

Missouri Department of

dnr.mo.gov

# NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

APR 02 2018

Mr. Jerry Claxton  
Parts Department & Body Shop Manager  
Prime Inc.  
2740 North Mayfair Avenue  
Springfield, MO 65803

RE: New Source Review Permit, Permit by Rule  
Project Number: 2018-03-014  
Facility ID Number: 077-0176

Dear Mr. Claxton:

Enclosed with this letter is your permit to construct. The entire permit must be retained in your files. Please review your permit carefully. 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. *Section A: General Notification Information* and *Section B: Special Conditions for Surface Coating Operations* are part of your permit. *Section C: Other Potentially Applicable Requirements* of your original application should be replaced with the attached pages, a revised Section C. The application forms located on our website, specifically Section C, contain outdated rule references. Many of the rules for certain geographical areas have been rescinded and consolidated into state-wide rules. The attached Section C has been revised to reflect the current applicable rules. In addition, the worksheets contained in the permit-by-rule application for surface coating have been updated to include more complete instructions. Please use these in lieu of the original worksheets provided in the application.

Operation in accordance with these conditions is necessary for continued compliance. An on-site compliance inspection will be performed at a later date, to validate your statements and conditions claimed on the permit by rule notification. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.



Recycled paper

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

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kendall B. Hale, P.E.  
Permits Section Chief

KBH:shj

Enclosures

c: Southwest Regional Office  
PAMS File 2018-03-014

Permit Number: 042018-001



**PERMIT  
TO  
CONSTRUCT  
PERMIT BY RULE**

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

**Construction Permit Number:** 042018-001  
**Project Number:** 2018-03-014  
**Installation ID:** 077-0176

**Installation Name and Address**

Prime Inc.  
2740 North Mayfair Avenue  
Springfield, MO 65803  
Jackson County

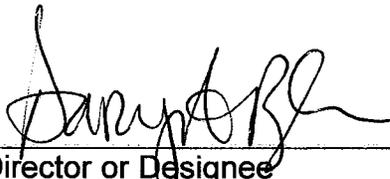
**Parent Company's Name and Address**

Prime Inc.  
2740 North Mayfair Avenue  
Springfield, MO 65803

**Installation Description:**

A pressurized, large equipment dry filter crossflow paint booth to paint trucks and truck parts on site. Air will be pulled horizontally from the front of the booth through the working depth of the booth at a consistent average velocity of approximately 100 feet per minute. Particulate emissions from the spraying operations will be controlled using a dry filter system that will have a minimum 98% removal efficiency. The paint booth will also consist of a 2.7 MMBtu/hour natural gas fired curing oven.

**APR 02 2018**  
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 Compliance and Enforcement Section of 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 permit-by-rule application and this permit. 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 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 the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's personnel upon request.

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

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

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

### Contact Information:

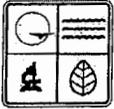
Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
(573) 751-4817

The regional office information can be found at the following website:  
<http://dnr.mo.gov/regions/>

RECEIVED

2018 MAR -7 AM 11:45

077-0176



STATE OF MISSOURI  
 DEPARTMENT OF NATURAL RESOURCES  
 P.O. BOX 176, JEFFERSON CITY, MO 65102-0176  
**AIR POLLUTION CONTROL PGM**  
**APPLICATION FOR AUTHORITY TO CONSTRUCT PERMIT BY RULE NOTIFICATION SURFACE COATING OPERATIONS**

dh

APCP USE ONLY	
CHECK NO. 676787	CHECK RECEIVED (MM/DD/YY) 3-7-18
CHECK AMOUNT \$ 700. <sup>00</sup> / 100. <sup>00</sup> 600. <sup>00</sup>	CHECK DATE (MM/DD/YY) 3-2-18
PROJECT NO. 2018-03-014	PERMIT NO.

**SECTION A: GENERAL NOTIFICATION INFORMATION - ALL NOTIFICATIONS MUST BE ACCOMPANIED BY A \$700 FEE.**

**SECTION A-1: GENERAL INSTALLATION INFORMATION**

1. INSTALLATION NAME Prime Inc.	2. FIPS 077	2. PLAN T NO.
3. INSTALLATION STREET ADDRESS 2740 North Mayfair Avenue		
4. INSTALLATION MAILING ADDRESS 2740 North Mayfair Avenue		
5. CITY Springfield	STATE MO	ZIP CODE 65803
6. COUNTY NAME Greene	7. 1/4, of 1/4, of SECTION TOWNSHIP RANGE S4 T29N R21W	
9. PARENT COMPANY Prime Inc.		
10. PARENT COMPANY MAILING ADDRESS 2740 North Mayfair Avenue		
11. CITY Springfield	STATE MO	ZIP CODE 65803
12. INSTALLATION CONTACT PERSON Jerry Claxton	13. CONTACT PERSON'S TITLE Parts Department & Body Shop Manager	
14. CONTACT PERSON'S MAILING ADDRESS 2740 North Mayfair Avenue, Springfield, MO 65803		
15. INSTALLATION CONTACT TELEPHONE NO. (417) 521-3338	16. INSTALLATION CONTACT FAX NO.	
17. INSTALLATION CONTACT E-MAIL ADDRESS JClaxton@primeinc.com		
18. PROJECTED DATE TO COMMENCE CONSTRUCTION As soon as possible	19. PROJECT DATE OF OPERATION STARTUP As soon as possible	

