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NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

JUL 19 2019

Mr. Kevin Darnell
EHS Manager
SRG Global – Portageville
101 South Meatte Avenue
Portageville, MO 63873

RE: New Source Review Permit Amendment – Permit Number: 052017-002A
Project Number: 2019-01-052; Installation Number: 143-0015

Dear Mr. Darnell:

SRG Global – Portageville operates a molded plastic parts manufacturing facility in New Madrid County, Missouri. Operations include painting, injection molding, grinding, and electroplating. The installation is considered a Title V major source for criteria pollutants but has a synthetic limit to remain an area source for HAPs. The facility is a minor source for all pollutants with respect to PSD and currently has a Part 70 Operating Permit under review.

On January 25, 2019 the Air Pollution Control Program received your request to amend Construction Permit No. 052017-002 in order to include all process tanks originally deemed to not be emission units and to allow for flexibility of materials used in spray coating.

Construction Permit No. 052017-002 included a number of electroless plating tanks as emission units, all of which are aerated. Emissions from these tanks are generated when gas bubbles from aeration burst at the surface of the plating solution and form a mist; therefore, tanks without an aeration supply were not considered a source of emissions. Each of the aerated tanks that use or emit one or more of the plating or polishing metal HAPs, as defined in §63.11511 were listed as being subject to the requirements of 40 CFR 63 Subpart WWWW. Any tank without an aeration supply was simply not included in the permit; however, it was later discovered that several of the non-aerated tanks, while not being a source of emissions, were still subject the requirements of 40 CFR 63 Subpart WWWW because they use one or more of the plating or polishing metal HAPs. These tanks include: TK-3045, TK-3046, TK-3047, and TK-3048.

This amendment will serve to add the previously excluded electroless plating tanks that are subject to 40 CFR 63 Subpart WWWW to Construction Permit No. 052017-002. All of these tanks are vented to a scrubber which limits the indoor concentration of ammonia. Ammonia is not a criteria pollutant or a HAP, so the control device does not need to be made practically enforceable by requiring its use in a special condition.



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There are several additional tanks that were not also included in Construction Permit No. 052017-002 because they were not considered a source of emissions and are not subject to 40 CFR 63 Subpart WWWW. These tanks include: TK-2030, TK-2031, TK-3032, TK-3036, TK-3037, and TK-3052. These previously excluded tanks will also be added to Construction Permit No. 052017-002, but only to form a complete list of process tanks. This list is provided in Appendix A. The inclusion of all previously excluded tanks will not affect potential emissions of the original project and will not require any special conditions to be amended.

SRG Global – Portageville performs spray coating operations on plastic parts, which is classified under PB-01. Potential emissions from spray coating were calculated using a mass balance, which was based on the maximum number of parts that could be coated per hour and the amount of coating that is used for each part. The worst-case emission rates for each criteria pollutant and HAP were determined using the coatings that were expected to be used at the time Construction Permit No. 052017-002 was issued. It was later determined that new customers or changes in future business needs may require the use of coatings that have a higher concentration of VOCs and/or HAPs than the coatings used to previously determine the worst-case emission rates. To allow for the installation to use coatings other than those indicated in Construction Permit No. 052017-002, a special condition is being added to allow for alternative spray coating material flexibility. As long as VOC emissions remain below the major source threshold and HAP emissions remain below the limits established in Special Condition 2, SRG Global – Portageville will be able to use any coatings they want.

Construction Permit No. 052017-002 was written such that all existing equipment at the time of permit issuance was to eventually be removed and replaced by new equipment. Special Condition 3 was included in Construction Permit No. 052017-002 to limit installation-wide HAP emissions below the de minimis level (and below the Screening Model Action Level of hexamethylene diisocyanate) while allowing concurrent operation of existing and new equipment during the installation and replacement of the affected equipment. Currently, all of the referenced existing equipment, except for an emergency fire pump (EP-27), has been removed and replaced; therefore, Special Condition 3 of Construction Permit No. 052017-002 no longer applies to the installation and will be removed. The emergency fire pump will be included in Special Condition 2, which is being updated to limit installation-wide HAP emissions of all current equipment below the de minimis level and/or the Screening Model Action Levels. A list of HAPs and their respective Screening Model Action Levels is provided in Appendix B.

