

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: 122009-014 Project Number: 2009-06-075

Parent Company: Missouri Vocational Enterprises Central Office

Parent Company Address: 1717 Industrial Drive, Jefferson City, MO 65109

Installation Name: Missouri Vocational Enterprises-JCCC Furniture Factory

Installation Address: 8416 No More Victims Road, Jefferson City, MO 65101

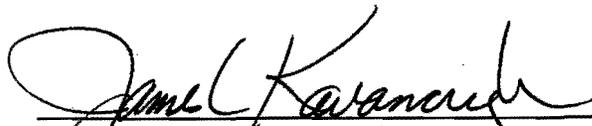
Location Information: Cole County, S20, T44N, R10W

Application for Authority to Construct was made for:
Changing from using a water based glue to petroleum based glues that contain Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) used in gluing down laminate and others adhesion needs in the manufacture of furniture. This review was conducted in accordance with Section (5), 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.

DEC 22 2009

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 Departments' 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 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.

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| Permit No. | |
| Project No. | 2009-06-075 |

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."

Missouri Vocational Enterprises-JCCC Furniture Factory
Cole County, S20, T44N, R10W

1. **Superseding Condition**
The conditions of this permit supersede Special Conditions 1.A. and 1.B. found in the previously issued construction permit number 052005-012 with project number 2004-05-113 from the Air Pollution Control Program.
2. **Emission Limitation for VOC and HAPS**
 - A. Missouri Vocational Enterprises - JCCC Furniture Factory shall emit less than 40.0 tons of Volatile Organic Compounds (VOCs) from the entire installation in any consecutive 12-month period. These limits apply to the VOC emissions from all equipment and processes installed or permitted at Missouri Vocational Enterprises - JCCC Furniture Factory as of the issuance date of this permit.
 - B. Missouri Vocational Enterprises - JCCC Furniture Factory shall emit less than ten (10.0) tons individually or twenty-five (25.0) tons combined of Hazardous Air Pollutants (HAPs) from the entire installation in any consecutive 12-month period. These limits apply to the HAP emissions from all equipment and processes installed or permitted at Missouri Vocational Enterprises - JCCC Furniture Factory as of the issuance date of this permit.
 - C. Attachments A, B and C or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 2.A. and 2.B.. Missouri Vocational Enterprises - JCCC Furniture Factory shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include Material Safety Data Sheets (MSDS) for all materials used in this equipment.
 - D. Missouri Vocational Enterprises - JCCC Furniture Factory shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the

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|-------------|-------------|
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| Permit No. | |
| Project No. | 2009-06-075 |

SPECIAL CONDITIONS:

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

month during which the records from Special Condition 2.C. indicate that the source exceeds the limitation of Special Conditions 2.A. and 2.B..

3. Use of Alternative Coating, Glues and Paints in the installation.
 - A. When considering using an alternative material in the installation that is different than a material listed in the Application for Authority to Construct, Missouri Vocational Enterprises - JCCC Furniture Factory shall calculate the potential emissions of each individual HAP in the alternative material.
 - B. Missouri Vocational Enterprises - JCCC Furniture Factory shall seek approval from the Air Pollution Control Program before use of the alternative material in the following cases:
 - i. If the potential individual HAP emissions for the alternative material is equal to or greater than the Screening Model Action Levels (SMAL) for any compound listed in Attachment E
 - C. Attachment D or an equivalent form shall be used to show compliance with Special Condition 3.A. and 3.B. Missouri Vocational Enterprises - JCCC Furniture Factory shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
4. Solvent/Clean up and Application Cloths
Missouri Vocational Enterprises-JCCC Furniture Factory shall keep the paints, varnish, stains, glues, adhesives and cleaning solution containers in sealed containers whenever the materials are not in use. Missouri Vocational Enterprises-JCCC Furniture Factory 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 (5) REVIEW

Project Number: 2009-06-075
Installation ID Number: 051-0066
Permit Number:

Missouri Vocational Enterprises-
JCCC Furniture Factory
8416 No More Victims Road
Jefferson City, MO 65101

Complete: October 15, 2009

Parent Company:
Missouri Vocational Enterprises Central Office
1717 Industrial Drive
Jefferson City, MO 65109

