

STATE OF MISSOURI



PERMIT BOOK

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **07 2015 - 006**

Project Number: 2015-04-010
Installation Number: 207-0019

Parent Company: W.W. Wood Products, Inc.

Parent Company Address: 10000 Old Hwy 60, Dudley, MO 63936

Installation Name: W.W. Wood Products, Inc.

Installation Address: 10000 Old Hwy 60, Dudley, MO 63936

Location Information: Stoddard County, S21, T25N, R9E

Application for Authority to Construct was made for:

2 phase permit, this being Phase II where one automatic finishing line is being added inside the existing production facility. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

JUL 10 2015

EFFECTIVE DATE

Handwritten signature of Kyrna L. Moore in cursive script.

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Department's Air Pollution Control Program of the anticipated date of start up of these air contaminant sources. The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources' regional office responsible for the area within which you are located within 15 days after the actual start up of these air contaminant sources.

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

Page No.	3
Permit No.	
Project No.	2015-04-010

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

W.W. Wood Products, Inc.
Stoddard County, S21, T25N, R9E

1. **Superseding Condition**
The conditions of this permit supersede all special conditions found in Phase I of the previously issued construction permit 032015-017 issued by the Air Pollution Control Program
2. **VOC Emission Limitation**
 - A. W.W. Wood Products, Inc. shall emit less than 40.0 tons of VOC in any consecutive 12-month period from emission points EP-B35, EP-B36, EP-B37 and non-booth captured emissions associated with these processes.
 - B. W.W. Wood Products, Inc. shall develop and use forms to demonstrate compliance with Special Condition 2.A. The forms shall contain at a minimum the following information,
 - 1) Installation name
 - 2) Installation ID
 - 3) Permit number
 - 4) Current month
 - 5) Current 12-month date range
 - 6) Emission units
 - 7) Emission unit respective coating and thinner names with current month's usage
 - 8) VOC containing materials with the VOC content obtained from the most recent Certified Product Data Sheet (CPDS) or SDS. VOC content shall not be less than the content determined in accordance with the VOC definition in 10 CSR 10-6.020 *Definitions and Common Reference Tables*
 - 9) 0.0013 tons per month of VOC emissions from the combustion of propane used to heat the ovens
 - 10) Current month's VOC emissions as calculated using 100 percent mass balance emitted
 - 11) 12-month rolling total VOC emissions

Page No.	4
Permit No.	
Project No.	2015-04-010

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- 12) Indication of compliance status with Special Condition 2.A.
3. **Capture Device Requirement – Booth**

W.W. Wood Products, Inc. shall capture emissions from surface coating using booths (EP-B35 and EP-B36) with not more than 1 inlet face opening (e.g. 3-sided or totally enclosed booth).

 - A. All coatings shall be applied inside the booth and sprayed in a direction away from the inlet face opening.
 - B. The inlet face opening shall be equipped with a visual indicator, such as streamers, that show air flow into the booth whenever surface coating is applied.
 - C. Inward air velocity shall be maintained at least 100 fpm at all points across the inlet face opening.
 - 1) Air velocity shall be monitored and recorded at initial startup.
 - 2) Air velocity shall be monitored and recorded once per calendar quarter following initial startup.
 - 3) Each monitoring event shall be conducted immediately prior to filter replacement and with substrate located inside the booth.
 - D. W.W. Wood Products, Inc. shall maintain an operating and maintenance log for the booths which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
 4. **Capture Device Requirement – Finishing Line Chamber**

W.W. Wood Products, Inc. shall capture emissions from surface coating using an enclosed chamber (EP-B37).
 5. **Control Device Requirement – Booth Exhaust Filters**
 - A. W.W. Wood Products, Inc. shall control emissions from each spray gun using booth exhaust filters (EP-B35 and EP-B36) rated for at least 99.0 percent overspray removal efficiency as specified in the permit application.
 - B. The filters shall be operated and maintained in accordance with the manufacturer's specifications. The filters shall be equipped with a gauge or meter, which indicates the pressure drop across the control device.

