|  |  |
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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | MG-09APart 70 Manufacturing General Permitrequirements: NESHAP for source categories(40 CFR § 63)Air Quality Permit Program*Doc Type: Permit Application* |

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements for Source Categories**

(40 CFR § 63)

**Refer to the *Handbook and application instructions* for the Part 70 Manufacturing General Permit for form instructions.**

## **Facility information**

|  |  |  |  |
| --- | --- | --- | --- |
| **a)** AQ Facility ID number: |       | **b)** Agency Interest ID number: |       |
| **c)** Facility name: |       |

## **Applicable requirement determination**

**1)** Read through Table A, the list of Hazardous Air Pollutants (HAP) and check one of the following:

[ ]  No, my facility **does not** and will not have the potential toemit any pollutants from the list and is not subject to these requirements for NESHAP. Done with this form. Return to Form MG-09 and mark “No” for questions 1b and 1c.

[ ]  Yes, my facility **does** emit one or more pollutants from the list, go to question 2.

**2)** Is your facility a major source of HAP? Answer questions 2a and 2b to determine this.

**2a)** Does your facility have the potential to emit 10 tons per year or more of any single pollutant listed in Table A?

[ ]  Yes, my facility is a major source of HAP emissions, go to question 3.

[ ]  No, go to question 2b.

**2b)** Does your facility have the potential to emit 25 tons per year or more of all the pollutants listed in Table A?

[ ]  Yes, my facility is a major source of HAP emissions, go to question 3.

[ ]  No, my facility is not a major source of HAP emissions, go to question 5.

**3)** The attached Table B is a list of NESHAPS for Source Categories and important dates associated with each of them. Does your facility have equipment that fits any of the source categories?

[ ]  Yes, check the appropriate box(s) below, indicating the applicable subpart(s), then go to question 4:

[ ]  Halogenated Solvent Cleaning (40 CFR § 63, subp. T)

[ ]  Surface Coating of Miscellaneous Metal Parts and Products (40 CFR § 63, subp. MMMM)

[ ]  Surface Coating of Plastic Parts and Products (40 CFR § 63, subp. PPPP)

[ ]  Reinforced Plastic Composites Production (40 CFR § 63, subp. WWWW)

[ ]  Stationary Compression Ignition Reciprocating Internal Combustion Engines (40 CFR § 63, subp. ZZZZ).

**Indicate engine type below.**

[ ]  Existing (constructed before June 12, 2006), **Non-Emergency** Stationary CI Internal Combustion Engines, 100 < brake Hp < 300

[ ]  Existing (constructed before June 12, 2006), **Emergency** (defined in 40 CFR § 63.6675) Stationary CI Internal Combustion Engines, < 500 brake Hp

[ ]  New (model year 2014 or later), Stationary CI Internal Combustion Engines, < 500 brake Hp

[ ]  Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR § 63, subp. DDDDD)

[ ]  Any other major source category – this facility is not eligible for this general permit

[ ]  No, go to question 5.

**4)** If you answered “Yes” to question 3, please read all the applicable sections of 40 CFR § 63 (i.e., those that you checked in question 3) to determine all applicable requirements in each of the NESHAP for Source Categories. When you return to Form MG-09, answer “Yes” to question 1b. Then continue to question 5 on this form.

**5)** Is your source subject to case-by-case MACT standards?

**5a)** Does your facility have HAP-emitting units that are not included in any category listed in Table B?

[ ]  Yes, you are not eligible for this general permit. Apply for an individual Part 70 permit.

[ ]  No, go to question 5b.

**5b)** Was your source subject to case-by-case MACT standards issued through an individual permit under section 112(g) of the Clean Air Act?

[ ]  Yes, you are not eligible for this general permit. Apply for an individual Part 70 permit.

[ ]  No, mark “No” on question 1c of form MG-09 and “No” on question II-1c on form MG-00.

## **Table A**

**Hazardous Air Pollutants**

75070 Acetaldehyde

60355 Acetamide

75058 Acetonitrile

98862 Acetophenone

53963 2-Acetylaminofluorene

107028 Acrolein

79061 Acrylamide

79107 Acrylic acid

107131 Acrylonitrile

107051 Allyl chloride

92671 4-Aminobiphenyl

62533 Aniline

90040 o-Anisidine

1332214 Asbestos

71432 Benzene (including benzene from gasoline)

92875 Benzidine

98077 Benzotrichloride

100447 Benzyl chloride

92524 Biphenyl

117817 Bis (2-ethylhexyl) phthalate (DEHP)

542881 Bis (chloromethyl) ether

75252 Bromoform

106945 1-Bromopropane (n-propyl bromide)

106990 1,3-Butadiene

156627 Calcium cyanamide

133062 Captan

63252 Carbaryl

75150 Carbon disulfide

56235 Carbon tetrachloride

463581 Carbonyl sulfide

120809 Catechol

133904 Chloramben

57749 Chlordane

7782505 Chlorine

79118 Chloroacetic acid

532274 2-Chloroacetophenone

108907 Chlorobenzene

510156 Chlorobenzilate

67663 Chloroform

107302 Chloromethyl methyl ether

126998 Chloroprene

1319773 Cresols/Cresylic acid (isomers and mixture)

95487 o-Cresol

108394 m-Cresol

106445 p-Cresol

98828 Cumene

94757 2,4-D, salts and esters

3547044 DDE

334883 Diazomethane

132649 Dibenzofurans

96128 1,2-Dibromo-3-chloropropane

84742 Dibutylphthalate

106467 1,4-Dichlorobenzene(p)

91941 3,3'-Dichlorobenzidene

111444 Dichloroethyl ether (Bis(2-chloroethyl)ether)

542756 1,3-Dichloropropene

62737 Dichlorvos

111422 Diethanolamine

121697 N,N-Diethyl aniline (N,N- Dimethylaniline)

64675 Diethyl sulfate

119904 3,3-Dimethoxybenzidine

60117 Dimethyl aminoazobenzene

119937 3,3-Dimethyl benzidine

79447 Dimethyl carbamoyl chloride

68122 Dimethyl formamide

57147 1,1 Dimethyl hydrazine

131113 Dimethyl phthalate

77781 Dimethyl Sulfate

534521 4,6-Dintro-o-cresol, and salts

51285 2,4-Dinitrophenol

121142 2,4-Dinitrotoluene

123911 1,4-Dioxane (1.4-Diethyleneoxide)

122667 1,2-Diphenylhydrazine

106898 Epichlorohydrin (1-Chloro-2,3-epoxypropane)

106887 1,2-Epoxybutane

140885 Ethyl acrylate

100414 Ethyl benzene

51796 Ethyl carbamate (Urethane)

75003 Ethyl chloride (Chloroethane)

106934 Ethylene dibromide (Dibromoethane)

107062 Ethylene dichloride (1,2- Dichloroethane)

107211 Ethylene glycol

151564 Ethylene imine (Aziridine)

75218 Ethylene oxide

96457 Ethylene thiourea

75343 Ethylidene dichloride (1,1-Dichloroethane)

50000 Formaldehyde

76448 Heptacholor

118741 Hexachlorobenzene

87683 Hexachlorobutadiene

77474 Hexachlorocyclopentadiene

67721 Hexachloroethane

822060 Hexamethylene-1,6-diisocyanate

680319 Hexamethylphosphoramide

110543 Hexane

302012 Hydrazine

7647010 Hydrochloric acid

7664393 Hydrogen flouride (hydrofluoric acid)

123319 Hydroquinone

78591 Isophorone

58899 Lindane (all isomers)

108316 Maleic anhydride

67561 Methanol

72435 Methoxychlor

74839 Methyl bromide (Bromomethane)

74873 Methyl chloride (Choromethane)

71556 Methyl chloroform (1,1,1-Trichloroethane)

60344 Methyl hydrazine

74884 Methyl iodide (Iodomethane)

108101 Methyl isobutyl ketone (Hexone)

624839 Methyl isocyanate

80626 Methyl methacrylate

1634044 Methyl tert butyl ether

101144 4,4-Methylene bis (2-chloroaniline)

75092 Methylene chloride (Dichloromethane)

101688 Methlene diphenyl diisocyanate (MDI)

101779 4,4'-Methylenedianiline

91203 Naphthalene

98953 Nitrobenzene

92933 4-Nitrobiphenyl

100027 4-Nitrophenol

79469 2-Nitropropane

684935 N-Nitroso-N-methylurea

62759 N-Nitrosodimethylamine

59892 N-Nitosomorpholine

56382 Parathion

82688 Pentachloronitrobenzene (Quintobenzene)

87865 Pentachlorophenol

108952 Phenol

106503 p-Phenylenediamine

75445 Phosgene

7803512 Phosphine

7723140 Phosphorus

85449 Phthalic anhydride

1336363 Polychlorinated biphenyls (Aroclors)

1120714 1,3-Propane sultone

57578 beta-Propiolactone

123386 Propionaldehyde

114261 Propoxur (Baygon)

78875 Propylene dichloride (1,2-Dichloropropane)

75569 Propylene oxide

75558 1,2-Propylenimine (2-Methyl aziridine)

91225 Quinoline

106514 Quinone

100425 Styrene

96093 Styrene Oxide

1746016 2,3,7,8-Tetrachlorodibenzo-p-dioxin

79345 1,1,2,2-Tetrachloroethane

127184 Tetrachloroethylene (Perchloroethylene)

7550450 Titanium tetrachloride

108883 Toluene

95807 2,4-Toluene diamine

584849 2,4-Toluene diisocyanate

95534 o-Toluidine

8001352 Toxaphene (chlorinated camphene)

120821 1,2,4-Trichlorobenzene

79005 1,1,2-Trichloroethane

79016 Trichloroethylene (TCE) 6

95954 2,4,5-Trichlorophenol

88062 2,4,6-Trichlorophenol

121448 Triethylamine

1582098 Trifluralin

540841 2,2,4-Trimethylpentane

108054 Vinyl acetate

593602 Vinyl bromide

75014 Vinyl chloride

75354 Vinylidene chloride (1,1-Dichloroethylene)

1330207 Xylenes (isomers and mixtures)

95476 o-Xylenes

108383 m-Xylenes

106423 p-Xylenes

0 Antimony compounds

0 Arsenic compounds (inorganic including arsine)

0 Beryllium compounds

0 Cadmium compounds

0 Chromium compounds

0 Cobalt compounds

0 Coke oven emissions

0 Cyanide compounds 1

0 Glycol ethers 2

0 Lead compounds

0 Manganese compounds

0 Mercury compounds

0 Mineral fibers 3

0 Nickel compounds

0 Polycyclic organic matter 4

0 Radionuclides (including radon) 5

0 Selenium compounds

Note: For all listings above which contain the word “compounds” and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical’s infrastructure.

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

2 Glycol ethers include mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH2CH2)n-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.

Glycol ethers do no include ethylene glycol monobutyl ether (EGBE, 2-Butoxyethanol, CAS Number 111-76-2).

3 Includes mineral fiber emissions from facilities manufacturing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micron or less.

4 Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100°C.

5 A type of atom which spontaneously undergoes radioactive decay.

6 Trichloroethylene (TCE) use on or after June 1, 2022, is banned in Minnesota, under Minnesota Statute, section 116.385.

