

PERMIT BOOK

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: 082009-009 Project Number: 2009-06-003

Parent Company: Hutchens Industries Inc.

Parent Company Address: P.O. Box 1427, Springfield, MO 65801

Installation Name: Hutchens Industries, Inc, Mansfield Facility

Installation Address: 898 East Commercial, Mansfield, MO, 65704

Location Information: Wright County, S22, T28N, R15W

Application for Authority to Construct was made for: Installation of a dip coating operation which consists of one 2,500 gallon water reducible dip paint tank, one 1,200 gallon heated alkaline wash tank, one 600 gallon heated iron phosphate wash tank, two 600 gallon rinse tanks, one 600 gallon seal tank, one non heated air blow off system, and one heated paint curing room with an overhead conveyor. 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.

\_\_\_\_\_  
AUG 20 2009  
EFFECTIVE DATE

\_\_\_\_\_  
James C. Karamanik  
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.

Page No.	3
Permit No.	
Project No.	2009-06-003

**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."*

Hutchens Industries, Inc, Mansfield Facility  
 Wright County, S22, T28N, R15W

1. Emission Limitation – Volatile Organic Compounds
  - A. Hutchens Industries, Inc, Mansfield Facility shall emit less than 40.0 tons of Volatile Organic Compounds (VOCs) from the equipment listed in Table 1 in any consecutive 12-month period.

Table 1: Equipment limited to less than 40 tons of VOC.

<b>Emission Point</b>	<b>Description</b>
EP-33	W/R Dip Paint System is a 600 gallon non heated non chrome seal tank, one non heated air blow off system, one 2,500 gallon water reducible dip pant tank.
EP-34A	Alkaline wash is a 12000 gallon heated tank with a 1.269,000Btu/hr burner and a 600 gallon non heated rinse tank
EP-34	Iron phosphate wash is a 6000 gallon heated tank with a 706000Btu /burner and a 6000 gallon non heated rinse tank
EP-35	Paint curing system 14 natural gas burners at 50,000 Btu/hr each and one overhead conveyor with a line speed of 10-15vfeet/minute.

- B. Attachment A or equivalent forms approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 1(A). Hutchens Industries, Inc, Mansfield Facility 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.
    - C. Hutchens Industries, Inc, Mansfield shall report to the Air Pollution Control

Page No.	4
Permit No.	
Project No.	2009-06-003

## SPECIAL CONDITIONS:

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

Program's Enforcement Section, P.O. Box 176, 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..

2. Use of Alternative Coatings in W/R Dip Tank (EP 33)
  - A. Hutchens Industries, Inc, Mansfield When considering using an alternative material in the new W/R Dip Tank (EP 33) that is different than a material listed in the Application for Authority to Construct, Hutchens Industries, Inc, Mansfield Facility shall calculate the potential emissions of volatile organic compounds (VOCs) and each individual HAP in the alternative material.
  - B. Hutchens Industries, Inc, Mansfield shall seek approval from the Air Pollution Control Program before use of the alternative material in the following cases:
    - i. If the potential VOC emissions for the alternative material is equal to or greater than 40.0 tons per year (tpy) for a paint coating or a reducer or wash chemical.
    - ii. 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 C or found at [http://www.dnr.mo.gov/forms/NSR\\_SUPPL\\_INFO\\_PACKAGE.pdf](http://www.dnr.mo.gov/forms/NSR_SUPPL_INFO_PACKAGE.pdf).
  - C. Attachment B or an equivalent form shall be used to show compliance with Special Condition 2.A. and 2.B. Hutchens Industries, Inc, - Mansfield Facility 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.
3. Calculation of Installation Wide Potential To Emit – Major Source Determination.
  - A. Hutchens Industries, Inc, Mansfield must submit within 120 days of permit issuance the Potential to Emit of the entire installation and submit this calculation to the Permut Section of The Air Pollution Control Program. The installation has terminated major portions of the operations and the major source determination for VOC and HAPs is in doubt. An equipment list should be included with emission unit and emission points identified. The information should include the basis of the calculations (MSDS sheets and maximum hourly design rate methods of determinations).
  - B. The following should be included fugitive sources, volume sources and

Page No.	5
Permit No.	
Project No.	2009-06-003

**SPECIAL CONDITIONS:**

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

areas sources and point sources. The installation should identify when it was a major source for VOC and HAPs and when if it is no longer is a major source for VOC and HAPs.