Cole County, S20, T44N, R10W

REVIEW SUMMARY

- Missouri Vocational Enterprises-JCCC Furniture Factory has applied for authority change from using a water based glue to petroleum based glues that contain volatile organic compounds (VOC) and hazardous air pollutant (HAPs) used in gluing down laminate and others adhesion needs in the manufacture of furniture.
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment. HAPs of concern from this process are Toluene (CAS Number 108-88-3), Methylene Chloride (CAS Number 75-09-2) and Trichloroethylene (CAS Number 79-01-06).
- Subpart Dc of the New Source Performance Standards (NSPS) , Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, applies to the four boilers at the installation: Subpart Kb , Standards of Performance for Volatile Organic Liquid Storage Vessels, applies to the large #2 fuel oil storage tank.
- 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.
- No air pollution control equipment is being used in association with the new equipment.

- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of HAPs and VOCs are below de minimis levels of less than ten tons per year and less than 25.0 tons combined HAPs and less than 40.0 tons per year of VOC.
- This installation is located in Cole 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 since potential emissions of the application are limited to below de minimis levels.
- Emissions testing is not required for the source.
- A Basic Operating Permit application is required for this installation because Subpart Dc and Kb which are NSPS applies to this installation.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Jefferson City Correctional Center has license plate manufacturing, furniture manufacturing, painting operation, textile printing line and finishing production line inside of the Missouri Department Of Corrections Jefferson City Correctional Center in Jefferson City, Missouri in Cole County. Missouri Vocational Enterprises manages these operations. The JCCC Furniture Factory is the furniture manufacturing portion of Missouri Vocational Enterprises operations inside of the Missouri Department of Corrections Jefferson City Correctional Center. All of these names are part of the Missouri Department of Corrections. This installation is considered one source, 051-0066. The major process performed at the installation include painting, laminating, sawing, banding, wrapping, molding, routing, drilling, sanding, glueing, spraying and coating with lacquers and stains, and packaging of final products.

The site has chosen limits that will make them a de minimis source for SO_x, NO_x, VOCs and HAPs. This will remain a basic source under operating permits.

Permit number 052005-012 was originally issued to installation 051-0027. Which is a Department of Corrections Installation located next to this site. This was later corrected to installation 051-0066. The following permit activities have occurred at Missouri Vocational Enterprises-JCCC Furniture Factory from the Air Pollution Control Program.

Table 1: Permitting Activities at 051-0066.

| Permit Determination | Description |
|-------------------------------|--|
| Closed out, Inactive | Project number 2003-09-005 Security Center |
| Permit 052005-012 issued | Project Number 2004-05-113 Security Center |
| Issued Basic Operating Permit | Project Number 2006-05-078 |

PROJECT DESCRIPTION

Missouri Vocational Enterprises-JCCC Furniture Factory has applied for authority change from using a water based glue to petroleum based glues that contain volatile organic compounds (VOC) and hazardous air pollutant (HAPs) used in gluing down laminate and others adhesion needs in the manufacture of furniture.

According to the application emission point EP-09 the gluing of laminate will be impacted by the change in glues. Three glues were reviewed by conservatively estimating emissions by using the worst case emissions per pollutant for the use of the following glues: STA-PUT S100 NF brush able contact adhesive, STA-PUT SPH Adhesive cylinder mixture, and Wilsonart 600 Adhesive. The glue is applied by spray, brush and roller.

Missouri Vocational Enterprises-JCCC Furniture Factory needed a permit because the hourly amount of HAP emissions Potential To Emit exceeded 0.5 pounds per hour as provided in 10 CSR 10-6.061 Construction Permit Exemptions (3)(A)3.B. The emission increases for this project are less than de minimis. All available VOC and HAPs are considered to be emitted.

EMISSIONS/CONTROLS EVALUATION

The emission factors and control efficiencies used in this analysis were obtained from mass balance and engineering judgment. The Maximum Hourly Design Rates were based on previously established rate of 0.24 gallons per hour. 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 2: Emissions Summary (tons per year)

| Pollutant | Regulatory <i>De Minimis</i> Levels | Existing Potential Emissions | Existing Actual Emissions (2008EIQ) | Potential Emissions of the Application | Installation Conditioned Potential |
|------------------|-------------------------------------|------------------------------|-------------------------------------|--|------------------------------------|
| PM ₁₀ | 15.0 | 6.35 | 0.31 | N/A | N/A |
| SO _x | 40.0 | 170.49 | 0.19 | N/A | <40.0 |
| NO _x | 40.0 | 64.66 | 3.24 | N/A | <40.0 |
| VOC | 40.0 | 229.18 | 5.88 | 8.00 | <40.0 |
| CO | 100.0 | 32.60 | 2.72 | N/A | N/A |
| HAPs | 10.0/25.0 | 43.77 | N/D | 8.76 | <10.0/25.0 |

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

Existing emissions are from permit number 052005-012 with project number 2004-05-113 for the Jefferson City Correctional Center.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of VOCs and HAPs for this project are below de minimis levels.

APPLICABLE REQUIREMENTS

Missouri Vocational Enterprises-JCCC Furniture Factory 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.

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 June 1 for the previous year's emissions.
- *Operating Permits*, 10 CSR 10-6.065
- *Restriction of Emission of Odors*, 10 CSR 10-3.090

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), 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 June 2, 2009, received June 2, 2009, designating Missouri Vocational Enterprises Central Office as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Northeast Regional Office Site Survey, October 9, 2009.

Attachment E
Hazardous Air Pollutant (HAP) Threshold Levels

| Chemical | CAS# | Emission Threshold Levels (tons/year) | Synonyms |
|---|------------|---------------------------------------|--|
| 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 Acetaminde, N-Fluroen-2-yl Acetamide, 2-Acetamideofluorene |
| 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 |
| Benidine | 92-87-5 | 0.0003 | 4,4'-Biphenyldiamine, P-Diaminodiphenyl, 4,4'-Diaminobiphenyl, Benidine Base |
| Benzo(a)pyrene | 50-32-8 | 0.01 | |
| Benzo(b)fluoranthene | 205-992 | 0.01 | |
| 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) |

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| Beryllium Salts | | 0.00002 | |
| Biphenyl* | 92-52-4 | 10 | |
| 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) |
| Bromoform* | 75-25-2 | 10 | Tribromomethane |
| 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) |
| Calcium Cyanamide* | 156-62-7 | 10 | |
| Caprolactam* | 105-60-2 | 10 | |
| Captan* | 133-06-2 | 10 | |
| Carbaryl* | 63-25-2 | 10 | |
| 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 |
| Chlorobenzene | 108-90-7 | 10 | |
| 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 |

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| Cresols/ Cresylic Acid (isomers and mixture) | 1319-77-3 | 1 | |
| Cumene | 98-82-8 | 10 | |
| Cyanide Compounds (except those specifically listed) ¹ | 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 | | |
| Dibutylphthalate* | 84-74-2 | 10 | |
| 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 |
| Dichlorobenzidine, [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 |
| Dichlorophenoxyacetic acid, [2,4], salt and esters* | 94-75-7 | 10 | |
| 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, Bianisidine, 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 Phthalate* | 131-11-3 | 10 | |
| 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 |

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|---|------------|-------|---|
| 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 |
| Ethoxy Ethanol [2-]* | 110-80-5 | 10 | |
| Ethyl Acrylate | 140-88-5 | 1 | Ethyl Propenoate, Acrylic Acid Ethyl Ester |
| Ethyl Benzene* | 100-41-4 | 10 | |
| Ethyl Chloride* | 75-00-3 | 10 | |
| Ethylene Glycol* | 107-21-1 | 10 | |
| 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) ² | | 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 |
| Hydrochloric Acid* | 7647-01-0 | 10 | |
| 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 | |
| Isophorone* | 78-59-1 | 10 | |
| Lead and Compounds (except those specifically listed) | 20-11-1 | 0.01 | Lead (Acetate, Arsenate, Chloride, Fluoride, Iodide, Nitrate, Sulfate, Sulfide) |
| Lindane [Gamma- | 58-89-9 | 0.01 | Benzene Hexachloride – Gamma Isomer |