**SECTION A-2: INSTALLATION DESCRIPTION**

20.  
 Prime Inc. (Prime) owns a trucking company located at 2740 North Mayfair Avenue in Springfield, Missouri. Prime would like to install a pressurized, large equipment dry filter crossflow paint booth to paint trucks and truck parts on site. Air will be pulled horizontally from the front of the booth through the working depth of the booth at a consistent average velocity of approximately 100 feet per minute. Emissions of particulate matter from spraying operations will be controlled using a dry filter system that will have a minimum 98% removal efficiency. The paint booth will also consist of a 2.7 MMBtu/hr natural gas fired curing oven.

**SECTION A-3: CERTIFICATION STATEMENT**

I certify that I have personally examined and am familiar with the information in this application and believe that the information submitted is accurate and complete. I am aware that making a false statement or misrepresentation in this application is grounds for denying or revoking this permit.

21. SIGNATURE OF RESPONSIBLE OFFICIAL <i>Darrell Hopkins</i>	22. DATE 2/13/18
23. TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL Darrell Hopkins	24. RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER (417) 521-3338
25. TITLE OF RESPONSIBLE OFFICIAL Director of Leasing	

**SECTION B: SPECIAL CONDITIONS FOR PRINTING OPERATIONS**

Construction and operation of this new air pollution source is subject to the special conditions listed below. These special conditions are based on the authority granted to the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically RSMo. 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.062 "Construction Permits by Rule").

Please indicate by marking the appropriate box as to whether or not the emission source complies with the rule listed in the applicable emission limit or standard. If any of the applicable emission source boxes are checked no, your source is not eligible for a printing operation permit by rule.

**This Permit By Rule applies only to Surface Coating Operations constructed after Oct. 31, 2003.**

SPECIAL CONDITION	EMISSION SOURCE COMPLIES?	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.062(3)(B)3.A.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Metalizing, spraying molten metal onto a surface to form a coating, is not permitted under this permit-by-rule. The use of coatings that contain metallic pigments is permitted.	Proper work practice.
10 CSR 10-6.062(3)(B)3.B.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	All facilities shall implement good housekeeping procedures to minimize fugitive emissions, including all spills, which shall be cleaned up immediately. The booth or work area exhaust fans shall be operating when cleaning spray guns and other equipment. All new and used coatings and solvents shall be stored in closed containers. All waste coatings and solvents shall be removed from the site by an authorized disposal service or disposed of at a permitted on-site waste management facility.	To ensure proper work practices the operator shall provide and maintain suitable, easily read, permanent markings on all coatings and solvents containers.
10 CSR 10-6.062(3)(B)3.C.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Drying and curing ovens shall either be electric or meet the following conditions: The maximum heat input to any oven must not exceed forty (40) million British thermal units (Btu's) per hour. Heat shall be provided by the combustion of one of the following: natural gas, liquid petroleum gas, fuel gas containing no more than twenty (20) grains of total sulfur compounds (calculated as sulfur) per one hundred (100) dry standard cubic feet, or number 2 fuel oil with not more than three tenths percent (0.3%) sulfur by weight.	Proper work practice.
10 CSR 10-6.062(3)(B)3.D.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Emissions shall be calculated using a material balance that assumes that all VOC's and hazardous air pollutants in the paints and solvents used are directly emitted to the atmosphere. The total uncontrolled emissions from the coating materials (as applied) and cleanup solvents shall not exceed the following for all operations: Forty (40) tons per twelve (12)-month period, rolled monthly, of VOC's for all surface coating operations on the property.  A sum of twenty-five (25) tons per twelve (12)-month period, rolled monthly, of all hazardous air pollutants for all surface coating operations on the property.  Each individual hazardous air pollutant shall not exceed the emission threshold levels established in 10 CSR 10-6.060(12)(J), rolled monthly.	Determined through proper record keeping. Worksheets A, B, and C (or equivalent) shall be used to demonstrate compliance with this condition. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request. The operator shall report to the Air Pollution Control.  Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which these conditions are exceeded.

**SECTION B: SPECIAL CONDITIONS FOR PRINTING OPERATION (CONTINUED)**

SPECIAL CONDITION	EMISSION SOURCE COMPLIES?	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.062(3)(B)3.E.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	The surface coating operations shall be performed indoors, in a booth or in an enclosed work area. The booth shall be designed to meet a minimum face velocity at the intake opening of each booth or work area of one hundred feet (100') per minute. Emissions shall be exhausted through elevated stacks that extend at least one and one-half (1 1/2) times the building height above ground level. All stacks shall discharge vertically. There shall be no obstructions, such as rain caps, unless such services are designed to automatically open when booths are operated.	Proper work practice.
10 CSR 10-6.062(3)(B)3.F.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	For spraying operations, emissions of particulate matter must be controlled using either a water wash system or a dry filter system with a ninety-five percent (95%) removal efficiency as documented by the manufacturer. The face velocity at the filter shall not exceed two hundred fifty feet (250') per minute or that specified by the filter manufacturer, whichever is less. Filters shall be replaced according to the manufacturer's schedule or whenever the pressure drop across the filter no longer meets the manufacturer's recommendation.	Proper work practice.
10 CSR 10-6.062(3)(B)3.G.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Coating operations shall be conducted at least fifty feet (50') from the property line and at least two hundred fifty feet (250') from any recreational area, residence, or other structure not occupied or used solely by the owner of the property upon which the facility is located.	Proper work practice.
10 CSR 10-6.062(3)(B)3.H.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	The facility shall not be located in an ozone non-attainment area.	Proper work practice.
10 CSR 10-6.062(3)(B)3.I.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>Record keeping. The operator shall maintain the following records and reports: All material safety data sheets for all coating materials and solvents. A monthly report indicating the days the surface coating operation was in operation and the total tons emitted during the month, and the calculation showing compliance with the rolling average emission limits of sub paragraphs 10 CSR 10-6.062(3)(B)3.d.</p> <p>A set of example calculations showing the method of data reduction including units, conversion factors, assumptions, and the basis of assumptions.</p> <p>These reports and records shall be immediately available for inspection at the installation.</p>	<p>Determined through proper record keeping. Worksheets A, B, and C (or equivalent) shall be used to demonstrate compliance with this condition. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request.</p> <p>The operator shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (1) days after the end of the month during which these conditions are exceeded.</p>

**SECTION C: OTHER POTENTIALLY APPLICABLE REQUIREMENTS**

This section is intended to identify regulations that may apply to this installation. There may be others not listed that apply. To determine rule applicability and specific standards, please consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. A copy of the CSR can be found at <http://www.sos.mo.gov/adrules/csr/current/10csr/10csr>

Please note: this 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.

REGULATION OR CONSTRUCTION PERMIT REFERENCE	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.045 Open Burning Restrictions	No person shall not conduct, cause, permit or allow the disposal of tires, petroleum-based products, trade waste, construction or demolition waste, salvage operation waste or asbestos containing materials by open burning, except as allowed in the rule.	Any person intending to engage in open burning shall submit a request to the Director.
10 CSR 10-6.050, Start-up, Shutdown and Malfunction Conditions	The permittee shall not commence construction or modification of any installation subject to this rule; begin operation after construction or modification; or begin operation of any installation which has been shut down longer than 5 years without first obtaining a permit.	In the event of a malfunction, which results in excess emissions that exceed 1 hr, the permittee shall implement corrective action and submit reports.
10 CSR 10-6.065, Operating Permits	The permittee shall comply with all applicable requirements identified in the operating permit (OP) and retain a copy of the OP on-site and make available to any Missouri Department of Natural Resources personnel upon request.	As required by the rule, the permittee shall submit an operating permit application and submit an annual compliance certification in accordance with the regulation. The permittee shall maintain a current equipment list on-site with the date of installation of the equipment.
10 CSR 10-6.070 New Source Performance Regulations	<p>The following federal NSPS standards may apply:</p> <ul style="list-style-type: none"> <li>• (EE) Surface Coating of Metal Furniture</li> <li>• (MM) Automobile and Light-Duty Truck Surface Coating Operations</li> <li>• (SS) Industrial Surface Coating: Large Appliances</li> <li>• (TT) Metal Coil Surface Coating</li> <li>• (WW) Beverage Can Surface Coating Industry</li> <li>• (FFF) Flexible Vinyl and Urethane Coating and Printing</li> <li>• (TTT) Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines</li> </ul>	As required by regulations.
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations	<p>The following federal MACT standards may apply:</p> <ul style="list-style-type: none"> <li>• (GG) Aerospace Mfg. &amp; Rework Industry</li> <li>• (JJ) Wood Furniture Manufacturing</li> <li>• (III) Auto &amp; Light Duty Trucks Surface Coating</li> <li>• (KKKK) Metal Can Surface Coating</li> <li>• (MMMM) Miscellaneous Metal Parts Surface Coating</li> <li>• (NNNN) Large Appliance Surface Coating</li> <li>• (OOOO) Printing, Coating &amp; Dyeing of Fabrics &amp; Textiles</li> <li>• (PPPP) Plastic Parts &amp; Products Surface Coating</li> <li>• (QQQQ) Wood Building Products Surface Coating</li> <li>• (RRRR) Metal Furniture Surface Coating</li> <li>• (SSSS) Metal Coil Surface Coating</li> <li>• (HHHHH) Surface Coating &amp; Paint Stripping</li> <li>• (QQQQQ) Wood Preserving Area Sources</li> </ul>	As required by regulations.

**SECTION C: OTHER POTENTIALLY APPLICABLE REQUIREMENTS (continued)**

REGULATION OR CONSTRUCTION PERMIT REFERENCE	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.110, Submission of Emission Data, Emission Fees and Process Information	Submittal of Emission Inventory Questionnaire (EIQ) and emission fees by frequency noted in 10 CSR 10-6.110.	The permittee shall complete and submit an EIQ and emission fees in accordance with 10 CSR 10-6.110.
10 CSR 10-6.165, Restriction of Emission of Odors	No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one (1) volume of odorous air is diluted to seven (7) volumes of odor-free air for two (2) separate trails not less than 15 minutes apart within the period of 1 hour. The odor evaluation shall be taken at a location outside of the installation's property boundary	No odor violations noted, if and when scentometer readings taken.
10 CSR 10-2.205 Control of Emissions From Aerospace Manufacture and Rework Facilities <i>(Applies only to facilities in Clay, Platte, and Platte Counties)</i>	No person shall cause, permit, or allow the emissions of VOC from coating of aerospace vehicle or components to exceed certain amount of VOC per gallon (see rule for more details).	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-2.210 Control of Emissions From Solvent Metal Cleaning <i>(Applies only to facilities in Clay, Platte, and Platte Counties)</i>	This rule specifies equipment, operating procedures and training requirements for solvent cleaning metal operations.	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-2.230 Control of Emissions From Industrial Surface Coating Operations <i>(Applies only to facilities in Clay, Platte, and Platte Counties)</i>	This rule restricts VOC from surface coating operations that exceed certain amounts of VOC per gallon (see rule for more details).	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-5.300 Control of Emissions From Solvent Metal Cleaning <i>(Applies only to facilities in St. Louis, St. Charles, Franklin and Jefferson Counties and the City of St. Louis)</i>	This rule specifies equipment, operating procedures and training requirements for solvent cleaning metal operations.	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-5.330, Control of Emissions From Industrial Surface Coating Operations <i>(Applies only to facilities in St. Louis, St. Charles, Franklin and Jefferson Counties and the City of St. Louis)</i>	This rule restricts VOC from surface coating operations by complying with general provisions for specific coating types (see rule for more details).	Proper work practice and maintenance of records as required by the rule.
10-5.455 Control of Emissions from Solvent Cleanup Operations <i>(Applies only to facilities in St. Louis, St. Charles, Franklin and Jefferson Counties and the City of St. Louis)</i>	This rule restricts cleaning operations unless it meets requirements including VOC-content limitations, cleaning devices and methods, operating requirements, control device inspection and other requirements for coatings, inks and resin manufacturers.	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-5.530, Control of Volatile Organic Compound Emissions From Wood Furniture Manufacturing Operations	The owner or operator shall limit VOC emissions from finishing operations by complying with requirements found in 10 CSR 10-5.530(3).	Proper work practice and maintenance of records as required by the rule.







### Appendix B: Air Pollution Control Program

#### Table of Hazardous Air Pollutants and Screening Model Action Levels

Chemical	CAS #	SMAL tons/yr	Group ID	VOC	PM	Chemical	CAS #	SMAL tons/yr	Group ID	VOC	PM
ACETALDEHYDE	75-07-0	9		Y	N	CHLOROMETHYL METHYL ETHER	107-30-2	0.1		Y	N
ACETAMIDE	60-35-5	1		Y	N	CHLOROPRENE	126-99-8	1		Y	N
ACETONITRILE	75-05-8	4		Y	N	CHROMIUM (VI) COMPOUNDS		0.002	L	N	Y
ACETOPHENONE	98-86-2	1		Y	N	CHROMIUM COMPOUNDS		5	L	N	Y
ACETYLAMINOFLUORINE, [2-]	53-96-3	0.005	V	Y	Y	CHRYSENE	218-01-9	0.01	V	Y	N
ACROLEIN	107-02-8	0.04		Y	N	COBALT COMPOUNDS		0.1	M	N	Y
ACRYLAMIDE	79-06-1	0.02		Y	N	COKE OVEN EMISSIONS	8007-45-2	0.03	N	Y	N
ACRYLIC ACID	79-10-7	0.6		Y	N	CRESOL, [META-]	108-39-4	1	B	Y	N
ACRYLONITRILE	107-13-1	0.3		Y	N	CRESOL, [ORTHO-]	95-48-7	1	B	Y	N
ALLYL CHLORIDE	107-05-1	1		Y	N	CRESOL, [PARA-]	106-44-5	1	B	Y	N
AMINOBIIPHENYL, [4-]	92-67-1	1	V	Y	N	CRESOLS (MIXED ISOMERS)	1319-77-3	1	B	Y	N
ANILINE	62-53-3	1		Y	N	CUMENE	98-82-8	10		Y	N
ANISIDINE, [ORTHO-]	90-04-0	1		Y	N	CYANIDE COMPOUNDS		0.1	O	Y	N
ANTHRACENE	120-12-7	0.01	V	Y	N	DDE	72-55-9	0.01	V	Y	Y
ANTIMONY COMPOUNDS		5	H	N	Y	DI(2-ETHYLHEXYL) PHTHALATE, (DEHP)	117-81-7	5		Y	N
ANTIMONY PENTAFLUORIDE	7783-70-2	0.1	H	N	Y	DIAMINOTOLUENE, [2,4-]	95-80-7	0.02		Y	N
ANTIMONY POTASSIUM TARTRATE	28300-74-5	1	H	N	Y	DIAZOMETHANE	334-88-3	1		Y	N
ANTIMONY TRIOXIDE	1309-64-4	1	H	N	Y	DIBENZ(A,H)ANTHRACENE	53-70-3	0.01	V	Y	N
ANTIMONY TRISULFIDE	1345-04-6	0.1	H	N	Y	DIOXINS/FURANS		6E-07	D,V	Y	N
ARSENIC COMPOUNDS		0.005	I	N	Y	DIBENZOFURAN	132-64-9	5	V	Y	N
ASBESTOS	1332-21-4	0	A	N	Y	DIBROMO-3-CHLOROPROPANE, [1,2-]	96-12-8	0.01		Y	N
BENZ(A)ANTHRACENE	56-55-3	0.01	V	Y	N	DIBROMOETHANE, [1,2-]	106-93-4	0.1		Y	N
BENZENE	71-43-2	2		Y	N	DIBUTYL PHTHALATE	84-74-2	10		Y	Y
BENZIDINE	92-87-5	0.0003	V	Y	N	DICHLOROBENZENE, [1,4-]	106-46-7	3		Y	N
BENZO(A)PYRENE	50-32-8	0.01	V	Y	N	DICHLOROBENZIDENE, [3,3-]	91-94-1	0.2	V	Y	Y
BENZO(B)FLUORANTHENE	205-99-2	0.01	V	Y	N	DICHLOROETHANE, [1,1-]	75-34-3	1		Y	N
BENZO(K)FLUORANTHENE	207-08-9	0.01	V	Y	N	DICHLOROETHANE, [1,2-]	107-06-2	0.8		Y	N
BENZOTRICHLORIDE	98-07-7	0.006		Y	N	DICHLOROETHYLENE, [1,1-]	75-35-4	0.4		Y	N
BENZYL CHLORIDE	100-44-7	0.1		Y	N	DICHLOROMETHANE	75-09-2	10		N	N
BERYLLIUM COMPOUNDS		0.008	J	N	Y	DICHLOROPHENOXY ACETIC ACID, [2,4-]	94-75-7	10	C	Y	Y
BERYLLIUM SALTS		2E-05	J	N	Y	DICHLOROPROPANE, [1,2-]	78-87-5	1		Y	N
BIPHENYL, [1,1-]	92-52-4	10	V	Y	N	DICHLOROPROPENE, [1,3-]	542-75-6	1		Y	N
BIS(CHLOROETHYL)ETHER	111-44-4	0.06		Y	N	DICHLORVOS	62-73-7	0.2		Y	N
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0003		Y	N	DIETHANOLAMINE	111-42-2	5		Y	N
BROMOFORM	75-25-2	10		Y	N	DIETHYL SULFATE	64-67-5	1		Y	N
BROMOMETHANE	74-83-9	10		Y	N	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	5	P	Y	N
BUTADIENE, [1,3-]	106-99-0	0.07		Y	N	DIMETHOXYBENZIDINE, [3,3-]	119-90-4	0.1	V	Y	Y
BUTOXYETHANOL ACETATE, [2-]	112-07-2	5	P	Y	N	DIMETHYL BENZIDINE, [3,3-]	119-93-7	0.008	V	Y	Y
BUTYLENE OXIDE, [1,2-]	106-88-7	1		Y	N	DIMETHYL CARBAMOYL CHLORIDE	79-44-7	0.02		Y	N
CADMIUM COMPOUNDS		0.01	K	N	Y	DIMETHYL FORMAMIDE	68-12-2	1		Y	N
CALCIUM CYANAMIDE	156-62-7	10		Y	Y	DIMETHYL HYDRAZINE, [1,1-]	57-14-7	0.008		Y	N
CAPROLACTAM (Delisted)	105-60-2					DIMETHYL PHTHALATE	131-11-3	10		Y	N
CAPTAN	133-06-2	10		Y	Y	DIMETHYL SULFATE	77-78-1	0.1		Y	N
CARBARYL	63-25-2	10	V	Y	Y	DIMETHYLAMINOAZOBENZENE, [4-]	60-11-7	1		Y	N
CARBON DISULFIDE	75-15-0	1		Y	N	DIMETHYLANILINE, [N-N-]	121-69-7	1		Y	N
CARBON TETRACHLORIDE	56-23-5	1		Y	N	DINITRO-O-CRESOL, [4,6-] (Note 6)	534-52-1	0.1	E	Y	Y
CARBONYL SULFIDE	463-58-1	5		Y	N	DINITROPHENOL, [2,4-]	51-28-5	1		Y	N
CATECHOL	120-80-9	5		Y	N	DINITROTOLUENE, [2,4-]	121-14-2	0.02		Y	N
CHLORAMBEN	133-90-4	1		Y	Y	DIOXANE, [1,4-]	123-91-1	6		Y	N
CHLORDANE	57-74-9	0.01		Y	Y	DIPHENYLHYDRAZINE, [1,2-]	122-66-7	0.09	V	Y	Y
CHLORINE	7782-50-5	0.1		N	N	DIPHENYLMETHANE DIISOCYANATE, [4,4-]	101-68-8	0.1	V	Y	N
CHLOROACETIC ACID	79-11-8	0.1		Y	N	EPICHLOROHYDRIN	106-89-8	2		Y	N
CHLOROACETOPHENONE, [2-]	532-27-4	0.06		Y	N	ETHOXYETHANOL, [2-]	110-80-5	10	P	Y	N
CHLOROBENZENE	108-90-7	10		Y	N	ETHOXYETHYL ACETATE, [2-]	111-15-9	5	P	Y	N

### Appendix B: Air Pollution Control Program

#### Table of Hazardous Air Pollutants and Screening Model Action Levels

Chemical	CAS #	SMAL tons/yr	Group ID	VOC	PM	Chemical	CAS #	SMAL tons/yr	Group ID	VOC	PM
CHLOROBENZILATE	510-15-6	0.4	V	Y	Y	ETHYL ACRYLATE	140-88-5	1		Y	N
CHLOROFORM	67-66-3	0.9		Y	N	ETHYL BENZENE	100-41-4	10		Y	N
ETHYL CHLORIDE	75-00-3	10		Y	N	NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y
ETHYLENE GLYCOL	107-21-1	10		Y	N	NITROBENZENE	98-95-3	1		Y	N
ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-76-2					NITROBIPHENYL, [4-]	92-93-3	1	V	Y	N
ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N	NITROPHENOL, [4-]	100-02-7	5		Y	N
ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N	NITROPROPANE, [2-]	79-46-9	1		Y	N
ETHYLENE OXIDE	75-21-8	0.1		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N
ETHYLENE THIOUREA	96-45-7	0.6		Y	Y	NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N
FORMALDEHYDE	50-00-0	2		Y	N	NITROSO-N-METHYLUREA, [N-]	684-93-5	0.0002		Y	N
GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N	OCTACHLORONAPHTHALENE	2234-13-1	0.01	V	Y	N
GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N	PARATHION	56-38-2	0.1		Y	Y
HEPTACHLOR	76-44-8	0.02		Y	N	PCB [POLYCHLORINATED BIPHENYLS]	1336-36-3	0.009	X	Y	Y
HEXACHLORO BENZENE	118-74-1	0.01		Y	N	PENTACHLORONITROBENZENE	82-68-8	0.3		Y	N
HEXACHLOROBUTADIENE	87-68-3	0.9		Y	N	PENTACHLOROPHENOL	87-86-5	0.7		Y	N
HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N	PHENOL	108-95-2	0.1		Y	N
HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N	PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N
HEXACHLOROCYCLOHEXANE, [DELTA-]	319-86-8	0.01	F	Y	N	PHOSGENE	75-44-5	0.1		Y	N
HEXACHLOROCYCLOHEXANE, [TECHNICAL]	608-73-1	0.01	F	Y	N	PHOSPHINE	7803-51-2	5		N	N
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N
HEXACHLOROETHANE	67-72-1	5		Y	N	PHTHALIC ANHYDRIDE	85-44-9	5		Y	N
HEXAMETHYLENE,-1,6-DIISOCYANATE	822-06-0	0.02		Y	N	POLYCYLIC ORGANIC MATTER		0.01	V	Y	N
HEXAMETHYLPHOSPHORAMIDE	680-31-9	0.01		Y	N	PROPANE SULTONE, [1,3-]	1120-71-4	0.03		Y	Y
HEXANE, [N-]	110-54-3	10		Y	N	PROPIOLACTONE, [BETA-]	57-57-8	0.1		Y	N
HYDRAZINE	302-01-2	0.004		N	N	PROPIONALDEHYDE	123-38-6	5		Y	N
HYDROGEN CHLORIDE	7647-01-0	10		N	N	PROPOXUR [BAYGON]	114-26-1	10		Y	Y
HYDROGEN FLUORIDE	7664-39-3	0.1		N	N	PROPYLENE OXIDE	75-56-9	5		Y	N
HYDROQUINONE	123-31-9	1		Y	N	PROPYLENEIMINE, [1,2-]	75-55-8	0.003		Y	N
INDENO(1,2,3CD)PYRENE	193-39-5	0.01	V	Y	N	QUINOLINE	91-22-5	0.006		Y	N
ISOPHORONE	78-59-1	10		Y	N	QUINONE	106-51-4	5		Y	N
LEAD COMPOUNDS		0.01	Q	N	Y	RADIONUCLIDES		Note 1	Y	N	Y
LINDANE [GAMMA-HEXACHLOROCYCLOHEXANE]	58-89-9	0.01	F	Y	N	SELENIUM COMPOUNDS		0.1	W	N	Y
MALEIC ANHYDRIDE	108-31-6	1		Y	N	STYRENE	100-42-5	1		Y	N
MANGANESE COMPOUNDS		0.8	R	N	Y	STYRENE OXIDE	96-09-3	1		Y	N
MERCURY COMPOUNDS		0.01	S	N	N	TETRACHLORODIBENZO-P-DIOXIN,[2,3,7,8]	1746-01-6	6E-07	D,V	Y	Y
METHANOL	67-56-1	10		Y	N	TETRACHLOROETHANE, [1,1,2,2-]	79-34-5	0.3		Y	N
METHOXYCHLOR	72-43-5	10	V	Y	Y	TETRACHLOROETHYLENE	127-18-4	10		N	N
METHOXYETHANOL, [2-]	109-86-4	10	P	Y	N	TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N
METHYL CHLORIDE	74-87-3	10		Y	N	TOLUENE	108-88-3	10		Y	N
METHYL ETHYL KETONE (Delisted)	78-93-3					TOLUENE DIISOCYANATE, [2,4-]	584-84-9	0.1		Y	N
METHYL HYDRAZINE	60-34-4	0.06		Y	N	TOLUIDINE, [ORTHO-]	95-53-4	4		Y	N
METHYL IODIDE	74-88-4	1		Y	N	TOXAPHENE	8001-35-2	0.01		Y	N
METHYL ISOBUTYL KETONE	108-10-1	10		Y	N	TRICHLORO BENZENE, [1,2,4-]	120-82-1	10		Y	N
METHYL ISOCYANATE	624-83-9	0.1		Y	N	TRICHLOROETHANE, [1,1,1-]	71-55-6	10		N	N
METHYL METHACRYLATE	80-62-6	10		Y	N	TRICHLOROETHANE, [1,1,2-]	79-00-5	1		Y	N
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N	TRICHLOROETHYLENE	79-01-6	10		Y	N
METHYLCYCLOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y	TRICHLOROPHENOL, [2,4,5-]	95-95-4	1		Y	N
METHYLENE BIS(2-CHLOROANILINE), [4,4-]	101-14-4	0.2	V	Y	Y	TRICHLOROPHENOL, [2,4,6-]	88-06-2	6		Y	N
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N	TRIETHYLAMINE	121-44-8	10		Y	N
METHYLNAPHTHALENE, [2-]	91-57-6	0.01	V	Y	N	TRIFLURALIN	1582-09-8	9		Y	Y
MINERAL FIBERS		0	T	N	Y	TRIMETHYLPENTANE, [2,2,4-]	540-84-1	5		Y	N
NAPHTHALENE	91-20-3	10	V	Y	N	URETHANE [ETHYL CARBAMATE]	51-79-6	0.8		Y	N
NAPHTHYLAMINE, [ALPHA-]	134-32-7	0.01	V	Y	N	VINYL ACETATE	108-05-4	1		Y	N
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N	VINYL BROMIDE	593-60-2	0.6		Y	N



## Appendix B: Air Pollution Control Program Table of Hazardous Air Pollutants and Screening Model Action Levels

### NOTES

- Note 1** Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
- Note 2** Emissions of compounds in this aggregate group are combined for comparison to the Major Source Thresholds. Except for those compounds specifically listed, emissions of compounds in this aggregate group are also combined for comparison to the SMALs and RALs.
- Note 3** Emissions of compounds in this aggregate group are combined for comparison to the Major Source Thresholds but are not combined for comparison to the SMALs and RALs.
- Note 4** The total mass of the compound is used to determine emissions for comparison to the Major Source Thresholds. The mass of the metal portion of the compound is used to determine emissions for comparison to the SMALs and RALs.
- Note 5** The total mass of the compound is used to determine emissions for comparison to the SMALs, RALs, and Major Source Thresholds.
- Note 6** The total mass of the compound is used to determine emissions for comparison to the Major Source Thresholds. For these compounds, emissions within the same aggregate group are combined for comparison to the SMALs and RALs, and the 2,4-D portion of 2,4-D Salts and Esters and the Dinitro-ortho-cresol (DNOC) portion of 4,6 Dinitro-o-cresol Salts are used to determine emissions for comparison to the SMALs and RALs.
- Note 7** The total mass of the compound is used to determine emissions for comparison to the Major Source Thresholds. Except for those compounds specifically listed, emissions of cyanide compounds are combined and the mass of the cyanide portion ( $-C\equiv N$ ) of the compound is used to determine emissions for comparison to the SMALs and RALs. For those compounds specifically listed in the table, emissions are not combined and the total mass of the compound is used for comparison to the SMALs and RALs.
- Note 8** Elemental lead is not considered a hazardous air pollutant. However, the lead portion of lead compounds (in addition to elemental lead) is considered a criteria pollutant and should be included in the lead criteria pollutant potential emissions calculations.
- Note 9** The SMAL for radionuclides is defined as the effective dose equivalent to 0.3 millirems per year for 7 years exposure associated with a cancer risk of 1 in 1 million.
- The RAL units for Dibenzodioxins/Dibenzofurans (Dioxins/Furans) and Polychlorinated biphenyls (PCBs) are picograms per cubic meter (pg/m<sup>3</sup>)
- For comparison to the Major Source Threshold combine emissions within each aggregate group and use the total mass of each compound.
- For comparison to the SMAL and RAL, emissions of polychlorinated dibenzodioxins & polychlorinated dibenzofurans (PCDD/PCDF) and polychlorinated biphenyls (PCB) are scaled according to the toxic equivalency factor method and then combined for comparison to the SMAL and RAL:
- For comparison to the SMAL:
- 1) scale the annual emissions of each PCDD/PCDF and PCB by its respective toxic equivalency factor (TEF)
  - 2) after the emissions are scaled, combine them into a single potential annual emissions (tons/year) for comparison to the SMAL
- For comparison to the RAL:
- 1) scale the annual emissions of each PCDD/PCDF and PCB by its respective toxic equivalency factor (TEF)
  - 2) after the emissions are scaled, combine them into a single emission rate (lb/hr) or (grams/second) for modeling
  - 3) the resulting ambient concentration is compared to the RALs for Dioxins/Furans

