

Owen Joist Corp., a Division of CMC Steel Fabricators  
SMI Joist of Florida, Inc.

**Facility ID No.:** 0070016  
Bradford County

Title V Air Operation Permit Revision  
PROPOSED Permit Project No.: 0070016-009-AV  
Revision to Title V Air Operation Permit No. 0070016-007-AV

Permitting and Compliance Authority:  
State of Florida Department of Environmental Protection  
Northeast District (NED) Air Program  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590  
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**Title V Air Operation Permit Revision**

**PROPOSED Permit No.: 0070016-009-AV**

**Revision of Title V Air Operation Permit No.: 0070016-007-AV**

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# Department of Environmental Protection

**Jeb Bush**  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

**Colleen Castille**  
Secretary

**Permittee:**  
Owen Joist Corp.,  
A Division of CMC Steel Fabricators  
SMI Joist of Florida, Inc.

**PROPOSED Permit No.:** 0070016-009-AV  
**Facility ID No.:** 0070016  
**SIC Nos.:** 3732  
**Project:** Title V Air Operation Permit Revision

The purpose of this permit is to incorporate the terms and conditions of Air Construction Permit No. 0070016-008-AC. The construction permit modifies Air Construction Permit No. 0070015-001-AV to establish that the facility is no longer major for HAPs, modifies Air Construction Permit No. 0070016-004-AV removing Paint dip Tanks Nos. 7 and 8, and sets new dimensions for Paint Dip Tank No. 1. This existing facility is located at 14099 SE 44<sup>th</sup> Avenue, Starke, Bradford County, Florida; UTM Coordinates: Zone 17, 391.8 km East and 3309.75 km North; Latitude: 29° 54' 55" North and Longitude: 82°07'15" West.

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

**Referenced attachments made a part of this permit:**

APPENDIX TV-5, TITLE V CONDITIONS version dated 03/28/05

APPENDIX I-1, List of Insignificant Emissions Units and/or Activities

**Effective Date:**

**Renewal Application Due Date:** February 5, 2008

**Expiration Date:** August 5, 2008

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**Christopher L. Kirts, P.E.**  
District Air Program Administrator

CLK:anp

## **Section I. Facility Information**

### **Subsection A. Facility Description.**

SMI Joist of Florida manufactures longspan steel joists used as engineered structural members in support of roof decks in buildings. Raw steel materials (flat sections, angles, smooth rounds, etc.) are received either from truck trailers or via rail. The various components are welded together on-line using gas metal arc welding (GMAW) to form a joist. The joist is then moved down the production line where it is "bundled" with similar joists and lowered by crane into one of six dip tanks to allow for full paint coverage. The joists are placed over a run-off plate, which allows the excess paint to drip back into the tank. The joists are moved to the drying area. After air drying in ambient air, the joists are either loaded for shipping to the customer or stored for near-term shipping.

The majority of paint applied to the joists, by dipping, is primer paint, however, special orders require alternative and/or finish coating. In addition, touch-up painting may be required. An air-pressure spray gun is used for these types of finishes. Spray gun usage is limited to 2,500 gallons of coating per calendar year.

Clean-up solvent is used where needed in the facility, but primarily in the dip tank area. It is used mainly for the cleanup of painting equipment (spray guns and lines, paint pumps, mixers, and storage totes). Clean-up solvent usage is limited to 400 gallons per calendar year.

The paint dipping tanks are taken down for maintenance on an annual basis. All of the paint that is capable of being pumped is temporarily stored in drums and put back into the tank for re-use. The sludge and solid paint wastes are placed into drums for temporary storage prior to final removal from the facility.

Secondary facility operations include a maintenance storeroom, workshop, steel decking storage and cutting building, and administrative offices.

Also included in this permit are miscellaneous insignificant emissions units and/or activities.

Based on Air Construction Permit No. 0070016-008-AC, this facility is **NOT** a major source of hazardous air pollutants (HAPs).

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

**Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).**

**Regulated Emissions Units:**

<b>E.U. ID No.</b>	<b>Brief Description</b>
-001	Fugitive Emissions from: <ul style="list-style-type: none"><li>▪ Paint Dipping Tank No. 1 is 75'(L) by 4.5'(W) by 7.67'(D)</li><li>▪ Paint Dipping Tank Nos. 2, 3, and 4. Each are 75'(L) by 4.5'(W) by 6.17'(D)</li><li>▪ Paint Dipping Tank Nos. 5 and 6. Each are 22'(L) by 4'(W) by 6'(D)</li></ul>
-003	Fugitive Emissions from Clean-up solvent use

**Subsection C. Relevant Documents**

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms

Table 2-1, Summary of Compliance Requirements

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers

Appendix H-1, Permit History

Statement of Basis

These documents are on file with permitting authority:

Initial Title V Permit issued May 27, 1998.

Application for Title V Air Operation Permit Renewal received December 23, 2002.

Additional Information Request dated January 24, 2003.

Additional Information Response received February 21, 2003.

Additional Information Request dated March 6, 2003.

Additional Information Response received March 26, 2003.

Application for Title V Air Operation Permit Revision received June 1, 2005.

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

## **Section II. Facility-wide Conditions.**

### **The following conditions apply facility-wide:**

1. APPENDIX TV-5, TITLE V CONDITIONS, is a part of this permit.  
{Permitting note: APPENDIX TV-5, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}
  2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor.  
[Rule 62-296.320(2), F.A.C.; Air Construction Permit No. 0070016-004-AC]
  3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.  
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]
  4. Prevention of Accidental Releases (Section 112(r) of CAA).
    - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:  

RMP Reporting Center  
Post Office Box 1515  
Lanham-Seabrook, MD 20703-1515  
Telephone: 301/429-5018
- and,
- b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.  
[40 CFR 68]
5. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.  
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

**6. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. At a minimum, the following procedures shall be us followed to minimize pollutant emissions:

- Maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.
- Where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use
- All fittings, valves, lines, etc., shall be properly maintained
- All VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.
- Maintain a monthly accounting of the paint used per type such that the beginning inventory and deliveries are accounted for. The amount used shall be calculated by adding the beginning inventories to the deliveries less the ending inventories.

[Rule 62-296.320(1)(a), F.A.C.; Air Construction Permit No. 0070016-004-AC.]

**7. Emissions of Unconfined Particulate Matter.** Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-5, TITLE V CONDITIONS):

The following requirements are “not federally enforceable”:

<b>Emissions Source Operations</b>	<b>Description &amp; Control Measures</b>
Unsurfaced industrial roads located onsite.	Vehicle traffic and traffic speed shall continue to be limited.
Activities which may cause airborne PM.	Such activities will be confined or enclosed, whenever practical.
Sandblasting.	In instances where wind speed is greater than 5 mph and sandblasting cannot be rescheduled, portable screens around the blasting area will be erected.

[Rule 62-296.320(4)(c)2., F.A.C.; Proposed by applicant in the Initial and Renewal Title V permit application submittals received June 17, 1997, and December 23, 2002, respectively.]

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

**8.** When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.  
[FAC Rule 62-213.440(1)]

**9. Statement of Compliance.** The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.  
[Rules 62-213.440(3) and 62-213.900, F.A.C.]

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-5, TITLE V CONDITIONS)}

**10.** The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northeast District Office, Air Section:

Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590  
Telephone: 904/807-3300  
Fax: 904/448-4363

**11.** Any reports, data, notifications, certification, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency  
Region 4  
Air, Pesticides & Toxics Management Division  
Air and EPCRA Enforcement Branch  
Air Enforcement Section  
61 Forsyth Street  
Atlanta, Georgia 30303-8960  
Telephone: 404/562-9155; Fax: 404/562-9163

**12. Certification by Responsible Official (RO).** In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.  
[Rule 62-213.420(4), F.A.C.]

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**



**Section III. Emissions Unit(s) and Conditions.**

**Subsection A. Common Conditions.**

<b><u>E.U. ID No.</u></b>	<b><u>Brief Description</u></b>
-001	Fugitive Emissions from: <ul style="list-style-type: none"><li>▪ Paint Dipping Tank No. 1 is 75'(L) by 4.5'(W) by 7.67'(D)</li><li>▪ Paint Dipping Tank Nos. 2, 3, and 4. Each are 75'(L) by 4.5'(W) by 6.17'(D)</li><li>▪ Paint Dipping Tank Nos. 5 and 6. Each are 22'(L) by 4'(W) by 6'(D)</li></ul>
-003	Fugitive Emissions from Clean-up solvent usage

Emission Unit 001 identifies the fugitive emissions associated with the six (6) paint dipping tanks used at the facility. Joist products are dipped into the tank to allow full paint coverage and the suspended over the tanks so that the excess can drip back into the tank. Spray guns are used for touch up painting in this area, however the usage is limited to 2,500 gallons of coating per calendar year.

Emissions Unit 003 identifies the fugitive emissions associated with the use of clean-up solvents throughout the facility. Usage is limited to 400 gallons per year.

**The following specific conditions apply to the emissions unit(s) listed above:**

**Essential Potential to Emit (PTE) Parameters**

**A.1. Capacity.** The maximum rates listed below shall not be exceeded without prior Department approval:

<b><u>Material</u></b>	<b><u>Rate (Per 12 Consecutive Months)</u></b>
Cleanup solvent	400 gallons
Spray Gun Coating Usage	2,500 gallons

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., Permit 0070016-001-AC]

**A.2. Hours of Operation.** This emissions unit is allowed to operate continuously; 24 hours per day, 7 days per week, 52 weeks per year; i.e. 8,760 hours/year.

[Rule 62-210.200(PTE), F.A.C. ]

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

**Emission Limitations and Standards**

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**A.3. Volatile Organic Compounds.** VOC emissions, on a facility-wide basis, shall not exceed 330 tons per 12-month rolling average.  
[Air construction permit 0070016-004-AC; Applicant Requested Facility-wide Emissions Cap to escape PSD review.]

**Test Methods and Procedures**

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**Recordkeeping Requirements:**

**A.4.** Compliance with A.3. shall be determined by recording the following data for each material used that contains VOC.

Quantity	
• Gallons of Clean-up Solvent Used	• Gallons of Coating Used in Spray Guns
Emissions Factors	
• Density of Material (Pounds per Gallon)	• Constituent Factor (Percentage by Weight) • Any Other Factor Necessary to Determine Emissions Into Air
Emissions	
• Total Cumulative Emissions (Determined from a Monthly Rolling Average of VOC Emissions)	

[FINAL Title V Permit No. 0070016-002-AV; Construction Permit No. 0070016-004-AC]

**Reporting Requirements:**

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**

**A.5. Reporting.** A report of the data required by Condition A.4. shall be submitted to the Northeast District Office on a semi-annual basis. These reports shall be postmarked no later than the 60th day following the end of the reporting period defined below:

<u><b>Reporting Period</b></u>	<u><b>Report Due Date</b></u>
January - June	September 1
July-December	March 1*

\*The annual operating report for that calendar year may be submitted in lieu of the July-December semi-annual report.

**A.6.** Emission factors and emissions calculation methods used to determine the data required in Specific Condition No. A.5. shall be consistent with those used in the Title V permit application submitted June 17, 1996.

[FINAL Title V Permit No. 0070016-002-AV]

**Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.**