- C. The PTE calculation should include the following pollutants: PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, VOC, CO and individual and combined HAPs.
- D. The information must be submitted in both electronic records which allows for access to calculation methods and by hard copy which includes supporting basis of calculation.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (5) REVIEW

Project Number: 2009-06-003  
Installation ID Number: 229-0001  
Permit Number:

Hutchens Industries, Inc, Mansfield Facility  
898 East Commercial  
Mansfield, MO, 65704

Complete: 06/05/2009

Parent Company:  
Hutchens Industries Inc.  
P.O. Box 1427  
Springfield, MO 65801

Wright County, S22, T28N, R15W

REVIEW SUMMARY

- Hutchens Industries, Inc, Mansfield Facility has applied for authority to construct a dip coating operation which consists of one 2,500 gallon water reducible dip paint tank, one 1,200 gallon heated alkaline wash tank, one 600 gallon heated iron phosphate wash tank, two 600 gallon rinse tanks, one 600 gallon seal tank, and non heated air blow off system, and one heated paint curing room with an overhead conveyor.
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment. HAPs of concern from this process are diethylene Glycol Monobutyl Ether with CAS number 112-34-5, triethylamine with CAS number 121-44-8 and cobalt carboxylate mixture with CAS number 27253-31-2 . The cobalt carboxylate mixture is consider a Cobalt Compound.
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment.
- Subpart A of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations applies to this installation. The Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart M, National Emission Standards for *Hazardus Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*, applies to the proposed equipment.
- 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 VOC are limited to de minimis levels.

- This installation is located in Wright 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.
- The Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart M, National Emission Standards for *Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*, may require testing for the equipment.
- A Part 70 Operating Permit application revision is required for this installation within 1 year of equipment startup.
- Approval of this permit is recommended with special conditions.

#### Installation Description

Hutchens Industries, Inc. - Mansfield Facility, Incorporated fabricates truck trailer suspensions at its Mans Steel Fabrication facility in Mansfield, Missouri (Wright County). This installation has been in operation since approximately 1971. The installation consisted of a steel foundry for casting of components, welding and painting operations for fabrication and a lumber mill where logs are sawn and shipping crates constructed. The saw mill in 2004 and the foundry in 2007 notified that they have terminated operations. Hutchens received a Part 70 operating permit on March 31, 1999 (permit no. OP1999-046 and has been renewed under permit # OP2007-004B). The operating permit was amended for responsible official change and expires on January 24, 2012. This installation is an existing major source of VOCs, HAPs, and a minor source for all other criteria air pollutants. The following construction permits have been issued to Hutchens Industries, Inc. - Mansfield Facility from the Air Pollution Control Program. This permit requires the site to submit PTE calculations to verify that they are a major source.

Table 2: Previously Issued Construction Permits

Permit Number	Description
062007-013	Increase production dip tank to two gallons per hour and by increasing length and speed of conveyor line which feeds the tank.
0691-015	Construction of two (2) pyrolysis cleaning furnaces and four (4) paint booths
0596-008	Conversion from solvent based primer to water reducible primer, construction of liquefied petroleum gas (LPG) burner, construction of paint booth
0996-006	Construction of sawdust storage system, a propane lumber drying kiln, and a robotic welding line
1197-002	Installation of dry plasma metal cutting torch
0298-006	Installation of spray paint booth
062003-007	Installation of a primer dip tank

**PROJECT DESCRIPTION**

Hutchens is installing a small parts water reducible dip painting operation consisting of one 2,500 gallon water reducible dip paint tank, one 1,200 gallon heated alkaline wash tank, one 600 gallon heated iron phosphate wash tank, two 600 gallon rinse tanks, one 600 gallon seal tank, one non heated air blow off system, and one heated paint curing room with an overhead conveyor.

This installation has had major equipment shut down since the last construction permit activity and the operating permit submittal. Construction permit 062007-013 (project number 2007-03-026) took installation potential emissions from the previous permit in 2003 (062003-007) which did not show the reduction in emissions from the saw mill and the foundry portions being shut down. The saw mill notified in 2004 and the foundry notified in 2007 by way of the operating permit application that the operations were terminated. The potential emissions of the installation when combined with project emissions from project 2007-03-026 established that the installation was a major source for VOC. The saw mill would, in general terms, not be considered a source for VOC. For a period of time, in 2007 this was a major source for VOCs before the foundry was shut down. If a major source has a PTE emission increase above 40 tons, the project is considered a PSD Section 8 permit. A Section 8 PSD application was not submitted by the installation. To avoid a Section 8 review the installation took a limit on the VOC emitted from this project to less than 40 tons. A special condition was added to this permit to cause the installation to recalculate the installation wide potential to emit on all criteria pollutants and HAPS to determine if it remains a major source of VOC's and HAPs. By limiting this project to 40 tons of VOC, this project will not be impacted by the results of that determination. If the installation shows that it is no longer a major source of VOCs, the VOC limit can be removed, by request of the installation. If it remains a major source of VOCs, to remove the limit will require a PSD application.

Water reducible primer with VOC concentration of 2.52 pounds/gallons established in the application as the dip coating that will be used in the Dip Tank. No HAPS or VOC were identified in the wash or cleaner solutions. No other primers were considered in this review. No controls are in place to reduce emissions from the new dip tank. The HAPs, Diethylene Glycol Monobutyl Ether with CAS number 112-34-5, triethylamine with CAS number 121-44-8 used in this application are considered both a HAP and a VOC. The HAP, cobalt carboxylate mixture, with CAS number 27253-31-2, is both a HAP and a PM. This is defined because when a HAP is both a HAP and a VOC, the HAP emissions are added to the VOC emissions for record keeping purposes to show compliance with the less than 40 ton VOC limit.