Emissions from the affected equipment in this amendment will not significantly increase the potential emissions listed in Table 3 of Construction Permit No. 052017-002. None of the newly included process tanks have the potential to emit any criteria air pollutants or HAPs. Allowing SRG Global – Portageville to use alternative spray coatings with higher HAP contents will not increase the potential to emit HAPs because Special Condition 2 limits the installation's individual HAP emissions below their respective Screening Model Action Levels and limits the

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installation's combined HAP emissions below the de minimis level. The use of alternative spray coatings with higher VOC contents may increase installation-wide VOC emissions, but it is not possible for SRG Global – Portageville to exceed the major source threshold from the use of alternative spray coatings alone because of the ~100 ton per year difference between the installation-wide VOC emissions and the major source threshold. The emergency fire pump will have the potential to emit combustion products; however, it is only expected to operate for a maximum of 500 hours per year. Emissions from the emergency fire pump are expected to be negligible.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.ao.mo.gov/ahc.

If you have any questions regarding this amendment, please contact Ryan Schott at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kendall B. Hale
Permits Section Chief

KBH:rsd

Enclosures

c: Southeast Regional Office
PAMS File: 2019-01-052

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SPECIAL CONDITIONS:

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

The special conditions listed in this permit were included based on the authority granted to 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."

SRG Global – Portageville
New Madrid County (S36, T21N, R12E)

1. Superseding Condition

The conditions of this permit supersede Special Conditions 2 and 3 of Construction Permit No. 052017-002, previously issued by the Air Pollution Control Program.

2. HAP Emission Limitation

A. SRG Global – Portageville shall emit less than the Screening Model Action Level (SMAL) of any individual HAP and less than 25.0 tons of combined HAPs in any consecutive 12-month period from the entire installation. A summary of installation emission units is provided in Appendix A, and a list of HAPs and their SMALs is provided in Appendix B.

B. SRG Global – Portageville shall develop and use forms to demonstrate compliance with Special Condition 2.A. These forms shall contain, at a minimum, the following information:

- 1) Installation name & ID number
- 2) Permit number
- 3) Current month & 12-month date range
- 4) Monthly throughput of each emission unit
- 5) Monthly individual HAP emissions and total HAP emissions for each emission unit
 - a) Electrolytic Stripping Tanks (TK-2017–TK-2031)
 - No HAP emissions are expected.
 - b) Electroless Chrome & Copper Tanks (TK-3016–TK-3041, TK-3053, TK-3072, TK-3102)
 - HAP emissions shall be calculated using Equation (4) of AP-42 Section 12.20, a capture efficiency of 90% for the hoods, and the respective control efficiency listed in Appendix A. TK-3016–TK-3021 shall also account for a HAP emission reduction of 60% for the use of surfactants/wetting agents.

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SPECIAL CONDITIONS:

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

- c) Electroless Nickel Plating Tanks (TK-3045–TK-3048, TK-3052)
 - No HAP emissions are expected.
- d) Copper Plating Tanks (TK-3054–TK-3069)
 - No HAP emissions are expected.
- e) Nickel Plating Tanks (TK-3076–TK-3098)
 - HAP emissions shall be calculated using emission factors taken from Table 12.20-4 of AP-42 Section 12.20, a capture efficiency of 90% for the hoods, and the respective control efficiency listed in Appendix A.
- f) Chrome Plating Tanks (TK-3103–TK-3104)
 - HAP emissions shall be calculated using the chromium emission limitation methodology from 40 CFR 63 Subpart N (Chrome Plating MACT), a capture efficiency of 90% for the hoods, and the respective control efficiency listed in Appendix A.
- g) Painting Operations (PB-01)
 - HAP emissions shall be calculated using mass balances, assuming that 100% of HAPs in the coatings are emitted. If some of the coatings are shipped offsite for disposal/recycling and the HAP content of those coatings is known through analysis, SRG Global – Portageville reserves the right to subtract the HAP content of those coatings in the mass balances used during the month when calculating emissions. If SRG Global – Portageville chooses to subtract the HAP content from offsite shipments, they shall randomly select 10% of the containers to be shipped for composite sampling for constituent analysis. Otherwise, HAP emissions are assumed to equal the HAP usage rate. HAP content shall be determined from the coatings' SDS; if a range is given, the maximum value shall be used.
- h) Injection Molding (IM-01)
 - HAP (styrene) emissions shall be calculated using an emission factor of 99.5 pounds per million pounds of applicable material (plastics containing free styrene).
- i) Grinding Operations (GR-01)
 - No HAP emissions are expected.

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SPECIAL CONDITIONS:

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

- j) Natural Gas Combusting Units (PBO-01, B-01, H-PACU, H-MAU, H-RTU, H-SH, H-UH, H-DWH)
 - HAP emissions shall be calculated using emission factors taken from Table 1.4-3 of AP-42 Section 1.4.
 - k) Diesel Combusting Units (EM-01, EM-02, EP-27)
 - HAP emissions shall be calculated using emission factors taken from Table 3.3-2 of AP-42 Section 3.3.
 - l) Diesel Storage Tanks (DTK)
 - HAP emissions are assumed to equal 1.0×10^{-5} tons per month.
- 6) Monthly individual HAP emissions and total HAP emissions for each emission unit
 - 7) 12-month rolling total for individual HAP emissions and total HAP emissions, including the sum of all startup, shutdown, and malfunction emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section, in accordance with 10 CSR 10-6.050
 - 8) Indication of compliance with Special Condition 2.A.
3. Use of Alternative Spray Coatings
- A. SRG Global – Portageville is authorized to use alternative spray coatings in their painting operations (PB-01) that are different from the spray coatings listed in the Application for Authority to Construct for Construction Permit No. 052017-002.
 - B. The limits established in Special Condition 2.A shall include the emissions from the use of any alternative spray coatings. These emissions shall be calculated according to the methods described in Special Condition 2.B.5)g).
 - C. SRG Global – Portageville shall maintain a list of all spray coatings used at the installation. This list shall include the date each spray coating was first used. Accompanying this list shall be a SDS for each spray coating.
4. Record Keeping and Reporting Requirements
- A. SRG Global – Portageville shall maintain all records required by this permit for not less than five years and shall make them immediately available to any Missouri Department of Natural Resources' personnel upon request.

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- B. SRG Global – Portageville shall report to the Air Pollution Control Program's Compliance/Enforcement Section at P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov no later than ten days after the end of the month during which any record required by this permit shows an exceedance of a limitation established in this permit.

APPENDIX A

Emission Unit Summary

Emission Unit ID	Stack ID	Emission Unit Description	Control Device ID	Control Device Description	Control Efficiency			
TK-2017	EP-1	Electrolytic Metal Stripping Tank	CD-1	Scrubber 1 – Stripping Tanks	98%			
TK-2018		Electrolytic Metal Stripping Tank						
TK-2022		Electrolytic Strip Tank						
TK-2023		Electrolytic Strip Tank						
TK-2024		Electrolytic Strip Tank						
TK-2025		Electrolytic Strip Tank						
TK-2026		Electrolytic Strip Tank						
TK-2027		Electrolytic Strip Tank						
TK-2030*		Nitric Strip Tank				N/A	N/A	N/A
TK-2031*		Nitric Strip Tank						
TK-3016		EP-2				Electroless Etching Tank	CD-2A & CD-2B	Mesh Pad System 2A – 2 Stage Chrome Separator & Mesh Pad System 2B – Chrome Etch Separator
TK-3017	Electroless Etching Tank							
TK-3018	Electroless Etching Tank							
TK-3019	Electroless Etching Tank							
TK-3020	Electroless Etching Tank							
TK-3021	Electroless Etching Tank							
TK-3028	Electroless Chrome Reduction Tank	CD-2B	Scrubber 2B – Chrome Etch Separator	99.9%				
TK-3032*	EP-3	Pre-Dip HCl Tank	N/A	N/A	N/A			
TK-3036*		Electroless Activation Tank						
TK-3037*		Electroless Activation Tank						
TK-3052*		Electroless Nickel Activation Tank						
TK-3041	Electroless Accelerator Tank	CD-3	Scrubber 3 – Pre-Treat Copper Tanks	98%				
TK-3053	Electroless IC – Copper Plating Tank							
TK-3054	Copper Strike Plating Tank							
TK-3055	Copper Strike Plating Tank							
TK-3056	Acid Copper Plating Tank							
TK-3057	Acid Copper Plating Tank							
TK-3058	Acid Copper Plating Tank							
TK-3059	Acid Copper Plating Tank							
TK-3060	Acid Copper Plating Tank							
TK-3061	Acid Copper Plating Tank							
TK-3062	Acid Copper Plating Tank							
TK-3063	Acid Copper Plating Tank							
TK-3066	Acid Copper Plating Tank							
TK-3067	Acid Copper Plating Tank							
TK-3068	Acid Copper Plating Tank							
TK-3069	Acid Copper Plating Tank							
TK-3072	Electroless Copper Activation Tank							
TK-3045	EP-4				Electroless Nickel Plating Tank	CD-4	Scrubber 4 – Nickel Tanks	0%**
TK-3046					Electroless Nickel Plating Tank			
TK-3047					Electroless Nickel Plating Tank			
TK-3048		Electroless Nickel Plating Tank						

APPENDIX A

Emission Unit Summary

Emission Unit ID	Stack ID	Emission Unit Description	Control Device ID	Control Device Description	Control Efficiency
TK-3076	EP-5	Semi-Bright Nickel Plating Tank	CD-5	Scrubber 5 – Nickel Tanks	98%
TK-3077		Semi-Bright Nickel Plating Tank			
TK-3078		Semi-Bright Nickel Plating Tank			
TK-3079		Semi-Bright Nickel Plating Tank			
TK-3080		Semi-Bright Nickel Plating Tank			
TK-3081		Semi-Bright Nickel Plating Tank			
TK-3082		Semi-Bright Nickel Plating Tank			
TK-3083		Semi-Bright Nickel Plating Tank			
TK-3088		Satin Nickel Plating Tank			
TK-3089		Satin Nickel Plating Tank			
TK-3093		Bright Nickel Plating Tank			
TK-3094		Bright Nickel Plating Tank			
TK-3095		Bright Nickel Plating Tank			
TK-3096		Bright Nickel Plating Tank			
TK-3097		MPS Nickel Plating Tank			
TK-3098		MPS Nickel Plating Tank			
TK-3102		EP-6			
TK-3103	Decorative Chrome Plating Tank				
TK-3104	Decorative Chrome Plating Tank				
PB-01	PB-01	Paint Booth	CD-7	Paint Booth Filter	97%
PBO-01	PBO-01	0.58 MMBtu/hr NG Paint Booth Oven	N/A	N/A	N/A
IM-01	N/A	(24) Injection Molding Machines	N/A	N/A	N/A
GR-01	N/A	Grinding	CD-8	Baghouse	99.5%
B-01	B-01	8.2 MMBtu/hr NG Hot Water Boiler	N/A	N/A	N/A
H-PACU	PACU-01 – PACU-02	(2) 0.24 MMBtu/hr NG Packaged A/C Units	N/A	N/A	N/A
H-MAU	MAU-01 – MAU-06	(1) 0.12 MMBtu/hr NG Make-Up Air Unit (1) 5.64 MMBtu/hr NG Make-Up Air Unit (4) 5.28 MMBtu/hr NG Make-Up Air Units	N/A	N/A	N/A
H-RTU	RTU-01 – RTU-08	(6) 0.15 MMBtu/hr NG Rooftop Units (2) 0.08 MMBtu/hr NG Rooftop Units	N/A	N/A	N/A
H-SH	SH-01 – SH-05	(2) 1.2 MMBtu/hr NG Space Heaters (3) 0.34 MMBtu/hr NG Space Heaters	N/A	N/A	N/A
H-UH	UH-01 – UH-05	(2) 0.25 MMBtu/hr NG Unit Heaters (3) 0.13 MMBtu/hr NG Unit Heaters	N/A	N/A	N/A
H-DWH	DWH-01	0.08 MMBtu/hr NG Domestic Water Heater	N/A	N/A	N/A
HR	HR	Haul Roads	N/A	N/A	N/A
EM-01	EM-01	530hp Diesel Emergency Generator	N/A	N/A	N/A
EM-02	EM-02	260hp Diesel Emergency Fire Pump	N/A	N/A	N/A
EP-27	N/A	240hp Diesel Emergency Fire Pump	N/A	N/A	N/A
DTK	DTK-01 & DTK-02	(2) Diesel Storage Tanks	N/A	N/A	N/A

*These tanks do not emit any criteria air pollutants and are not subject to 40 CFR 63 Subpart WWWW because they do not use or emit any plating or polishing metal HAPs, as defined in §63.11511

**Scrubber 4 controls only ammonia emissions and is not practically enforceable

APPENDIX B

Table of Hazardous Air Pollutants and Screening Model Action Levels (SMALs)

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		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	DICHLOROENZENE, [1,4-]	106-46-7	3		Y	N
BENZO(A)PYRENE	50-32-8	0.01	V	Y	N	DICHLOROENZIDENE, [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
CHLOROENZENE	108-90-7	10		Y	N	ETHOXYETHYL ACETATE, [2-]	111-15-9	5	P	Y	N
CHLOROENZILATE	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

APPENDIX B

Table of Hazardous Air Pollutants and Screening Model Action Levels (SMALs)

Chemical	CAS #	SMAL tons/yr	Group ID	VOC	PM	Chemical	CAS #	SMAL tons/yr	Group ID	VOC	PM
ETHYL CHLORIDE	75-00-3	10		Y	N	NITROBENZENE	98-95-3	1		Y	N
ETHYLENE GLYCOL	107-21-1	10		Y	N	NITROBIPHENYL, [4-]	92-93-3	1	V	Y	N
ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-76-2					NITROPHENOL, [4-]	100-02-7	5		Y	N
ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N	NITROPROPANE, [2-]	79-46-9	1		Y	N
ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N
ETHYLENE OXIDE	75-21-8	0.1		Y	N	NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N
ETHYLENE THIOUREA	96-45-7	0.6		Y	Y	NITROSO-N-METHYLUREA, [N-]	684-93-5	0.0002		Y	N
FORMALDEHYDE	50-00-0	2		Y	N	OCTACHLORONAPHTHALENE	2234-13-1	0.01	V	Y	N
GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N	PARATHION	56-38-2	0.1		Y	Y
GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N	PCB [POLYCHLORINATED BIPHENYLS]	1336-36-3	0.009	X	Y	Y
HEPTACHLOR	76-44-8	0.02		Y	N	PENTACHLORONITROBENZENE	82-68-8	0.3		Y	N
HEXACHLORO BENZENE	118-74-1	0.01		Y	N	PENTACHLOROPHENOL	87-86-5	0.7		Y	N
HEXACHLOROBUTADIENE	87-68-3	0.9		Y	N	PHENOL	108-95-2	0.1		Y	N
HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N	PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N
HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N	PHOSGENE	75-44-5	0.1		Y	N
HEXACHLOROCYCLOHEXANE, [DELTA-]	319-86-8	0.01	F	Y	N	PHOSPHINE	7803-51-2	5		N	N
HEXACHLOROCYCLOHEXANE, [TECHNICAL]	608-73-1	0.01	F	Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N	PHTHALIC ANHYDRIDE	85-44-9	5		Y	N
HEXACHLOROETHANE	67-72-1	5		Y	N	PHTHALIC ANHYDRIDE		0.01	V	Y	N
HEXAMETHYLENE,-1,6-DIISOCYANATE	822-06-0	0.02		Y	N	PROPYLIC ORGANIC MATTER					
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	TRICHLOROBENZENE, [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
METHYLCYCLCOPENTADIENYL 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
NICKEL CARBONYL	13463-39-3	0.1	U	N	Y	VINYL CHLORIDE	75-01-4	0.2		Y	N
NICKEL COMPOUNDS		1	U	N	Y	XYLENE, [META-]	108-38-3	10	G	Y	N
NICKEL REFINERY DUST		0.08	U	N	Y	XYLENES (MIXED ISOMERS)	1330-20-7	10	G	Y	N
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y						

APPENDIX B

Table of Hazardous Air Pollutants and Screening Model Action Levels (SMALs)

Legend	
Group ID	
A	Asbestos
B	Cresols/Cresylic Acid (isomers and mixtures)
C	2,4 - D, Salts and Esters
D	Dibenzofurans, Dibenzodioxins
E	4, 6 Dinitro-o-cresol, and Salts
F	Lindane (all isomers)
G	Xylenes (all isomers and mixtures)
H	Antimony Compounds
I	Arsenic Compounds
J	Beryllium Compounds
K	Cadmium Compounds
L	Chromium Compounds
M	Cobalt Compounds
N	Coke Oven Emissions
O	Cyanide Compounds
P	Glycol Ethers
Q	Lead Compounds (except elemental Lead)
R	Manganese Compounds
S	Mercury Compounds
T	Fine Mineral Fibers
U	Nickel Compounds
V	Polycyclic Organic Matter
W	Selenium Compounds
X	Polychlorinated Biphenyls (Aroclors)
Y	Radionuclides
Notes	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