Note 10	<u>Toxic Equivalency Factors for PCDD, PCDF, and PCB compounds</u>					
	PCDDs	TEF	PCDFs	TEF	PCBs	TEF
	2,3,7,8-TCDD	1.0	2,3,7,8-TCDF	0.1	3,3',4,4'-TCB	0.0001
	1,2,3,7,8-PeCDD	1.0	1,2,3,7,8-PeCDF	0.03	3,4,4',5-TCB	0.0003
	1,2,3,4,7,8-HxCDD	0.1	2,3,4,7,8-PeCDF	0.3	3,3',4,4',5-	0.1
	1,2,3,7,8,9-HxCDD	0.1	1,2,3,4,7,8-HxCDF	0.1	3,3',4,4',5,5'-	0.03
	1,2,3,6,7,8-HxCDD	0.1	1,2,3,7,8,9-HxCDF	0.1	2,3,3',4,4'	0.00003
	1,2,3,4,6,7,8-HpCDD	0.01	1,2,3,6,7,8-HxCDF	0.1	2,3,4,4',5	0.00003
	1,2,3,4,6,7,8,9-OCDD	0.0003	2,3,4,6,7,8-HxCDF	0.1	2,3',4,4',5	0.00003
			1,2,3,4,6,7,8-HpCDF	0.01	2',3,4,4',5	0.00003
			1,2,3,4,7,8,9-HpCDF	0.01	2,3,3',4,4',5-	0.00003
			1,2,3,4,6,7,8,9-OCDF	0.0003	2,3,3',4,4',5-	0.00003
					2,3',4,4',5,5'-	0.00003
					2,3,3',4,4',5,5'	0.00003

## Appendix B: Air Pollution Control Program

### Table of Hazardous Air Pollutants and Screening Model Action Levels

Note 11	Emissions of compounds in this aggregate group are combined for comparison to the Major Source Thresholds. Chromium (VI) compounds, also known as hexavalent chromium compounds, are combined for comparison to the SMAL and RALs for Chromium (VI) compounds. Chromium Compounds of all other oxidation states [i.e. excluding Chromium (VI) Compounds] are combined for comparison to the SMALs and RALs for Chromium Compounds.
Note 12	<i>Emissions of all isomers of Xylenes are combined for comparison to the Major Source Thresholds. Although each isomer is specifically listed, they are not evaluated separately. Emissions of all isomers are combined and compared to the SMAL and RALs for any of the listed isomers as they are all the same.</i>
Note 13	The RAL units for asbestos are fibers/mL (or fibers per cm <sup>3</sup> )
Note 14	The RAL units for Nitroso-N-Methylurea, [N-] (CAS # 684-93-5) are nanograms per cubic meter (ng/m <sup>3</sup> )
Note 15	The 1-hour RAL for Dichloroethylether (CAS # 111-44-4) is 0.287 milligrams per cubic meter (mg/m <sup>3</sup> )
Note 16	The 1-hour RAL for Cyanide Compounds is 11 milligrams per cubic meter (mg/m <sup>3</sup> )
Note 17	The acute RAL for Hydrogen Fluoride (CAS # 7664-39-3) for an exposure period between one and 14 days is 16 micrograms per cubic meter (µg/m <sup>3</sup> )
Note 18	The 4-hour RAL for Arsenic Compounds is 0.19 micrograms per cubic meter (mg/m <sup>3</sup> )
Note 19	The 1-hour RAL for hydrogen chloride is 2,100 micrograms per cubic meter (mg/m <sup>3</sup> )
Note 20	X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or Ca(CN) <sub>2</sub>
Note 21	Glycol ethers include mono- and di-ethers 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 3; R = alkyl C7 or less; or R = phenyl or alkyl substituted phenyl; R' = H or alkyl C7 or less; or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.
Note 22	Fine mineral fibers include mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
Note 23	POM includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100°C
Note 24	Radionuclides are a type of atom which spontaneously undergoes radioactive decay.