Page No.	5
Permit No.	
Project No.	2015-04-010

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

These gauges or meters shall be located such that Department of Natural Resources' employees may easily observe them.

- C. Replacement filters shall be kept on hand at all times. The filters shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
 - D. W.W. Wood Products, Inc. shall monitor and record the operating pressure drop across the filters at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
 - E. W.W. Wood Products, Inc. shall maintain a copy of the filter manufacturer's performance warranty on site.
 - F. W.W. Wood Products, Inc. shall maintain an operating and maintenance log for the filters which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
6. Control Device Requirement – Finishing Line Exhaust Filters
- A. W.W. Wood Products, Inc. shall control emissions from each spray gun using a poly diffusion media exhaust filter (EP-B37) rated for at least 99.0 percent removal efficiency as specified in the permit application.
 - B. The filters shall be operated and maintained in accordance with the manufacturer's specifications.
 - C. Replacement filters shall be kept on hand at all times. The filters shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
 - D. W.W. Wood Products, Inc. shall monitor and record the operating pressure drop across the filters at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

Page No.	6
Permit No.	
Project No.	2015-04-010

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- E. W.W. Wood Products, Inc. shall maintain a copy of the filter manufacturer's performance warranty on site.
- F. W.W. Wood Products, Inc. shall maintain an operating and maintenance log for the filters which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
- 7. Operational Requirement
W.W. Wood Products, Inc. shall operate no more than two spray guns at a time inside each booth (EP-B35 and EP-B36).
- 8. Operational Requirement – Coatings / Thinners
W.W. Wood Products, Inc. shall keep all coatings and thinners in closed containers whenever the materials are not in use. W.W. Wood Products, Inc. shall provide and maintain suitable, easily read, permanent markings on coating and thinner containers used with this equipment.
- 9. Record Keeping and Reporting Requirements
 - A. W.W. Wood Products, Inc. shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include CPDS for all materials used, or SDS if a CPDS is not available.
 - B. W.W. Wood Products, Inc. shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW

Project Number: 2015-04-010
Installation ID Number: 207-0019
Permit Number:

W.W. Wood Products, Inc.
10000 Old Hwy 60
Dudley, MO 63936

Complete Date
of Application: May 15, 2015

Parent Company:
W.W. Wood Products, Inc.
10000 Old Hwy 60
Dudley, MO 63936

Stoddard County, S21, T25N, R9E

REVIEW SUMMARY

- W. W. Wood Products, Inc. has applied for authority to construct an automatic finishing line, EP-B37, as part of Phase II.
- Hazardous air pollutants (HAP) emissions are expected from the paints and primers used by the equipment, as provided in Table 2
- None of the New Source Performance Standards (NSPS) apply to the project.
- None of the NESHAPs apply to this project. The Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart JJ, National Emission Standards for Wood Furniture Manufacturing Operations applies to this project
- One finishing line equipped with exhaust filters are being used to control the PM, PM₁₀, and PM_{2.5} emissions.
- This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential HAP emissions are above the de minimis level. A major HAP review is not required since the emission units are subject to MACT JJ. Potential VOC emissions are limited to the de minimis level.
- This installation is located in Stoddard County, an attainment area for all criteria pollutants.
- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

- Ambient air quality modeling was not performed for this review. Although potential HAP emissions exceed the de minimis level (major source level), modeling was not performed. The HAP emissions emit from emission units subject to MACT JJ. EPA completed this MACT's risk and technology review (RTR). Therefore, the Air Pollution Control Program did not conduct additional risk assessment modeling.
- Emissions testing is not required for the equipment.
- Submittal of an application to amend the part 70 operating permit is required for this installation within 1 year of equipment startup.
- Approval of this permit is recommended with special conditions