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| Hexachlorocyclohexane] | | | |
| Maleic Anhydride | 108-31-6 | 1 | 2,5-Furandiene, Cis-Butenedioic Anhydride, Toxilic 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 (Inorganic) | 20-13-3 | 0.01 | Mercury (Chloride, Cyanide, (I,II)-[Bromide, Iodide, Nitrate, Sulfate], Oxide) |
| Methanol* | 67-56-1 | 10 | |
| Methoxychlor* | 72-43-5 | 10 | |
| Methoxy Ethanol, [2-]* | 108-86-4 | 10 | |
| Methyl Bromide* | 74-83-9 | 10 | Bromomethane |
| Methyl Chloride* | 74-87-3 | 10 | Chloromethane |
| Methyl Chloroform* | 71-55-6 | 10 | 1,1,1,-Trichloroethane |
| Methyl Hydrazine | 60-34-4 | 0.06 | Monomethylhydrazine, Hydrozomethane, 1-Methylhydrazine |
| Methyl Iodide | 74-88-4 | 1 | Idomethane |
| Methyl Isobutyl Ketone* | 108-10-1 | 10 | |
| Methyl Isocyanate | 624-83-9 | 0.1 | Isocyanatomethane, Isocyanic Acid, Methyl Ester |
| Methyl Methacrylate* | 80-62-6 | 10 | |
| Methyl Tert-Butyl Ether* | 12108-13-3 | 10 | |
| 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 |
| Methylene Chloride* | 75-09-2 | 10 | Dichloromethane |
| Methylenedianiline, [4,4-] | 101-77-9 | 1 | 4,4'-Diaminodipheylmethane, DDM, MDA, Bis(4-Aminophenyl)Methane, DAPM |
| Naphthalene* | 91-20-3 | 10 | |
| 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 | Nitrobenzoi, 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 |

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| 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 | |
| Phenylenediamine, [p-]* | 106-50-3 | 10 | |
| 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 |
| Propoxur* | 114-26-1 | 10 | Baygone |
| 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 | 101020188 | 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 |
| Tetrachloroethylene* | 127-18-4 | 10 | Perchloroethylene |
| Tetraethyl Lead | 78-00-2 | 0.01 | |
| Tetramethyl Lead | 75-74-1 | 0.01 | |
| Titanium Tetrachloride | 7550-45-0 | 0.1 | Titanium Chloride |
| Toluene* | 108-88-3 | 10 | |
| Toluene Diisocyanate, [2,4-] | 584-84-9 | 0.1 | TDI, Tolyene Diisocyanate, 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 |
| Trichlorobenzene* | 120-82-1 | 10 | |

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| Trichloroethane, [1,1,2-] | 79-00-5 | 1 | Vinyl Trichloride, Beta-Trichloroethane |
| Trichloroethylene* | 79-01-6 | 10 | |
| Triethylamine* | 121-44-8 | 10 | |
| 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 |
| Xylenes (isomers and mixtures)* | 1330-20-7 | 10 | |
| Xylene, m-* | 108-38-3 | 10 | |
| Xylene, o-* | 95-47-6 | 10 | |
| Xylene, p-* | 106-42-3 | 10 | |

¹X'CN where X'H' or any other group where a formal dissociation may occur, for example, KCN or Ca(CN)₂

²Includes mono- and diethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH₂CH₂)_n-OR' where n = 1, 2, or; R=Alkyl or aryl groups; R' R, H or groups which, when removed, yield glycol ethers with the structure R-(OCH₂CH₂)_n-OH. Polymers and ethylene glycol monobutyl ether are excluded from the glycol category.

Mr. Steve Ancell
MVE Coordinator
Missouri Vocational Enterprises-Office Systems Factory
1717 Industrial Drive
Jefferson City, MO 65109

RE: New Source Review Permit - Project Number: 2009-06-075

Dear Mr. Ancell:

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 do not hesitate to contact Timothy Paul Hines at the Departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale
New Source Review Unit Chief

KBH:thl

Enclosures

c: Northeast Regional Office
PAMS File: 2009-06-075

Permit Number: