



State of Utah

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Department of  
Environmental Quality

Kimberly D. Shelley  
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DIVISION OF AIR QUALITY  
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Director

DAQE-IN140320002-21

October 14, 2021

Christopher Sandberg  
Granite Mill and Fixture Company  
2580 S. Decker Lake Blvd., Suite 900  
West Valley City, UT 84119  
chriss.granitemill@gmail.com

Dear Mr. Sandberg:

Re: Intent to Approve:  
Minor Modification to Approval Order DAQE-AN0140320001-07 to Update Location,  
Emissions, and Process  
Project Number: N140320002

The attached document is the Intent to Approve (ITA) for the above-referenced project. The ITA is subject to public review. Any comments received shall be considered before an Approval Order (AO) 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 AO. An invoice will follow upon issuance of the final AO.

Future correspondence on this ITA should include the engineer's name, **Andrea Marino**, as well as the DAQE number as shown on the upper right-hand corner of this letter. Andrea Marino, can be reached at (801) 834-8417 or [abartlett@utah.gov](mailto:abartlett@utah.gov), if you have any questions.

Sincerely,

  
Jon Black (Oct 7, 2021 12:52 MDT)

Jon L. Black, Manager  
New Source Review Section

JLB:AM:sa

cc: Salt Lake County Health Department


**STATE OF UTAH**  
**Department of Environmental Quality**  
**Division of Air Quality**

**INTENT TO APPROVE**  
**DAQE-IN140320002-21**  
**Minor Modification to Approval Order DAQE-AN0140320001-07**  
**to Update Location, Emissions, and Process**

**Prepared By**  
**Andrea Marino, Engineer**  
**(801) 834-8417**  
**abartlett@utah.gov**

**Issued to**  
**Granite Mill & Fixture Company - Custom Millwork**

**Issued On**  
**October 14, 2021**

  
Jon Black (Oct 7, 2021 12:52 MDT)

**New Source Review Section Manager**  
**Jon L. Black**

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## GENERAL INFORMATION

### CONTACT/LOCATION INFORMATION

**Owner Name**

Granite Mill and Fixture Company

**Source Name**

Granite Mill & Fixture Company - Custom Millwork

**Mailing Address**

2580 S. Decker Lake Blvd., Suite 900  
West Valley City, UT 84119

**Physical Address**

2580 S. Decker Lake Blvd., Suite 900  
West Valley City, UT 84119

**Source Contact**

Name Christopher Sandberg  
Phone (801) 467-3222  
Email chriss.granitemill@gmail.com

**UTM Coordinates**

419,540 m Easting  
4,507,498 m Northing  
Datum NAD83  
UTM Zone 12

**SIC code** 2431 (Millwork)

### SOURCE INFORMATION

**General Description**

Granite Mill and Fixture Company (Granite Mill) manufactures custom high-end furniture and cabinets. Wood pieces are mechanically prepared by edging, planing, sanding, etc. Final products are assembled followed by the application of sealers, paints, and stains in paint booths. Final products are air dried and then delivered to customers.

**NSR Classification**

Minor Modification at Minor Source

**Source Classification**

Located in Northern Wasatch Front O3 NAA, Salt Lake City UT PM<sub>2.5</sub> NAA, Salt Lake County SO<sub>2</sub> NAA  
Salt Lake County  
Airs Source Size: B

**Applicable Federal Standards**

None

**Project Description**

Granite Mill recently moved to a new location and is requesting to update their emissions and process. Emissions from this facility are primarily VOC and HAP from paint coatings. The site includes four (4) painting booths with filters for PM control and one (1) baghouse that vents inside 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)
Particulate Matter - PM <sub>10</sub>	-0.01	0.49
Particulate Matter - PM <sub>2.5</sub>	-0.01	0.49
Volatile Organic Compounds	-2.9	15.60

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	-5520	2140
Toluene (CAS #108883)	3680	3680
	Change (TPY)	Total (TPY)
Total HAPs	-0.92	2.91

### PUBLIC NOTICE STATEMENT

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 Director.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the ITA will be published in the Salt Lake Tribune on October 17, 2021. 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.

### SECTION I: GENERAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

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]
I.8	The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]

## SECTION II: PERMITTED EQUIPMENT

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

### II.A THE APPROVED EQUIPMENT

II.A.1	<b>Granite Mill and Fixture Company</b>
II.A.2	<b>Four (4) Paint Booths</b> HVLP Paint Guns Control: Stack with filter pads
II.A.3	<b>One (1) Baghouse</b> Sawdust control Vents Indoors

## SECTION II: SPECIAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

### II.B REQUIREMENTS AND LIMITATIONS

II.B.1	<b>Site-Wide Requirements</b>
II.B.1.a	The owner/operator shall install filter pads in the paint booth stacks to control particulate emissions. [R307-401-8]
II.B.1.b	The owner/operation shall not allow visible emissions from the paint booth stacks to exceed 10% 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. [R307-401-8]
II.B.2	<b>VOC &amp; HAP Requirements</b>
II.B.2.a	<p>The owner/operator shall not emit more than the following from evaporative sources (painting, printing, coating, and/or cleaning) on site:</p> <p>15.6 tons per rolling 12-month period of VOCs                      1.84 tons per rolling 12-month period of Toluene (HAP)                      2.91 tons per rolling 12-month period of all HAPs combined</p> <p>[R307-401-8]</p>
II.B.2.a.1	<p>The owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. The owner/operator shall use a mass-balance method to calculate emissions from evaporative sources. The owner/operator may use the following equations with applicable units to comply with the mass-balance method:</p> <p>VOCs = [% VOCs by Weight/100] x [Density] x [Volume Consumed]                      HAP = [% HAP by Weight/100] x [Density] x [Volume Consumed]</p> <p>[R307-401-8]</p>
II.B.2.a.2	<p>The owner/operator shall use a mass-balance method to quantify any amount of VOCs and HAPs reclaimed. The owner/operator shall subtract the amount of VOCs and HAPs reclaimed from the quantities calculated above to provide the monthly total emissions of VOCs and HAPs.</p> <p>[R307-401-8]</p>
II.B.2.a.3	<p>The owner/operator shall keep records each month of the following:</p> <ul style="list-style-type: none"> <li>A. The name (as per SDS) of the VOC- and HAP-emitting material</li> <li>B. The maximum percent by weight of VOCs and each HAP in each material used</li> <li>C. The density of each material used</li> <li>D. The volume of each VOC- and HAP-emitting material used</li> <li>E. The amount of VOCs and the amount of each HAP emitted from each material</li> </ul>

	<p>F. The amount of VOCs and the amount of each HAP reclaimed and/or controlled from each material</p> <p>G. The total amount of VOCs, the total amount of each HAP, and the total amount of all HAPs combined emitted from all materials (in tons)</p> <p>[R307-401-8]</p>
<p>II.B.2.b</p>	<p>The owner/operator shall comply with R307-343, Wood Manufacturing Operations. [R307-343, R307-401-8]</p>

### **PERMIT HISTORY**

This Approval Order shall supersede or will be based on the following documents:

<p>Supersedes</p> <p>Is Derived From</p> <p>Incorporates</p> <p>Incorporates</p> <p>Incorporates</p>	<p>AO DAQE-AN0140320001-07 dated July 10, 2007</p> <p>NOI dated June 25, 2021</p> <p>Additional Information dated July 15, 2021</p> <p>Additional Information dated July 29, 2021</p> <p>Additional Information dated August 19, 2021</p>
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## 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 <sub>2</sub>	Carbon Dioxide
CO <sub>2e</sub>	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 <sub>x</sub>	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM <sub>10</sub>	Particulate matter less than 10 microns in size
PM <sub>2.5</sub>	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 <sub>2</sub>	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