INSTALLATION DESCRIPTION

W.W. Wood Products, Inc. manufactures wooden kitchen and bath cabinetry. The installation consists of several buildings located on different streets in Dudley. The installation is a major VOC and HAP source and holds a part 70 operating permit. The following New Source Review permits have been issued to W.W. Wood Products, Inc. from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
032015-017	2015-01-023: Section (6) Permit. Phase 1 for spray application of surface coating to wooden cabinet parts
102012-015A	2014-04-065: Alternative coatings.
	2014-01-031: Applicability determination, permit required. Alternative coatings.
	2013-10-045: Part 70 Operating Permit minor modification. Not yet issued.
102012-015	2012-08-012: Add 2 finishing lines.
	2011-03-043: Interprogram coordination task, resource recovery.
012006-010B	2011-02-038: Permit amendment. Operating hours.
	2009-04-048: No Permit Required. Cyclones and fans.
	2008-11-056: Interprogram coordination task, resource recovery.
	2008-02-088: No Permit Required. Plywood panel processing.
	2008-02-089: Permit application withdrawn by applicant. Planers and saws.
	2007-08-061: Applicability determination, permit required. Saws and grinders.
012006-010A	2007-05-116: Permit amendment. RTO changes.
	2007-02-066: No Permit Required. Solvent recovery.
	2007-01-066: Interprogram coordination task, resource recovery.
	2006-09-028: No Permit Required. Emission point numbering.
	2006-06-105: Applicability determination for throughput tracking, closed out.
	2006-04-030: No Permit Required. New planer and molder.
	2006-04-016: Applicability determination for heating, closed out.
012006-010	2005-11-048: Section (5) Permit. Addition of 2 automatic flat-line, sealcoat/topcoat and finish drying systems, 1 regenerative thermal oxidizer, and 9 spray booths and permission for continued operation of the Air Curtain Destructor.
	2005-08-055: No Permit Required. Heating.
062005-007	2005-02-104: Section (5) Permit. Addition of an automatic flat-line, sealcoat/topcoat application and finish drying system in the Shiloh Custom Cabinetry Division.
OP2011-023	2004-12-001: Part 70 Operating Permit renewal.

Permit Number	Description
012005-006	2004-10-015: Section (5) Permit. Addition of two spray booths in the Shiloh Custom Cabinetry Division.
112004-007	2004-09-001: Section (5) Permit. Addition of one spray booth to Sequoia Division.
092004-015	2004-07-070: A Section (6) permit issued for the addition of an automatic flat-line, sealcoat/topcoat application and finish drying system in the Shiloh Custom Cabinetry Division.
	2004-04-074: No Permit Required. Added capacity.
	2002-04-096: Applicability determination, permit required. Replacement of spray booths.
	2001-10-045: No Permit Required. Dust collection systems.
102001-002	2001-07-021: A Section (5) permit issued for the addition of a new wood waste grinder.
	2001-05-077: Applicability determination, permit required for new wood waste boiler.
	2001-05-010: No Permit Required. Saws and shapers.
102001-008	2001-05-009: A Section (5) permit issued for the addition of 6 new spray booths and 2 new propane space heaters.
	2001-04-064: Significant modification to Part 70 Operating Permit.
	2001-01-026: No Permit Required. Cabinet making.
	2000-06-081: Scrap wood incinerator. Project closed out for lack of activity.
	2000-05-114: No Permit Required. Expand facility.
	2000-04-060: No Permit Required. Ripsaws, planers, molders.
0499-009	1999-02-070: A Section (5) permit issued for 1 new De Vilbis lacquer spray booth.
OP2000-054	1998-01-068: Part 70 Operating Permit.
0898-015	1998-03-103: A Section (6) permit issued for the addition of 5 new paint booths.
	1998-03-070: No Permit Required. Construction of a warehouse.
0698-019	1998-02-0228: A Section (5) permit issued to convert the existing House Door Shop into the Savannah Cabinetry operation.
	207-0019-008: No Permit Required. Modification to EP-3 & EP-4.
	4600-0019-007: Cyclone & blower replacement.
1093-012	4600-0019-006: A Section (6) permit issued to move an existing Kitchen Cabinet shop to a new building.
0792-004	4600-0019-005: A Section (5) permit issued to add a wood waste fired boiler and storage system.

PROJECT DESCRIPTION

This project is the completion of W.W. Wood Products, Inc. two phase permit. This project addresses the potential emissions from Phase I and Phase II. Emissions from both Phase I and Phase II are evaluated together for permit applicability.

Permit Number 032015-017 allowed W.W. Wood Products, Inc. to construct new surface coating emission units in the building near the intersection of old Highway 60 and Filley Street. That was phase one of this two phase permit. The permit applicability of phase one is being combined with the installation of an automatic finishing line. A phased permit was chosen to avoid the possibility of PSD circumvention.

W. W. Wood Products, Inc. has applied for authority to construct an automatic finishing line (EP-B37) inside the existing production facility. The finishing line is designed for water base and solvent based coatings. Cabinet parts are first loaded onto the feed

conveyor where they enter the finish material application chamber. The finishing material is applied by eight automatic spray guns. The cabinet parts are then conveyed to and through the drying system which is composed of two chambers, an ambient air and an infra-red. Dried parts are then conveyed out on the catch conveyor to be put into the cabinet assembly process

The ovens are heated using a hot water heat exchanger, which is a 2015 Venjakob Automatic Werk Berlin/CM2 186. Water is heated and ran through pipes and the heat radiates from the pipes heating the ovens. All ovens are supplied using the same boiler. Liquid propane is used to heat the boiler and the maximum design rate is 0.643 million Btu/hr. Particulate emissions are controlled by a poly diffusion media air filter that is 99% efficient for PM and PM₁₀. The manufacturer does not provide removal efficiency for PM_{2.5}. The ovens are emitted at the same point as the spray chamber (EP-B37).

The spray guns are part of a Venjakob Perfect 2015 machine. The tips are rated at 3.28 gals/hr per gun. The guns are automatic. The spray gun tip flowrate was selected as the MHDR. This is the most conservative MHDR method.

W. W. Wood Products, Inc. is requesting permission to use thirteen (13) paints and primers on the line. After this project, W. W. Wood Products, Inc. will be permitted to use any combination of paints and primers from the following table on these lines. However, the 40.0 tpy VOC limit and the MACT's RTR allow usage of other paints and primers than those submitted with the permit application.

Table 2: Paints and Primers Requested on Finishing Lines EP-B37

Product Name	Product Number
Bernyl Unisurfacer	DF5354001
Amerivar CC 35 Gloss	DM5367035
Sher-wood 225150 BA SEAL	T60F60001
Sher-wood Kemvar 9230S, WW 20 Gloss	V84F90020
Matador WW Eggshell	S13W62363
Sher-wood Vinyl Sealer 24% Solids, Clear	T67F3
Sher-wood Water White Conversion Varnish	V84FL39
Sherwood Primer WW, Linen	E63W50055
Sherwood Primer WW, Dover	E63W50054
Sherwood Kemvar 8420S Conversion Varnish WW, LX. Arctic	H66W80157
Sherwood Kemvar 8420S Conversion Varnish WW, LX. Polar	H66W80158
Sherwood Kemvar 8420S Conversion Varnish WW, LX Soft	H66W80159
Sherwood Primer WW, Tundra	E63W50053

EMISSIONS/CONTROLS EVALUATION

Emissions from the automatic finishing line (EP-B37) were calculated using the maximum paint/primer usage and MSDS supplied by W. W. Wood Products, Inc. The coating transfer rate and filter capture efficiency for the finishing line was also provided by W. W. Wood Products, Inc. The coating transfer efficiency is 60 percent and the filter capture efficiency is 99 percent for PM and PM₁₀. The media was assigned 95 percent PM_{2.5} control efficiency. All available VOCs and HAPs were considered to be emitted.

Potential emissions from the paint/primer were calculated using mass balance. The potential emissions are the highest per pollutant regardless of the paint/primer type, which represents the most conservative method. The potential emissions of any paint/primer in the permit application, if sprayed at potential usage, would exceed the VOC de minimis level. The highest PM potential emissions are from primer dorian grey. The highest combined HAPs potential emissions are from vinyl sealer smoke toner. The highest individual HAP potential emissions vary from smoke toner, smoke wipe, sedona wipe, wood chocolate and Matador WW Eggshell.

The MHDR of the line was determined by using the flow rate of the automatic spray tips and the number of spray tips. The line has 8 spray guns and each one sprays at 7 fluid ounces per minute. Therefore, the MHDR of the line was determined to be 56 fluid ounces per minute or 26.25 gallons per hour.

The density and weight percent of VOC for each paint or primer was taken from the MSDS. The VOC unconditioned potential emissions of both lines was determined by multiplying the MHDR by this density and weight. The same procedure was used to determine the unconditioned potential emissions of each individual HAP emitted.

The emission factors for the combustion of propane were obtained from the Environmental Protection Agency (EPA) document AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 1.5, Liquefied Petroleum Gas Combustion (10/96).

Previous finishing line permits for this installation have included alternative coating special conditions and recordkeeping. However, that approach is not needed for this permit. The 40.0 tpy VOC limit and the MACT's RTR allow usage of coatings other than those submitted with the permit application.

The following table provides an emissions summary for this project. Existing potential emissions were obtained from permit 102012-015A. Existing actual emissions were obtained from the installation's 2014 EIQ. Potential Emissions of the Project represent the potential emissions of Phase I and Phase II. Potential emissions of Phase II represent the potential of the new equipment submitted as part of Phase II. Potential emissions of the Phase I represent the potential of the equipment installed as part of Phase I. All potential emissions assume continuous operation (8,760 hours per year).

Table 2: Emissions Summary (tpy)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2014 EIQ)	Unconditioned Phase I Potential Emissions	Unconditioned Phase II Potential Emissions	Unconditioned Project (Phase I and II) Potential Emissions	Conditioned Project (Phase I and Phase II) Potential Emissions
PM	25.0	N/D	N/D	24.98	3.27	28.25	0.87
PM ₁₀	15.0	82.78	9.66	24.98	3.28	28.26	0.87
PM _{2.5}	10.0	N/D	8.16	24.98	16.32	41.30	1.28
SOx	40.0	0.52	0.02	N/A	0.046	0.046	N/A
NOx	40.0	14.8	3.64	N/A	0.40	0.40	N/A
VOC	40.0	461.5	166.87	651.85	642.4	1294.25	< 40
CO	100.0	20.02	0.67	N/A	0.23	0.23	N/A
GHG (CO ₂ e)	75,000	N/D	N/D	N/A	N/A	N/A	N/A
GHG (mass)	0.0 / 100.0	N/D	N/D	N/A	N/A	N/A	N/A
Combined HAPs	25.0	N/D	N/D	308.66	196.3	504.96	15.61
Ethylbenzene	10.0	N/D	N/D	27.44	27.39	54.83	1.69
Xylene (mixed)	10.0	N/D	N/D	171.48	164.5	336.01	10.38
Cumene	10.0	N/D	N/D	14.29	N/A	14.29	0.44
Naphthalene	10.0	N/D	N/D	5.18	4.6	9.74	0.30
Toluene	10.0	N/D	N/D	109.75	98.0	207.77	6.42
Cr III compound	¹ 5.0	N/D	N/D	0.70	N/A	0.70	0.02
MIBK	10.0	N/D	N/D	0.62	N/A	0.62	0.02
Methanol	10.0	N/D	N/D	0.62	N/A	0.62	0.02
Formaldehyde	2.0	N/D	N/D	N/A	1.18	1.18	0.04

N/A = Not Applicable; N/D = Not Determined

¹ = SMAL

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential HAP emissions of are above de minimis levels. Potential VOC emissions are limited to the de minimis level.

APPLICABLE REQUIREMENTS

W.W. Wood Products, Inc. shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, please consult your operating permit.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
- *Operating Permits*, 10 CSR 10-6.065
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

- *Restriction of Emission of Particulate Matter From Industrial Processes* 10 CSR 10-6.400
- *MACT Regulations*, 10 CSR 10-6.075
 - *National Emission Standards for Wood Furniture Manufacturing Operations*, 40 CFR Part 63, Subpart JJ

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

Chad Stephenson
New Source Review Unit

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated March 30, 2015, received April 3, 2015, designating W.W. Wood Products, Inc. as the owner and operator of the installation.

APPENDIX A

Abbreviations and Acronyms

%	percent	m/s	meters per second
°F	degrees Fahrenheit	Mgal	1,000 gallons
acfm	actual cubic feet per minute	MW	megawatt
BACT	Best Available Control Technology	MHDR	maximum hourly design rate
BMPs	Best Management Practices	MMBtu	Million British thermal units
Btu	British thermal unit	MMCF	million cubic feet
CAM	Compliance Assurance Monitoring	MSDS	Material Safety Data Sheet
CAS	Chemical Abstracts Service	NAAQS ...	National Ambient Air Quality Standards
CEMS	Continuous Emission Monitor System	NESHAPs	National Emissions Standards for Hazardous Air Pollutants
CFR	Code of Federal Regulations	NO_x	nitrogen oxides
CO	carbon monoxide	NSPS	New Source Performance Standards
CO₂	carbon dioxide	NSR	New Source Review
CO_{2e}	carbon dioxide equivalent	PM	particulate matter
COMS	Continuous Opacity Monitoring System	PM_{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter
CSR	Code of State Regulations	PM₁₀	particulate matter less than 10 microns in aerodynamic diameter
dscf	dry standard cubic feet	ppm	parts per million
EQ	Emission Inventory Questionnaire	PSD	Prevention of Significant Deterioration
EP	Emission Point	PTE	potential to emit
EPA	Environmental Protection Agency	RACT	Reasonable Available Control Technology
EU	Emission Unit	RAL	Risk Assessment Level
fps	feet per second	SCC	Source Classification Code
ft	feet	scfm	standard cubic feet per minute
GACT	Generally Available Control Technology	SDS	Safety Data Sheet
GHG	Greenhouse Gas	SIC	Standard Industrial Classification
gpm	gallons per minute	SIP	State Implementation Plan
gr	grains	SMAL	Screening Model Action Levels
GWP	Global Warming Potential	SO_x	sulfur oxides
HAP	Hazardous Air Pollutant	SO₂	sulfur dioxide
hr	hour	tph	tons per hour
hp	horsepower	tpy	tons per year
lb	pound	VMT	vehicle miles traveled
lbs/hr	pounds per hour	VOC	Volatile Organic Compound
MACT	Maximum Achievable Control Technology		
µg/m³	micrograms per cubic meter		

Mr. Michael Yount
EHS Manager
W.W. Wood Products, Inc.
P.O. Box 50
Dudley, MO 63936

RE: New Source Review Permit - Project Number: 2015-04-010

Dear Mr. Yount:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your amended operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, Truman State Office Building, Room 640, 301 W. High Street, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.

Mr. Michael Yount
Page Two

If you have any questions regarding this permit, please do not hesitate to contact Chad Stephenson at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp
New Source Review Unit Chief

SH:csd

Enclosures

c: Southeast Regional Office
PAMS File: 2015-04-010

Permit Number: