

STATE OF MISSOURI



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: **08 2007 - 001** Project Number: 2006-10-027

Parent Company: Missouri Department of Corrections

Parent Company Address: 1717 Industrial, Jefferson City, MO 65102

Installation Name: SECC Furniture Factory/Missouri Vocational Enterprises

Installation Address: 300 Pedro Simmons Drive, Charleston, MO 63839

Location Information: Mississippi County, S17, T26N, R16E

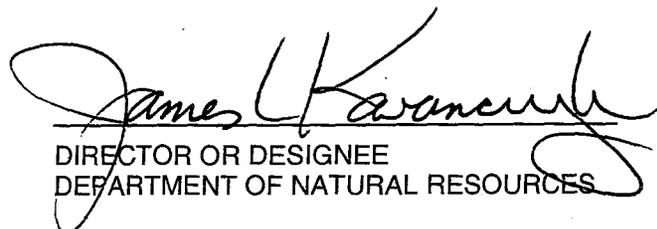
Application for Authority to Construct was made for:

The installation of wood processing equipment (saws, sanders, etc.) and a spray booth for a wood furniture factory to train offenders at the Southeast Correctional Center. 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.

AUG - 3 2007

EFFECTIVE DATE


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 this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. 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 this (these) air contaminant source(s).

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 source(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 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.

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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."

SECC Furniture Factory/Missouri Vocational Enterprises
Mississippi County, S17, T26N, R16E

1. Emission Limitations
 - A. SECC Furniture Factory/Missouri Vocational Enterprises shall emit less than 15 tons of particulate matter less than ten (10) microns in diameter (PM₁₀) in any consecutive 12 month period from the wood processing equipment (EU-1 planner, EU-02 rip saw, EU-3 belt sanders, EU-4 cutoff saws, EU-06 panel saws, EU-07 dove tailer, EU-09 wood working, EU-10 assembly).
 - B. When considering using an alternative new coating in the spray booth operations or a new glue or laminating adhesive or any new material that contains a HAP that is different than those listed in the Application for Authority to Construct. SECC Furniture Factory/Missouri Vocational Enterprises must calculate the potential emissions for each individual HAP in the alternative material that has a Screen Modeling Action Level (SMAL) as listed in Attachment C. If the potential HAP emissions for the alternative coating, glue or adhesive (HAP containing material) is equal to or greater than the 10 tons per year for each individual HAPs, or 25 tons per year for total HAPs, or if it is equal to or greater than the Screen Modeling Action Levels, then SECC Furniture Factory/Missouri Vocational Enterprises must seek approval from the Air Pollution Control Program before the use of the alternative coating.
 - C. Attachment A and Attachment B or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 1(A) and 1(B). SECC Furniture Factory/Missouri Vocational Enterprises shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Department of Natural Resources' personnel upon request. These records shall include Material Safety Data Sheets for all materials used in this equipment.
 - D. SECC Furniture Factory/Missouri Vocational Enterprises shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176,

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SPECIAL CONDITIONS:

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

Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records from Special Condition Number 1(C) indicate that the source exceeds the limitation of Special Conditions Number 1(A) and 1(B).

2. Control Devices

- A. SECC Furniture Factory/Missouri Vocational Enterprises shall control emissions from the equipment listed in Table Two (2) using baghouses, portable dust collectors and a dry filter in the spray booth as specified in the permit application. The baghouse, portable dust collectors, and the dry filter shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse and the dry filter shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. The portable dust collectors are not required to have a gauge. These gauges or meters shall be located such that the Department of Natural Resources' employees may easily observe them. Replacement filters for the baghouses, portable dust collectors and dry filter shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
- B. SECC Furniture Factory/Missouri Vocational Enterprises shall monitor and record the operating pressure drop across the baghouse and the dry filter dust collectors at least once every 24 hours, when in operation. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty. The portable dust collectors are to be emptied daily, when in operation.
- C. SECC Furniture Factory/Missouri Vocational Enterprises shall maintain an operating and maintenance log for the baghouse, portable dust collectors, and the dry filter venting system 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.
 - 3) A record of the date and time the portable dust collectors was emptied is to be maintained.

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SPECIAL CONDITIONS:

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

3. Solvent/Clean up and Application Cloths
SECC Furniture Factory/Missouri Vocational Enterprises shall keep the paints, varnish, stains, glues, adhesives and cleaning solution containers in sealed containers whenever the materials are not in use. SECC Furniture Factory/Missouri Vocational Enterprises shall provide and maintain suitable, easily read, permanent markings on all paints, varnish, stains, glues, adhesives and cleaning solution containers used with this equipment.

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

Project Number: 2006-10-027
Installation ID Number: 133-0023
Permit Number:

SECC Furniture Factory/Missouri Vocational Enterprises Complete: 01/18/2007
300 Pedro Simmons Drive Reviewed: 06/01/2007
Charleston, MO 63839

Parent Company:
Missouri Department of Corrections
1717 Industrial
Jefferson City, MO 65102

Mississippi County, S17, T26N, R16E

REVIEW SUMMARY

- SECC Furniture Factory/Missouri Vocational Enterprises has applied for authority to construct a wood furniture factory in the Southeast Correctional Center.
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment. HAPs of concern from this process are Toluene (CAS 108-88-3), Ethylenbenzene (CAS 100-41-4), Xylene (CAS 1330-20-7), Methanol (67-56-1), and Glycol Ethers (CAS 20-10-0).
- None of the New Source Performance Standards apply to the proposed equipment.
- None of the National Emission Standards for Hazardous Air Pollutants or currently promulgated Maximum Achievable Control Technology regulations apply to the proposed equipment. Subpart JJ, *National Emission Standards for Wood Furniture Manufacturing Operations* and Subpart MMMM, *National Emissions Standards for Hazardous Air pollutants for Surface Coating of Miscellaneous Metal Parts and Products* do not apply as the installation is not a major source for HAPs.
- A baghouse, six (6) portable dust collectors and a dry filter in the spray booth are being used to control the PM₁₀ emissions from the equipment in this permit.
- This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of PM₁₀ are conditioned to below de minimis levels. VOC emissions are above de minimis levels.
- This installation is located in Mississippi County, an attainment area for all criteria air pollutants.

- This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2].
- Ambient air quality modeling was not performed for this review. No model is currently available which can accurately predict ambient ozone concentrations caused by this installation's VOC emissions.
- Emissions testing is not required for the equipment.
- A Basic Operating Permit application is required for this installation within 30 days of equipment startup.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

SECC Furniture Factory/Missouri Vocational Enterprises will produce wood furniture inside of the Missouri Department Of Corrections Southeast Correctional Center at Charleston Missouri in Mississippi County. The major process performed at the installation include laminating, sawing, banding, wrapping, molding, routing, drilling, sanding, glueing, spraying and coating with lacquers and stains, and packaging of final wood products.

The site has chosen limits that will make them a de minimus source for PM₁₀. This will remain a basic source under operating permits.

The following permits have been issued to SECC Furniture Factory/Missouri Vocational Enterprises from the Air Pollution Control Program.

Table One: Permitting actions at installation identification number (133-0023).

Permit Number	Description
02001-015	Boilers and Generators
OP	Basic Operating Permit

PROJECT DESCRIPTION

Equipment installed will be various woodworking equipment (saws, sanders, etc.) and a spray booth. Control devices such as dry filters, Arrest All AR-75 Dust Collector and portable dust collectors are to be employed in the plant. Portable dust collectors are distributed to the as needed equipment. Six of these units are to be available for distribution to the following processes EU-4 Cut Off Saws, EU-7 Dove Tailer, and EU-10 Assembly. In addition, several hand tools such as portable sanders, grinders, drill, and saws and other similar hand held tools are to have their particulate emission controlled by the use of the six portable dust collectors.

Table 2: Control Device connected to the Emission Unit.

Emission Unit	Control Device	Control Device Code
EU-1 Planner	Arrest All AR-75 Dust Collector	CD-1
EU-2 Rip Saw	Arrest All AR-75 Dust Collector	CD-1
EU-3 Wide Belt Sanders	Arrest All AR-75 Dust Collector	CD-1
EU-4 Cut off saws	Portable Dust Collector	CD-3,4,5,6,7,8
EU-5 Glue Rack	No Control Device	N/A
EU-6 Panel Saws	Arrest All AR-75 Dust Collector	CD-1
EU-7 Dove Tailer	Portable Dust Collector	CD-3,4,5,6,7,8
EU-8 HPL (lamination)	No Control Device	N/A
EU-9 Wood working	Arrest All AR-75 Dust Collector and Portable Dust Collector	CD-1 and Portable Dust Collector
EU-10 Assembly	Portable Dust Collector	CD-3,4,5,6,7,8
EU-11 Stain	No Control Device	N/A
EU-12 Spray booth	Dry filter	CD -2

* Control Device CD-3, 4, 5, 6, 7, 8 are portable dust collectors.

The following equipment parameters were used as the bases for the emission calculations. The application rate was based on past usage in a controlled environment as submitted in the application.

Table 3 Material, Application Method and Application Rate of VOC Sources.

Material Type	Application Method	Rate (Gallons/Hour)
Wood Glue	Brushed	0.27
Thinner	Wiped on	0.25
Stain	Wiped on	0.25
Glue	Rolled on	0.14
Paint	Sprayed on	0.41
Lacquer	Sprayed on	0.56

The VOC application rate is based on a similar facility 2004 experience with the material. The HAP application rate is based on similar consumption activity in 2004, at a similar operation with 330 gallons per year consumed when operating a 7-hour day, a 4-day week and 50 weeks per year. This calculates to a HAP application rate of 0.2357 gallons per hour. To calculate the Potential To Emit (PTE) the hourly rate was multiplied by 8760 hours per year and the weight percent HAP contained in the lacquer.

A 99 percent removal efficiency was assumed when calculating the portable dust collectors, the dry filter in the paint booth and for CD-1, the baghouse dust collector.

A 90 percent collection efficiency was assumed for the portable dust collectors. A 100 percent collection was assumed for the CD-1, the baghouse collector and the dry filter in the pain booth.

An emission factor of 0.02 pounds per ton of material (lumber) processed was submitted by the installation for PM₁₀ emissions based on past operating experience and engineering judgement. Wood processing emission factors are typically defined as pounds of PM₁₀ emitted per board foot of lumber processed, such as a log sawed in a saw mill. Because of the absence of emission factors for wood processing in the literature, developing emission factors specific for the operation steps would be worthwhile. The wood emission factors 0.02 pounds per ton of material (lumber) processed submitted by the applicant can be adjusted based on processing information when the plant is running. The maximum rate of 0.18 tons hour of material processed was used to calculate the maximum hourly design rate (MHDR) of the wood processing equipment. A value of 20 percent solids was used to calculate the PM₁₀ emissions of the spray booth. A transfer efficiency of 50 percent was used in the calculations.

This installation because of the added security features required being a prison will not operate 8760 hours per year. The installation plans are to operate a 7-hour day, 4-day week, and a 50-week year.

EMISSIONS/CONTROLS EVALUATION

The emission factors and control efficiencies used in this analysis were obtained from mass balance, previous plant operation at other site, measurement of waste wood generated and engineering judgement. Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year.) The following table provides an emissions summary for this project.

Table Four: Emissions Summary (tons per year).

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions*	Existing Actual Emissions (2006 EIQ)	Potential Emissions of the Application	New Installation Conditioned Potential
PM ₁₀	15.0	2.64	0.20	15.14	<15.0
SO _x	40.0	6.98	0.18	N/A	N/A
NO _x	40.0	54.66	2.88	N/A	N/A
VOC	40.0	3.81	0.27	42.47	N/A
CO	100.0	28.60	2.24	N/A	N/A
HAPs	10.0/25.0	0.58	0.0	10.35	N/A

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

* Existing Potential Emissions Taken from permit 022001-015 with project number 2000-11-008

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 emissions of PM₁₀ are conditioned to below de minimis levels. Potential emission of VOCs are above de minimis levels.

APPLICABLE REQUIREMENTS

SECC Furniture Factory/Missouri Vocational Enterprises 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
The emission fee is the amount established by the Missouri Air Conservation Commission annually under Missouri Air Law 643.079(1). Submission of an Emissions Inventory Questionnaire (EIQ) is required April 1 for the previous year's emissions.
- *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 10-3.090

SPECIFIC REQUIREMENTS

- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400

AMBIENT AIR QUALITY IMPACT ANALYSIS

Ambient air quality modeling was not performed for this review. No model is currently available which can accurately predict ambient ozone concentrations caused by this installation's VOC emissions.

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.

Timothy Paul Hines
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated March 09, 2006, received October 04, 2006, designating Missouri Department of Corrections as the owner and operator of the installation.
- Revised application for Authority to Construct forms received April 03, 2007.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Southeast Regional Office Site Survey, dated February 07, 2007.

Attachment A: Monthly PM₁₀ Tracking Record

SECC Furniture Factory/Missouri Vocational Enterprises

Mississippi County, S17, T26N, R16E

Project Number: 2006-10-027

Installation ID Number:133-0023

Permit Number:

This sheet covers the month of _____ in the year _____.

Copy this sheet as needed

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
PM₁₀ Emissions from Spray booth					
Material Used (Name)	Amount of Material Used (gallons)	Density (Pounds per Gallon)	Solids Content (Weight %)	Collection Removal & Transfer Efficiency	PM ₁₀ Emissions (Tons) (a)
				0.005	
				0.005	
				0.005	
				0.005	
				0.005	
(b) Total PM ₁₀ Emissions from spray booth Calculated for this Month in Tons:					
PM₁₀ Emissions from wood processing					
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Equipment	Amount of Material Processed (tons)	Emission Factor (lbs. PM ₁₀ / ton of material processed)	Collection Removal Efficiency	PM ₁₀ Emissions (Tons) (c)	
Planner (EU-01)		0.02	0.01		
Rib Saw (EU-02)		0.02	0.01		
Belt Sanders (EU-03)		0.02	0.01		
Cut Off Saws (EU-4)		0.02	0.01		
Panel saws(EU-6)		0.02	0.01		
Wood Working (EU-09)		0.02	0.01		
Assembly (EU-10)		0.02	0.01		
(d) Total PM ₁₀ Emissions from wood processing calculated for this Month in Tons:					
(e) Total PM ₁₀ Emissions from Calculated for this Month in Tons:					
(f) 12-Month PM ₁₀ Emissions Total from Previous Months Attachment A in Tons:					
(g): 12-Month PM ₁₀ emissions from last month's Attachment A, in Tons					
(h) Current 12-month Total of PM ₁₀ Emissions in Tons: [(g) - (f) + (e)]					

INSTRUCTIONS:

(a) [Column 1] x {Column 2} x [Column 3] x [Column 4] x [Column 5] x [0.0005] = [Column 6]

(b) Summation of [Column 6] for Spray Booth in Tons;

(c) [Column 1] x, [Column 2] x Column 3] x [Column 4] x [0.0005] = [Column 5];

(d) Summation of [Column 5] for wood processing in Tons;

(e) Summation of b and d; Total PM₁₀ Emissions Calculated for this Month in Tons:

(f) 12-Month PM₁₀ Emissions Total from Previous Years Month Attachment A in Tons

(g) 12-Month PM₁₀ emissions from last month's Attachment A, in Tons **A 12-Month PM₁₀ emissions total (h) of less than 15.0 tons indicates compliance.**

Attachment C: Screen Modeling Action Levels

Chemical	CAS#	Emission Threshold Levels (tons/year)	Synonyms
I. Acetaldehyde	75-07-0	9	Acetic Aldehyde, Aldehyde, Ethanal, Ethyl Aldehyde
Acetamide	60-35-5	1	Acetic Acid Amide, Ethanamide
Acetonitrile	75-05-8	4	Methyl Cyanide, Ethanenitrile, Cyanomethane
Acetophenone	98-86-2	1	Acetylbenzene, Methyl Phenyl Ketone, Hypnone
Acetylaminofluorene, [2-]	53-96-3	0.005	N-2-Fluorenyl Acetamide, N-Fluorene-2-yl Acetamide, 2-Acetamidefluorene
Acrolein	107-02-8	0.04	Acrylaldehyde, Acrylic Aldehyde, Allyl Aldehyde, Propenal
Acrylamide	79-06-1	0.02	Propenamide, Acrylic Amide, Acrylamide Monomer, Ethylenecarboxamide
Acrylic Acid	79-10-7	0.6	Propenoic Acid, Ethylene Carboxylic Acid, Vinylformic Acid
Acrylonitrile	107-13-1	0.3	Vinyl Cyanide, Cyanoethylene, Propenenitrile
Allyl Chloride	107-05-1	1	1-Chloro-2-Propene, 3-Chloropropylene, Chloroallylene, Alpha-Propylene
Aminobiphenyl, [4-]	92-67-1	1	Biphenylene, P -Phenylaniline, Xenylamine, 4-Aminodiphenyl, 4-Biphenylamine
Aniline	62-53-3	1	Aminobenzene, Phenylamine, Aniline Oil, Aminophen, Arylamine
Anisidine, [Ortho-]	90-04-0	1	O-Methoxyaniline
Antimony Compounds (except those specifically listed)		5	Antimony (Pentachloride, Tribromide, Trichloride, Trifluoride)
Antimony Pentafluoride	7783-70-2	0.1	
Antimony Potassium Tartrate	28300-74-5	1	
Antimony Trioxide	1309-64-4	1	
Antimony Trisulfide	1345-04-6	0.1	
Arsenic and Inorganic Arsenic Compounds		0.005	Arsenic (Diethyl, Disulfide, Pentoxide, Trichloride, Trioxide, Trisulfide), Arsinine, Arsenous Oxide
Benz(a)Anthracene	56-55-3	0.01	
Benz(c)acridine	225-51-4	0.01	
Benzene	71-43-2	2	Benzol, Phenyl Hydride, Coal Naphtha, Phene, Benxole, Cyclohexatriene

Benzidine	92-87-5	0.0003	4,4'-Biphenyldiamine, P-Diaminodiphenyl, 4,4'-Diaminobiphenyl, Benzidine Base
A. Benzo(a)pyrene	50-32-8	0.01	
B. Benzo(b)fluoranthene	205-992	0.01	
C. Benzotrichloride	98-07-7	0.006	Benzoic Trichloride, PhenylChloroform, Trichloromethylbenzene
Benzyl Chloride	100-44-7	0.1	Alpha-Chlorotoluene, Toly Chloride
Beryllium Compounds (except Beryllium Salts)		0.008	Beryllium (Acetate, Carbonate, Chloride, Fluoride, Hydroxide, Nitrate, Oxide)
Beryllium Salts		0.00002	
Bis(Chloroethyl)Ether	111-44-4	0.06	Dichloroethyl ether, Dichloroether, Dichloroethyl Oxide, BCEE
Bis(Chloromethyl)Ether	542-88-1	0.0003	BCME, Sym-Dichloromethyl ether, Dichloromethyl Ether, Oxybis-(Chloromethane)
Butadiene, [1,3-]	106-99-0	0.07	Biethylene, Biviny, Butadiene Monomer, Divinyl Erythrene, Vinylethylene
Butylene Oxide, [1,2-]	106-88-7	1	1,2-Epoxybutane, 1-Butene Oxide, 1,2-Butene Oxide, Butylene Oxide, Ethylethylene
Cadmium Compounds		0.01	Cadmium (Dust, Fume, Acetate, Chlorate, Chloride, Fluoride, Oxide, Sulfate, Sulfide)
Carbon Disulfide	75-15-0	1	Carbon Bisulfide, Dithiocarbonic Anhydride
Carbon Tetrachloride	56-23-5	1	Tetrachloromethane, Perchloromethane
Carbonyl Sulfide	463-58-1	5	Carbon Oxide Sulfide, Carbonoxysulfide
Catechol	120-80-9	5	Pyrocatechol, O-Dihydroxybenzene
Chloramben	133-90-4	1	3-Amino-2,5-Dichlorobenzoic Acid, Amben, Amiben*, Vegiben* (*Trademark)
Chlordane	57-74-9	0.01	ENT9932, Octachlor
Chlorine	7782-50-5	0.1	Bertholite
Chloroacetic Acid	79-11-8	0.1	Monochloroacetic Acid, Chloroethanoic Acid
Chloroacetophenone, [2-]	532-27-4	0.06	Phenacyl Chloride, Chloromethyl Phenyl Ketone, Tear Gas, Mace
Chlorobenzilate	510-15-6	0.4	Ethyl-4,4'-Dichlorobenzilate, Ethyl-4,4'-Dichlorophenyl Glycollate
Chloroform	67-66-3	0.9	Trichloromethane
Chloromethyl Methyl Ether	107-30-2	0.1	CMME, Methyl Chloromethyl Ether, Chloromethoxymethane, Monochloromethyl Ether
Chloroprene	126-99-8	1	2-Chloro-1,3-Butadiene, Chlorobutadiene, Neoprene Rubber Compound

Chromic Chloride	10025-73-7	0.1	
Chromium Compounds (except Hexavalent)		5	Chromium, Chromium(II) Compounds, Chromium (III) Compounds
Chromium Compounds, Hexavalent		0.002	Chromium (VI)
Chrysene	218-01-9	0.01	
Cobalt Carbonyl	12010-68-1	0.1	
Cobalt Metal (and compounds, except those specifically listed)		0.1	Cobalt (Bromide, Chloride, Diacetate, Formate, Nitrate, Oxide, Sulfamate)
Coke Oven Emissions	8007-45-2	0.03	Coal Tar, Coal Tar Pitch, Coal Tar Distillate
Cresol, [Meta-]	108-39-4	1	3-Cresol, M-Cresylic Acid, 1-Hydroxy-3-Methylbenzene, M-Hydroxytoluene
Cresol, [Ortho-]	95-48-7	1	2-Cresol, O-Cresylic Acid, 1-Hydroxy-2-Methylbenzene, 2-Methylphenol
Cresol, [Para-]	106-44-5	1	4-Cresol, P-Cresylic Acid, 1-Hydroxy-4-Methylbenzene, 4-Hydroxytoluene
Cresols/ Cresylic Acid (isomers and mixture)	1319-77-3	1	
Cyanide Compounds (except those specifically listed)	20-09-7	5	Cyanide (Barium, Chlorine, Free, Hydrogen, Potassium, Silver, Sodium, Zinc)
DDE (p,p'-Dichlorodiphenyl Dichloroethylene)	72-55-9	0.01	
Di(2-Ethylhexyl)Phthalate, (DEHP)	117-81-7	5	Bis(2-ethylhexyl)Phthalate, Di(2-Ethylhexyl)Phthalate, DOP, Di-Sec-Octyl Phthalate
Diaminotoluene, [2,4-]	95-80-7	0.02	2,4-Toluene Diamine, 3-Amino-Para-Toluidine, 5-Amino-Ortho-Toluidine
Diazomethane	334-88-3	1	Azimethylene, Diazirine
Dibenz(a,h)anthracene	53-70-3		
Dibenzofuran	132-64-9	5	Diphenylene Oxide
Dibenzopyrene, [1,2:7,8]	189-55-9		
Dibromo-3-Chloropropane, [1,2-]	96-12-8	0.01	DBCP
Dibromomethane, [1,2-]	106-93-4	0.1	Ethylene Dibromide, Ethylene Bromide, Sym-Dibromoethane
Dichlorobenzene, [1,4-]	106-46-7	3	1,4-Dichloro-P-DCB, 1-4-DCB, PDB, PDCB
Dichlorobenzidene, [3,3-]	91-94-1	0.2	4,4'-Diamino-3,3'-Dichlorobiphenyl, 3,3'-Dichlorobiphenyl-4,4'-Diamine, DCB

Dichloroethane, [1,1-]	75-34-3	1	Ethylidene Dichloride, 1,1-Ethylidene Dichloride, Asymmetrical Dichlorethane
Dichloroethane, [1,2-]	107-06-2	0.8	Ethylene Dichloride, Glycol Dichloride, Ethylene Chloride
Dichloroethylene, [1,1-]	75-35-4	0.4	Vinylidene Chloride, DCE, VDC
Dichloropropane, [1,2-]	78-87-5	1	Propylene Dichloride
Dichloropropene [1,3-]	542-75-6	1	1,3-Dichloropropylene, Alpha-Chlorallyl Chloride
Dichlorvos	62-73-7	0.2	DDVP, 2,2-Dichlorovinyl dimethylphosphate
Diethanolamine	11-42-2	5	Bis(2-Hydroxyethyl)Amine, 2,2'-Dihydroxydiethylamine, Di(2-Hydroxyethyl)Amine
Diethyl Sulfate	64-67-5	1	Diethyl Ester Sulfuric Acid, Ethyl Sulfate
Dimethoxybenzidine, [3,3-]	119-90-4	0.1	Fast Blue B Base, Dianisidine, O-Dianisidine
Dimethylbenz(a)anthracene, [7,12]	57-97-6	0.01	
Dimethyl Benzidine, [3,3-]	119-93-7	0.008	O-Tolidine, Dianisidine, 4,4'-Diamino-3,3'-Dimethylbiphenyl, Diaminoditoyl
Dimethyl Carbamoyl Chloride	79-44-7	0.02	DMCC, Chloroformic Acid Dimethyl Amide, Dimethyl Carbamyl Chloride
Dimethyl Formamide	68-12-2	1	DMF, Formyldimethylamine
Dimethyl Hydrazine, [1,1-]	57-14-7	0.008	Unsymmetrical Dimethylhydrazine, UDMH, Dimazine
Dimethyl Sulfate	77-78-1	0.1	Sulfuric Acid Dimethyl Ester, Methyl Sulfate
Dimethylaminoazobenzene, [4-]	60-11-7	1	N,N-Dimethyl-P-Phenylazo-Aniline, Benzeneazo Dimethylaniline
Dimethylaniline, [N,N-]	121-69-7	1	N,N-Diethyl Aniline, N,N-Dimethylphenylamine, DMA
Dinitro-O-Cresol, [4,6-] and salts	534-52-1	0.1	DNOC, 3,5-Dinitro-O-Cresol, 2-Methyl-4,6-Dinitrophenol
Dinitrophenol, [2,4-]	51-28-5	1	DNP
Dinitrotoluene, [2,4-]	121-14-2	0.02	Dinitrotoluol, DNT, 1-Methyl-2,4-Dinitrobenzene
Dioxane, [1,4-]	123-91-1	6	1,4-Diethyleneoxide, Diethylene Ether, P-Dioxane
Diphenylhydrazine, [1,2-]	122-66-7	0.09	Hydrazobenzene, N,N'-Diphenylhydrazine, N,N'-Bianiline, 1,1'-Hydrodibenzene
Diphenylmethane Diisocyanate, [4,4-]	101-68-8	0.1	Methylene Bis(Phenylisocyanate), Methylene Diphenyl Diisocyanate, MDI
Epichlorohydrin	106-89-8	2	1-Chloro-2,3-Epoxypropane, EPI, Chloropropylene Oxide, Chloromethyloxirane
Ethyl Acrylate	140-88-5	1	Ethyl Propenoate, Acrylic Acid Ethyl Ester

Ethylene Imine (Aziridine)	151-56-4	0.003	Azacyclopropane, Dimethyleneimine, Ethylenimine, Vinylamine, Azirane
Ethylene Oxide	75-21-8	0.1	1,2-Epoxyethane, Oxirane, Dimethylene Oxide, Anprolene
Ethylene Thiourea	96-45-7	0.6	2-Imidazolidinethione, ETU
Fluomine	62207-76-5	0.1	
Formaldehyde	50-00-0	2	Oxymethylene, Formic Aldehyde, Methanal, Methylene Oxide, Oxomethane
Glycol Ethers (except those specifically listed)		5	
Heptachlor	76-44-8	0.02	1,4,5,6,7,8,8A-Heptachloro-3A,4,7,7A-Tetrahydro-4,7-Methanoindiene
Hexachlorobenzene	118-74-1	0.01	Perchlorobenzene, HCB, Pentachlorophenyl Benzene, Phenyl Perchloryl
Hexachlorobutadiene	87-68-3	0.9	Perchlorobutadiene, 1,3-Hexachlorobutadiene, HCB
Hexachlorocyclopentadiene	77-47-4	0.1	HCCPD, HEX
Hexachloroethane	67-72-1	5	Perchloroethane, Carbon Hexachloride, HCE, 1,1,1,2,2,2-Hexachloroethane
Hexamethylene Diisocyanate, 1,6-	822-06-0	0.02	1,6-Diisocyanatohexane, 1,6-Hexanediol Diisocyanate
Hexamethylphosphoramide	680-31-9	0.01	Hexamethylphosphoric Triamide, HEMPA, Hexametapol, Hexamethylphosphoramide
Hydrazine	302-01-2	0.004	Methylhydrazine, Diamide, Diamine, Hydrazine Base
Hydrogen Fluoride	7664-39-3	0.1	Hydrofluoric Acid Gas, Fluorhydric Acid Gas, Anhydrous Hydrofluoric Acid
Hydrogen Selenide	7783-07-5	0.1	
Hydroquinone	123-31-9	1	Quinol, Hydroquinol, P-Diphenol, 1,4-Benzenediol, Hydrochinone, Arctivin
Indeno(1,2,3-cd)Pyrene	193-39-5	0.01	
Lead and Compounds (except those specifically listed)	20-11-1	0.01	Lead (Acetate, Arsenate, Chloride, Fluoride, Iodide, Nitrate, Sulfate, Sulfide)
Lindane [Gamma-Hexachlorocyclohexane]	58-89-9	0.01	Benzene Hexachloride – Gamma Isomer
Maleic Anhydride	108-31-6	1	2,5-Furanediene, Cis-Butenedioic Anhydride, Toxic Anhydride
Manganese and Compounds (except those specifically listed)	20-12-2	0.8	Manganese (Acetate, Chloride, Dioxide, (II)-Oxide, (III)-Oxide, (II)-Sulfate)
Mercury Compounds (except those specifically listed)	20-13-3	0.01	Mercury Compounds (Methyl-, Ethyl-, Phenyl-)
Mercury Compounds	20-13-3	0.01	Mercury (Chloride, Cyanide, (I,II)-[Bromide, Iodide, Nitrate, Sulfate], Oxide)

(Inorganic)			
Methyl Hydrazine	60-34-4	0.06	Monomethylhydrazine, Hydrozomethane, 1-Methylhydrazine
Methyl Iodide	74-88-4	1	Idomethane
Methyl Isocyanate	624-83-9	0.1	Isocyanatomethane, Isocyanic Acid, Methyl Ester
Methylcyclopentadienyl Manganese	12108-13-3	0.1	
Methylene Bis(2-Chloroaniline), [4,4-]	101-14-4	0.2	Curene, MOCA, 4,4'-Diamino-3,3'-Dichlorodiphenylmethane
Methylenedianiline, [4,4-]	101-77-9	1	4,4'-Diaminodipheylmethane, DDM, MDA, Bis(4-Aminophenyl)Methane, DAPM
Nickel Carbonyl	13463-39-3	0.1	
Nickel Compounds (except those specifically listed)		1	Nickel (Acetate, Ammonium Sulfate, Chloride, Hydroxide, Nitrate, Oxide, Sulfate)
Nickel Refinery Dust	12035-72-2	0.08	
Nickel Subsulfide		0.04	
Nitrobenzene	98-95-3	1	Nitrobenzoil, Oil of Mirbane, Oil of Bitter Almonds
Nitrobiphenyl, [4-]	92-93-3	1	4-Nitrodiphenyl, P-Nitrobiphenyl, P-Nitrophenyl, PNB
Nitrophenol, [4-]	100-02-7	5	4-Hydroxynitrobenzene, Para-Nitrophenol
Nitropropane, [2-]	79-46-9	1	Dimethylnitromethane, Sec-Nitropropane, Isonitropropane, Nitroisopropane
Nitroso-N-Methylurea, [N-]	684-93-5	0.0002	N-Methyl-N-Nitrosourea, N-Nitroso-N-Methylcarbamide
Nitrosodimethylamine, [N-]	62-75-9	0.001	Dimethylnitrosamine, DMN, DMNA
Nitrosomorpholine, [N-]	59-89-2	1	4-Nitrosomorpholine
Parathion	56-38-2	0.1	DNTP, Monothiophosphate, Diethyl-P-Nitrophenyl
PCB (Polychlorinated Biphenyls)	1336-36-3	0.009	Aroclors
Pentachloronitrobenzene	82-68-8	0.3	Quintobenzene, PCNB, Quiniozene
Pentachlorophenol	87-86-5	0.7	PCP, Penchlorol, Pentachlorophenate, 2,3,4,5,6-Pentachlorophenol
Phenol	108-95-2	0.1	Carbolic Acid, Phenic Acid, Phenylic Acid, Phenyl Hydrate, Hydroxybenzene
Phenyl Mercuric Acetate	62-38-4	0.01	
Phosgene	75-44-5	0.1	Carbonyl Chloride, Carbon Oxychloride, Carbonic Acid Dichloride
Phosphine	7803-51-2	5	Hydrogen Phosphide, Phosphoretted Hydrogen, Phosphorus Trihydride
Phosphorous (Yellow or White)	7723-14-0	0.1	

Phthalic Anhydride	85-44-9	5	Phthalic Acid Anhydride, Benzene-O-Dicarboxylic Acid Anhydride, Phthalandione
Polycyclic Organic Matter (except those specifically listed)	TP15	0.01	POM, PAH, Polyaromatic Hydrocarbons,
Potassium Cyanide	151508	0.1	
Propane Sultone, [1,3-]	1120-71-4	0.03	1,2-Oxathiolane-2,2-Dioxide, 3-Hydroxy-1-Propanesulphonic Acid Sultone
Propiolactone, [Beta-]	57-57-8	0.1	2-Oxeatanone, Propiolactone, BPL, 3-Hydroxy-B-Lactone-Propanoic Acid
Propionaldehyde	123-38-6	5	Propanal, Propyl Aldehyde, Propionic Aldehyde
Propylene Oxide	75-56-9	5	1,2-Epoxypropane, Methylethylene Oxide, Methyl Oxirane, Propene Oxide
Propyleneimine, [1,2-]	75-55-8	0.003	2-Methyl Aziridine, 2-Methylazacyclopropane, Methylethyleneimine
Quinoline	91-22-5	0.006	1-Azanaphthalene, 1-Benzazine, Benzo(B)Pyridine, Chinoleine, Leucoline
Quinone	016-51-4	5	Benzoquinone, Chinone, P-Benzoquinone, 1,4-Benzooquinone
Selenium and Compounds (except those specifically listed)	7782-49-2	0.1	Selenium (Metal, Dioxide, Disulfide, Hexafluoride, Monosulfide)
Sodium Cyanide	143339	0.1	
Sodium Selenate	13410010	0.1	
Sodium Selenite	10102018 8	0.1	
Styrene	100-42-5	1	Cinnamene, Cinnamol, Phenethylene, Phenylethylene, Vinylbenzene
Styrene Oxide	96-09-3	1	Epoxyethylbenzene, Phenylethylene Oxide, Phenyl Oxirane, Epoxystyrene
Tetrachlorodibenzo-P-Dioxin	1746-01-6	6.00E-07	
Tetrachloroethane, [1,1,2,2-]	79-34-5	0.3	Sym-Tetachloroethane, Acetylene Tetrachloride, Ethane Tetrachloride
Tetraethyl Lead	78-00-2	0.01	
Tetramethyl Lead	75-74-1	0.01	
Titanium Tetrachloride	7550-45-0	0.1	Titranium Chloride
Toluene Diisocyanate, [2,4-]	584-84-9	0.1	TDI, Tolylene Diisocyante, Diisocyanatoluene
Toluidine, [Ortho-]	95-53-4	4	Ortho-Aminotoluene, Ortho-Methylaniline, 1-Methyl-1,2-Aminobenzene
Toxaphene	8001-35-2	0.01	Chlorinated Camphene, Camphechlor, Polychlorcamphene
Trichloroethane, [1,1,2-]	79-00-5	1	Vinyl Trichloride, Beta-Trichloroethane

Trichlorophenol, [2,4,5-]	95-95-4	1	2,4,5-TCP
Trichlorophenol, [2,4,6-]	88-06-2	6	2,4,6-TCP
Trifluralin	1582-09-8	9	2,6-Dinitro-N-N-Dipropyl-4-(Trifluoromethyl)Benzeneamine
Trimethylpentane, [2,2,4-]	540-84-1	5	Isobutyltrimethylethane, Isoctane
Urethane [Ethyl Carbamate]	51-79-6	0.8	Ethyl Urethane, O-Ethylurethane, Leucothane, NSC 746, Urethan
Vinyl Acetate	108-05-4	1	Acetic Acid Vinyl Ester, Vinyl Acetate Monomer, Ethenyl Ethanoate
Vinyl Bromide	593-60-2	0.6	Bromoethylene, Bromoethene
Vinyl Chloride	75-01-4	0.2	Chloroethylene, Chloroethene, Monochloroethylene

Mr. Daniel Smith
Factory Manager II
SECC Furniture Factory/Missouri Vocational Enterprises
300 Pedro Simmons Drive
Charleston, MO 63839

RE: New Source Review Permit - Project Number: 2006-10-027

Dear Mr. Smith:

Enclosed with this letter is your permit to construct. Please study it carefully. Also, note the special conditions, if any, 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 have any questions regarding this permit, please contact Timothy Hines or me with the department's Air Pollution Control Program at P.O. Box 176, Jefferson City, MO 65102 or telephone (573) 751-4817. Thank you for your time and attention.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale
New Source Review Unit Chief

KBH: thk

Enclosure

c: Southeast Regional Office
PAMS File: 2006-10-027
Permit Number: