rolling 12-month period. [R307-401-8]
II.B.4.b.1	To determine compliance with a rolling 12-month total, the owner/operator shall: <ul style="list-style-type: none"> A. Determine production with an operations log B. Record 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 production records for all periods the plant is in operation. [R307-401-8]

II.B.4.c	The owner/operator shall not consume more than 6,000 gallons of #2 diesel fuel per rolling 12-month period. [R307-401-8]
II.B.4.c.1	<p>To determine compliance with a rolling 12-month total, the owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine consumption with an operations log B. Record consumption on a daily basis C. Use the consumption 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 consumption records for all periods the plant is in operation. <p>[R307-401-8]</p>
II.B.5	Roads and Fugitive Dust
II.B.5.a	The owner/operator shall apply water and/or chemicals to control fugitive dust from unpaved roads and other unpaved operational areas that are used by mobile equipment. Treatment shall be of a sufficient frequency and quantity to ensure the opacity limits listed in the AO are not exceeded. The owner/operator may stop water application if the temperature is below freezing. [R307-401-8]
II.B.5.a.1	<p>Records of water treatment shall be kept for all periods the plant is in operation. The records shall include the following items:</p> <ul style="list-style-type: none"> A. Date and time of day treatments were made B. Number of treatments made, dilution ratio, and quantity of water applied C. Rainfall amount received, if any, and approximate amount. <p>[R307-401-8]</p>
II.B.5.b	The owner/operator shall ship all material used for sandblasting and all waste material generated from sandblasting off-site. The owner/operator shall cover all temporary outside stockpiles of waste sandblasting material to prevent windblown fugitive dust. The owner/operator shall water storage piles to minimize the generation of fugitive dust as dry conditions warrant or as determined necessary by the Director. [R307-401-8]
II.B.6	Fuel
II.B.6.a	The owner/operator shall use diesel fuel with a sulfur content that does not exceed 0.5 percent by weight. [R307-401-8]
II.B.6.a.1	Sulfur content shall be decided by ASTM Method D-4294-89, or approved equivalent. The sulfur content shall be tested if directed by the Director. [R307-401-8]

PERMIT HISTORY

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

Supersedes
Is Derived From

AO DAQE-981-96 dated October 30, 1996
Additional Information dated April 28, 2022

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