## **Table B**

**Source categories**

| **Categories of major sources** | **Subpart** | **Rule promulgation date or scheduled promulgation date** | **Compliance date for existing sources****(if applicable)** |
| --- | --- | --- | --- |
| Acetyl resins production (**Generic MACT**) | YY | 6/29/99 | 6/29/02 |
| Acrylic fibers/Modacrylic fibers production (**Generic MACT**) | YY | 6/29/99 | 6/29/02 |
| Acrylonitrile-butadiene-styrene production **(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Aerospace Industry | GG | 9/1/95 | 9/1/98 |
| Alkyd resins production **(Misc. Organic Chemical Production and Processes (MON))** | FFFF | 11/10/03 | 05/10/08 |
| Amino resins production **(Polymers and Resins III)** | OOO | 1/20/00 | 1/20/03 |
| Ammonium sulfate production (**MON**) | FFFF | 11/10/03 | 05/10/08 |
| Asphalt/coal tar application - metal pipes | MMMM | 1/2/04 | 1/2/07 |
| Asphalt Processing and Asphalt Roofing Manufacturing | LLLLL | 4/29/03 | 5/1/06 |
| Auto and Light Duty Truck Surface Coating | IIII | 4/26/04 | 4/26/07 |
|  |  |  |  |
| Benzyltrimethylammonium chloride production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Boat Manufacturing | VVVV | 8/22/01 | 8/22/04 |
| Brick and Structural Clay Products Manufacturing | JJJJJ | 5/16/03 | 5/16/06 |
| Butadiene-furfural cotrimer (R-11) production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Butyl rubber production **(Polymers and Resins I)** | U | 9/5/96 | 4/23/12 |
|  |  |  |  |
| Captafol production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Captan production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Carbon Black Production **(Generic MACT)** | YY | 7/12/02 | 7/12/05 |
| Carboxymethylcellulose production**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Carbonyl sulfide production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Cellophane production**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Cellulose ethers production**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Cellulose food casing manufacturing**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Cellulosic sponge manufacturing**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Clay Ceramics Manufacturing | KKKKK | 5/16/03 | 5/16/06 |
| Chelating agents production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Chlorinated paraffins production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| 4-chloro-2-methyl acid production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Chloroneb production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Chlorothalonil production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Chromic acid anodizing **(Chromium Electroplating)** | N | 1/25/95 | 1/25/97 |
| Coke Ovens: Charging, Top Side, and Door Leaks | L | 10/27/93 | Varies |
| Coke Ovens: Pushing, Quenching and Battery Stacks | CCCCC | 4/13/03 | 4/14/06 |
| Combustion (Gas) Turbines | YYYY | 3/5/04 | 3/5/07 |
| Commercial dry cleaning (Perc) transfer machines | M | 9/22/93 | 9/23/96 |
| Commercial Sterilization Facilities | O | 12/6/94 | 12/6/98 |
| Cyanide Chemicals Manufacturing **(Generic MACT)** | YY | 7/12/02 | 7/12/05 |
|  |  |  |  |
| Dacthal ™ production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Decorative chromium electroplating **(Chromium Electroplating)** | N | 1/25/95 | 1/25/96 |
| 4,6,-dinitro-o-cresol production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
|  |  |  |  |
| Engine Test Cells/Stands | PPPPP | 5/27/03 | 5/27/03 |
| Epichlorohydrin elastomers production**(Polymers and Resins I)** | U | 9/5/96 | 4/23/12 |
| Epoxy resins production **(Polymers and Resins II)** | W | 3/8/95 | 3/3/98 |
| Ethylene-propylene rubber production **(Polymers and Resins I)** | U | 9/5/96 | 4/23/12 |
| Ethylidene norbomene production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Explosives production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Ethylene Processes **(Generic MACT)** | YY | 7/12/02 | 7/12/05 |
|  |  |  |  |
| Fabric Printing, Coating, & Dyeing | OOOO | 5/29/03 | 5/29/06 |
| Ferroalloys Production | XXX | 5/20/99 | 5/20/01 |
| Fiberglass Mat Production (wet formed) | HHHH | 4/11/02 | 4/11/05 |
| Flexible Polyurethane Foam Fabrication Operations | MMMMM | 4/14/03 | 4/14/04 |
| Flexible Polyurethane Foam Production | III | 10/7/98 | 10/8/01 |
| Friction Products Manufacturing | QQQQQ | 10/18/02 | 10/18/05 |
| Fume Silica Production **(Hydrochloric Acid Production)** | NNNNN | 4/17/03 | 4/17/06 |
|  |  |  |  |
| Gasoline distribution (Stage 1) | R | 12/14/94 | 12/15/97 |
|  |  |  |  |
| Halogenated solvent cleaners **(Degreasing Organic Cleaners)** | T | 12/2/94 | 12/2/97 |
| Hard chromium electroplating **(Chromium Electroplating)** | N | 1/25/95 | 1/25/97 |
| Hazardous Waste Combustion | Parts 63, 261, and 270 | 9/30/99 | 9/30/03 |
| Hazardous Organic NESHAP(Synthetic Organic Chemical Manufacturing Industry) | F,G | 4/22/94 | 5/14/01 |
| H | 4/22/94 | 5/12/99 |
| I | 4/22/94 | 5/12/98 |
| Hydrazine production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Hydrochloric acid production | NNNNN | 4/17/03 | 4/17/06 |
| Hydrogen Fluoride Production **(Generic MACT)** | YY | 6/29/99 | 6/29/02 |
| Hypalon TM production **(Polymers and Resins I)** | U | 9/5/96 | 7/31/97 |
|  |  |  |  |
| Industrial Dry Cleaning **(Dry Cleaning)** | M | 9/22/93 | 9/23/96 |
| Industrial Cooling Towers | Q | 9/8/94 | 3/8/95 |
| Institutional, Commercial, & Institutional Boilers & Process Heaters**(Industrial Combustion Coordinating Rule)** | DDDDD | 1/31/13 | 1/31/16 |
| Integrated Iron and Steel Manufacturing | FFFFF | 5/20/03 | 5/20/06 |
| Iron and Steel Foundries | EEEEE | 4/22/04 | 4/22/07 |
|  |  |  |  |
| Large Appliance Surface Coating | NNNN | 7/23/02 | 7/23/05 |
| Leather Finishing Operation | TTTT | 2/27/02 | 2/27/05 |
| Lime Manufacturing | AAAAA | 1/5/04 | 1/5/07 |
|  |  |  |  |
| Magnetic Tape | EE | 12/15/94 | 12/15/96 |
| Maleic anhydride copolymers production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Manufacture of paints, coating and adhesives **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Marine Vessel Loading Operations | Y | 9/19/95 | 9/19/99 |
| Mercury cell Chlor-Alkali plants | IIIII | 12/19/03 | 12/19/06 |
| Metal Can Surface Coating | KKKK | 11/13/03 | 11/13/06 |
| Metal Coil Surface Coating | SSSS | 6/10/02 | 6/10/05 |
| Metal Furniture Surface Coating | RRRR | 5/23/03 | 5/23/06 |
| Methyl cellulose production**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Methyl methacrylate-acrylonitrile-butadiene-styrene production**(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Methyl methacrylate-butadiene-styrene terpolymers production**(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Mineral Wool Production | DDD | 6/1/99 | 6/1/02 |
| Miscellaneous Coating Manufacturing | HHHHH | 12/11/03 | 12/11/06 |
| Miscellaneous Metal Parts and Products Surface Coating | MMMM | 1/2/04 | 1/2/07 |
| Municipal Solid Waste Landfills | AAAA | 1/16/03 | 1/16/04Refer to NESHAP |
|  |  |  |  |
| Natural gas transmission and storage | HHH | 6/17/99 | 6/17/02 |
| Neoprene production **(Polymers and Resins I)** | U | 9/5/96 | 4/23/12 |
| Nitrile butadiene rubber prod. **(Polymers and Resins I)** | U | 9/5/96 | 4/23/12 |
| Nitrile resins production **(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Non-nylon polyamides production **(Polymers and Resins I)** | W | 3/8/95 | 3/3/98 |
| Nutritional Yeast Manufacture | CCCC | 5/21/01 | 5/21/04 |
|  |  |  |  |
| Off-site Waste Recovery Operations | DD | 7/1/96 | 2/1/00 |
| Oil and natural gas production | HH | 6/17/99 | 6/17/02 |
| Organic liquids distribution (non-gasoline) | EEEE | 2/3/04 | 2/3/07 |
| Oxybisphenoxarsine (OBPA)/1,3-diisocyanate production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
|  |  |  |  |
| Paper and other web surface coating | JJJJ | 12/4/02 | 12/4/05 |
| Petroleum refineries - catalytic cracking (fluid and other) units, catalytic reforming units, sulfur plant units, and associated bypass lines | UUU | 4/11/02 | 4/11/05 |
| Petroleum refineries - Other sources not distinctly listed | CC | 8/18/95 | 8/18/98 |
| Pharmaceuticals production | GGG | 9/21/98 | 9/21/01 |
| Phenolic resins production **(Polymers and Resins III)** | OOO | 1/20/00 | 1/20/03 |
| Phosphate fertilizers production | BB | 6/10/99 | 6/10/02 |
| Phosphoric acid manufacturing | AA | 6/10/99 | 6/10/02 |
| Photographic chemicals production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Phthalate plasticizers production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Plastic parts and products surface coating | PPPP | 4/19/04 | 4/19/07 |
| Plywood & composite wood products (formerly Plywood and Particle Board Manufacturing) | DDDD | 7/30/04 | 10/1/07 |
| Polyether polyols production | PPP | 6/1/99 | 6/1/02 |
| Polybutadiene rubber production **(Polymers and Resins I)** | U | 9/5/96 | 7/31/97 |
| Polycarbonates production **(Generic MACT)** | YY | 6/29/99 | 6/29/02 |
| Polyester resins production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Polyethylene terephthalate production **(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Polymerized vinylidene chloride production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Polymethyl methacrylate resins production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Polystyrene production **(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Polysulfide rubber production **(Polymers and Resins I)** | U | 9/5/96 | 7/31/97 |
| Polyvinyl acetate emulsions production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Polyvinyl alcohol production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Polyvinyl butyral production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
| Polyvinyl chloride and copolymers production | J | 7/10/02 | 7/10/02 |
| Portland cement manufacturing | LLL | 6/14/99 | 6/10/02 |
| Primary aluminum production | LL | 10/7/97 | 10/7/99 |
| Primary copper smelting | QQQ | 6/12/02 | 6/12/05 |
| Primary lead smelting | TTT | 6/4/99 | 5/4/01 |
| Primary magnesium refining | TTTTT | 10/10/03 | 10/11/04 |
| Printing/publishing surface coating | KK | 5/30/96 | 5/30/99 |
| Process heaters **(Industrial Combustion Coordinating Rule)** | DDDDD | 9/13/04 | 9/13/07 |
| Publicly owned treatment works | VVV | 10/26/99 | 10/26/02 |
| Pulp and paper production (non-combust) MACT I | S | 4/15/98 | 4/15/01 |
| Pulp and paper production (combust) (Kraft, soda, sulfite) MACT II | MM | 1/12/01 | 1/12/04 |
| Pulp and paper production (non-chemical) MACT III | S | 4/15/98 | 4/16/01 |
|  |  |  |  |
| Quaternary ammonium compounds production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
|  |  |  |  |
| Rayon production**(Cellulose Production Manufacturing)** | UUUU | 6/11/02 | 6/11/05 |
| Reciprocating Internal Combustion Engines | ZZZZ | 6/15/04 | 6/15/07 |
| Refractory Products Manufacturing | SSSSS | 4/16/03 | 4/17/06 |
| Reinforced plastic composites production | WWWW | 4/21/03 | 4/21/06 |
| Rubber chemicals manufacturing **(MON)** | FFFF | 11/10/03 | 05/10/08 |
|  |  |  |  |
| 2,4- salts and esters production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Secondary aluminum production | RRR | 3/23/00 | 3/24/03 |
| Secondary lead smelting | X | 6/23/95 | 6/23/97 |
| Semiconductor manufacturing | BBBBB | 5/22/03 | 5/22/06 |
| Shipbuilding and ship repair surface coating | II | 12/15/95 | 12/16/96 |
| Site remediation | GGGGG | 10/8/03 | 10/9/06 |
| Sodium pentachlorophenate production **(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
| Spandex production **(Generic MACT)** | YY | 7/12/02 | 7/12/05 |
| Stationary combustion turbines  | YYYY | 3/5/04 | 3/5/07 |
| Steel pickling – HCL process | CCC | 6/22/99 | 6/22/01 |
| Styrene-acrylonitrile production **(Polymers and Resins IV)** | JJJ | 9/12/96 | 7/31/97 |
| Styrene-butadiene rubber and latex prod. **(Polymers and Resins I)** | U | 9/5/96 | 7/31/97 |
| Symmetrical tetrachloropyridine production **(MON)** | FFFF | 11/10/03 | 05/10/08 |
|  |  |  |  |
| Taconite iron ore processing | RRRRR | 10/30/03 | 10/30/06 |
| Tetrahydrobenzaldehyde manufacture (formerly butadiene dimers production) | F | 5/12/98 | 5/12/01 |
| (Rubber) Tire manufacturing | XXXX | 7/9/02 | 7/11/05 |
| Tordon TM acid production**(Pesticide Active Ingredient Production)** | MMM | 6/23/99 | 12/23/03 |
|  |  |  |  |
| Vegetable oil production – solvent extraction | GGGG | 4/12/01 | 4/12/04 |
|  |  |  |  |
| Wood building products (surface coating) | QQQQ | 5/28/03 | 5/28/06 |
| Wood furniture (surface coating) | JJ | 12/7/95 | 11/21/97 |
| Wool fiberglass manufacturing | NNN | 6/14/99 | 6/14/02 |