**EMISSIONS/CONTROLS EVALUATION**

A mass balance approach was used in the analysis of PM<sub>10</sub>, VOC, and HAP emissions from the dip painting operation. For the purpose of calculating potential emissions from this application, it is assumed that all VOCs contained in the coatings are emitted as pollutant. Percentage of solids and VOC by weight and density of the coatings were

determined from Material Safety Data Sheets (MSDS) provided by the applicant.

When using water reducible primer, HAP emissions will occur from diethylene glycol mono butyle ether, triethyl amine, and cobalt compounds. In addition to being considered HAPs, cobalt compounds are emitted as PM<sub>10</sub>. A transfer efficiency of 90% was assumed for dip coating to determine the PM<sub>10</sub> emissions. Potential emissions of the application represent the potential of the dip painting operation, assuming continuous operation (8760 hours per year). This PM<sub>10</sub> transfer efficiency was also applied to the HAP that is considered a PM source. The PM is generated from the drying of the product.

Potential emissions of the application represent the potential of the dip painting operation, assuming continuous operation (8760 hours per year). Existing potential emissions are taken from permit number 062007-013. The worst case scenario for HAP and VOC emissions were determined to be from using solvent based primer. Those emissions are found in the following table that provides an emissions summary for this project.

Table 3: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2008 EIQ)	Potential Emissions of the Application	New Project Conditioned Potential
PM <sub>10</sub>	15.0	204.2	0.76	1.63	N/A
SO <sub>x</sub>	40.0	35.1	0.01	0.01	N/A
NO <sub>x</sub>	40.0	29.37	1.15	1.18	N/A
VOC	40.0	277.8	13.06	58.72	<40 tons
CO	100.0	4.3	0.29	0.99	N/A
HAPs	10.0/25.0	128.31	N/D	4.23	** Subpart MMMM
Triethyl Amine	10	N/D	N/D	2.82	** Subpart MMMM
Cobalt Compounds	0.1***	N/D	N/D	0.04	** Subpart MMMM
Diethylene Glycol mono Butyle Ether	10	N/D	N/D	1.35	** Subpart MMMM

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

\*\*Subpart MMMM has set emissions limitations of hazardous air pollutants for this installation.

\*\*\* Cobalt Compounds regulatory de minimis levels is a SMAL (Screen Modeling Action Level ) value.

The application indicated three sources of combustion emissions. HAPs are reported from the burning of natural gas of 0.02 tons per year. These HAPs are not speciation to the individual HAPs in Table 3.

Table 4: Natural Gas Combustion Source

Emission Point	Description
EU34A	1.3 MMBtu/hr Parts washer
EU34 B	0.7 MM Iron Phosphate tank burner
EU35	0.7 MMBtu/h (14 units times 50,000Btu/hr) paint curing system

## PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Because this installation has taken a VOC limit on the equipment listed for this project of less than 40 tons potential emissions of VOC's are less than *De Minimis* levels. Since the installation's processes are regulated under, 40 CFR Part 63, *National Emission Standards for Hazardous Air Pollutants for Surface Coating*, HAP emissions are regulated by the federal standard.

## APPLICABLE REQUIREMENTS

Hutchens Industries, Inc, Mansfield Facility 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 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

- *Maximum Achievable Control Technology (MACT) Regulations*, 10 CSR 10-6.075, *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*, 40 CFR Part 63, Subpart MMMM
- *Emission Standards for Hazardous Air Pollutants*, 10 CSR 10-6.080 – *National Emission Standards for Hazardous Air Pollutants (NESHAPs) for General Provisions*, 40 CFR Part 61, Subpart A

- *Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating, 10 CSR 10-3.060*

### 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 (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted without special conditions.

\_\_\_\_\_  
Tim Hines  
Environmental Engineer

\_\_\_\_\_  
Date

### PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, May 20, 2009 , received June 24, 2009, designating Hutchens Industries Inc. as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Southwest Regional Office Site Survey, dated June 12, 2009.





**Attachment C**  
**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
Benzidine	92-87-5	0.0003	4,4'-Biphenyldiamine, P-Diaminodiphenyl, 4,4'-Diaminobiphenyl, Benzidine 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)

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

Cresols/ Cresylic Acid (isomers and mixture)	1319-77-3	1	
Cumene	98-82-8	10	
Cyanide Compounds (except those specifically listed) <sup>1</sup>	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
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
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

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) <sup>2</sup>		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

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

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	

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	

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

<sup>2</sup>Includes mono- and diethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-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-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OH. Polymers and ethylene glycol monobutyl ether are excluded from the glycol category.

Mr. Kevin Dobson  
E, H & S Director  
Hutchens Industries, Inc, Mansfield Facility  
898 East Commercial  
Mansfield, MO, 65704

RE: New Source Review Permit - Project Number: 2009-06-003

Dear Mr. Dodson:

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 Tim 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:thk

Enclosures

c: Southwest Regional Office  
PAMS File: 2009-06-003

Permit Number: