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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | CH-07  Applicability of Part 63 NESHAP for amendments  Air Quality Permit Program  *Doc Type: Permit Application* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AQ Facility ID number: | |  | Agency Interest ID number: |  |
| Facility name: |  | | | |

1) Are there or will there be Hazardous Air Pollutants (HAPs) emissions (listed on Table A) from any source affected by the proposed project?

No. Done with this form. Answer “No” to question 3d on form *CH-03*.

Yes. Go on to question 2 of this form.

2) Are you proposing to install new HAP-emitting sources, or reconstruct existing equipment that will emit HAPs following the reconstruction? (This specifically means “reconstruction” as defined at 40 CFR § 63.2 – if you are modifying existing equipment without meeting the definition of “reconstruction,” you are not reconstructing existing equipment.)

No. Answer “No” to question 3d on form *CH-03*. Go on to question 11 of this form.

Yes. Go on to question 3 of this form.

3) Is the currently-permitted facility a major HAP source (considering potential emissions and all existing federally enforceable permit conditions)?

No. Go on to question 4.

Yes. Go to question 7.

4) Will the new or reconstructed unit(s) have the potential to emit 10 or more tons per year of any individual HAP, or 25 or more tons per year of total HAPs, before considering any limits the source may be subject to or limits you may propose later in this form?

No. Go on to question 5.

Yes. Go to question 6.

5) Will the facility as modified be a major source of HAP emissions after your proposed change, before considering any limiting conditions you may propose later in this form?

No. Go to question 10.

Yes. Go on to question 6.

6) It is possible to avoid becoming a major HAP source by proposing federally enforceable permit conditions to limit your potential HAP emissions from the entire facility (as modified) to less than 10 tons per year for each HAP and/or 25 tons per year for all HAPs combined. Do you want to accept permit limitations on HAPs to avoid becoming a major HAP source?

No. Go on to question 7.

Yes. **Briefly describe below the limitations** you would be willing to accept so that your facility-wide HAP emissions will be less than 10 tons per year for each HAP and less than 25 tons per year for all HAPs combined (use a separate sheet if needed). Description must include each hazardous air pollutant. Include your proposed limit, monitoring, recordkeeping, and reporting on form *CD-01*. You must answer “Yes” to question 6 on form *CH-03*.  
Then go to question 10 of this form.

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7) Will any of the new or reconstructed items be subject to any of the standards for major source categories listed in Table B? If yes, list them below. Will any existing, non-modified parts of the facility, or the facility as a whole, become subject to one or more of the standards listed in Table B? If so, and the standard is not already included in your existing permit, list them below. Complete the table for each source listed.

No. Go on to question 8 and answer “Yes.”

Yes. List the source categories applicable to each new, reconstructed, or existing HAP-emitting equipment.

|  |  |  |  |
| --- | --- | --- | --- |
| **Source** | **(N)ew, (R)econstructed, or (E)xisting? (Check one)** | **Applicable source category (subpart or title)** | **Compliance date (mm/dd/yyyy)** |
|  | N  R  E |  |  |
|  | N  R  E |  |  |
|  | N  R  E |  |  |
|  | N  R  E |  |  |

For each standard listed above, attach a copy of the standard with the applicable parts highlighted. Also attach a copy of Subpart A with the applicable portions highlighted. If the applicable standard offers more than one compliance option, make it clear which one you are choosing.   
Go on to question 8.

8) Will any of the new or reconstructed items **not** be subject to any of the standards for major source categories listed in Table B?

No. All of the new or reconstructed items are subject to a major source category and listed in Question 7.

Go on to question 11.

Yes. Some of the new or reconstructed items are not listed in Question 7. List them here. Go to Question 9.

|  |
| --- |
| **HAP-emitting units with no applicable source category in Table B.** |
|  |
|  |

9) Will any new equipment or processes listed in Question 8 meet any of the following descriptions of constructing or reconstructing a major source?

Construct a major source means

(1) To fabricate, erect, or install at any greenfield site a stationary source or group of stationary sources which is located within a contiguous area and under common control and which emits or has the potential to emit 10 tons per year of any HAP's or 25 tons per year of any combination of HAP, or

(2) To fabricate, erect, or install at any developed site a new process or production unit which in and of itself emits or has the potential to emit 10 tons per year of any HAP or 25 tons per year of any combination of HAP, unless the process or production unit satisfies criteria in paragraphs (2) (i) through (vi) of the definition of “construct a major source” in [40 CFR § 63.41](https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-B)

Reconstruct a major source means the replacement of components at an existing process or production unit that in and of itself emits or has that potential to emit 10 tons per year of any HAP or 25 tons per year of any combination of HAP, whenever (1) The fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable process or production unit; and (2) It is technically and economically feasible for the reconstructed major source to meet the applicable maximum achievable control technology emission limitation for new sources established under subpart B of 40 CFR part 63.

No. Answer “No” to question 3d on form *CH-03*. Go on to question 11 of this form.

Yes. For those units, you must propose a case-by-case Maximum Achievable Control Technology (MACT) determination meeting the requirements of 40 CFR § 63.43. Contact MPCA for information about proposing a case-by-case MACT determination for approval. Answer “Yes” to question 3d on form *CH-03*. Go on to question 11 of this form.

10) Some non-major HAP sources will be subject to requirements of area source NESHAPs. Will the proposed new or reconstructed units belong to any of the area source categories listed below?

No. Answer “No” to question 3d on Form CH-03. Go to question 11 of this form.

Yes. Place a check in the box next to that category, and read the specified NESHAP for source categories to determine all applicable requirements for area sources. Attach a copy of each applicable subpart of the NESHAP for area source categories, and highlight the applicable requirements in each applicable subpart. Also attach a copy of Subpart A with the applicable portions highlighted. Answer “No” to question 3d on form *CH-03*. Go on to question 11 of this form.

Acrylic and Modacrylic Fibers Production, 40 CFR § 63 subp. LLLLLL

Asphalt Processing and Asphalt Roofing Manufacturing, 40 CFR § 63 subp. AAAAAAA

Carbon Black Production, 40 CFR § 63 subp. MMMMMM

Chemical Manufacturing Area Sources, 40 CFR § 63 subp. VVVVVV

Chemical Manufacturing: Chromium Compounds, 40 CFR § 63 subp. NNNNNN

Chemical Preparations Industry, 40 CFR § 63 subp. BBBBBBB

Chromic acid anodizing (Chromium Electroplating), 40 CFR § 63 subp. N

Clay Ceramics Manufacturing, 40 CFR § 63 subp. RRRRRR

Commercial dry cleaning (Perc) transfer machines, 40 CFR § 63 subp. M

Commercial sterilization facilities, 40 CFR § 63 subp. O

Decorative chromium electroplating **(Chromium Electroplating)**, 40 CFR § 63 subp. N

Electric Arc Furnace Steelmaking Facilities, 40 CFR § 63 subp. YYYYY

Ferroalloys Production Facilities, 40 CFR § 63 subp. YYYYYY

Flexible Polyurethane Foam Production and Fabrication, 40 CFR § 63 subp. OOOOOO

Gasoline Dispensing Facilities, 40 CFR § 63 subp. CCCCCC

Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities, 40 CFR § 63 subp. BBBBBB

Glass Manufacturing, 40 CFR § 63 subp. SSSSSS

Gold Mine Ore Processing and Production, 40 CFR § 63 subp. EEEEEEE

Halogenated solvent cleaners (Degreasing Organic Cleaners), 40 CFR § 63 subp. T

Hard chromium electroplating (Chromium Electroplating), 40 CFR § 63 subp. N

Hospital Sterilizers using Ethylene Oxides, 40 CFR § 63 subp. WWWWW

Industrial, Commercial, and Institutional Boilers and Process Heaters – Area Sources. 40 CFR § 63 subp. JJJJJJ

Iron and Steel Foundries Area Sources, 40 CFR § 63 subp. ZZZZZ

Lead Acid Battery Manufacturing, 40 CFR § 63 subp. PPPPPP

Metal Fabrication and Finishing Sources, 40 CFR § 63 subp. XXXXXX

Nonferrous Foundries: Aluminum, Copper, and Other, 40 CFR § 63 subp. ZZZZZZ

Oil and natural gas production, 40 CFR § 63 subp. HH

Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR § 63 subp. HHHHHH

Paints and Allied Products Manufacturing, 40 CFR § 63 subp. CCCCCCC

Plating and Polishing Operations, 40 CFR § 63 subp. WWWWWW

Polyvinyl Chloride and Copolymers Production, 40 CFR § 63 subp. DDDDDD

Prepared Feeds Manufacturing, 40 CFR § 63 subp. DDDDDDD

Primary Copper Smelting, 40 CFR § 63 subp. EEEEEE

Primary Nonferrous Metals: Zinc, Cadmium, and Beryllium, 40 CFR § 63 subp. GGGGGG

Reciprocating Internal Combustion Engines, 40 CFR § 63 subp. ZZZZ

Secondary aluminum processing, 40 CFR § 63 subp. RRR

Secondary Copper Smelting, 40 CFR § 63 subp. FFFFFF

Secondary Nonferrous Metals Processing (Brass, Bronze, Magnesium, Zinc), 40 CFR § 63 subp. TTTTTT

Wood Preserving, 40 CFR § 63 subp. QQQQQQ

11) Have any incorporated NESHAPs been amended since your permit was last issued? This applies even if the units affected by this permit action are not subject to the updated NESHAP.

No. Done with this form.

Yes. Attach a copy of each applicable subpart of the NESHAP, and highlight the applicable requirements in each applicable subpart. Also attach a copy of Subpart A with the applicable portions highlighted. Clearly indicate to which unit(s) the highlighted subparts apply; if the same subpart applies differently to different units, provide separate highlighted copies for those units.

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

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

778505 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 0-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)either)

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 Epichlorohydin (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 Methozychlor

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-Tetrachloroene

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) 5

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

0 Glycol ethers 1

0 Lead compounds

0 Manganese compounds

0 Mercury compounds

0 Mineral fibers 2

0 Nickel compounds

0 Polycyclic organic matter 3

0 Radionuclides 4

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 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).

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

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

4 A type of atom which spontaneously undergoes radioactive decay.

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

(current as of date of form – see U.S. Environmental Protection Agency’s website at   
<https://www.epa.gov/technical-air-pollution-resources> for most current status)

| **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 | 11/10/06 |
| Amino resins production(Polymers and Resins III) | OOO | 1/20/00 | 1/20/03 |
| Ammonium sulfate production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Asphalt/coal tar application - metal pipes | MMMM | 01/02/04 | 01/02/07 |
| Asphalt Roofing and Processing | 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 | 11/10/06 |
| 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 | 3/5/97 |
|  |  |  |  |
| 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 | 11/10/06 |
| 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 |
| Clay Ceramics Manufacturing | KKKKK | 5/16/03 | 5/16/06 |
| Chelating agents production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Chlorinated paraffins production (MON) | FFFF | 11/10/03 | 11/10/06 |
| 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 | 4/14/03 | 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 |

| **Categories of major sources** | **Subpart** | **Rule promulgation date or scheduled promulgation date** | **Compliance date for existing sources**  (if applicable) |
| --- | --- | --- | --- |
| Engine Test Cells/Stands | PPPPP | 5/27/03 | 5/27/03 |
| Epichlorohydrin elastomers production(Polymers and Resins I) | U | 9/5/96 | 3/5/97 |
| 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 | 3/5/97 |
| Ethylidene norbomene production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Explosives production (MON) | FFFF | 11/10/03 | 11/10/06 |
| 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 | EEE | 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 | 11/10/06 |
| 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 | 3/5/97 |
|  |  |  |  |
| Industrial, Commercial, and Institutional Boilers and Process Heaters – Major Sources | DDDDD | 5/20/11 | 3/21/14 |
| Industrial Dry Cleaning (Dry Cleaning) | M | 9/22/93 | 12/20/93 |
| Industrial Cooling Towers | Q | 9/8/94 | 3/8/95 |
| Integrated Iron and Steel Manufacturing | FFFFF | 5/20/03 | 5/20/06 |
| Iron & 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 | 01/05/04 | 01/05/07 |
|  |  |  |  |
| Magnetic Tape Surface Coating | EE | 12/15/94 | 12/15/96 |
| Maleic anhydride copolymers production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Manufacture of paints, coating and adhesives (MON) | FFFF | 11/10/03 | 11/10/06 |
| 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 |
| Methylcellulose 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 |

| **Categories of major sources** | **Subpart** | **Rule promulgation date or scheduled promulgation date** | **Compliance date for existing sources**  (if applicable) |
| --- | --- | --- | --- |
| 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 | 01/02/04 | 01/02/07 |
| Municipal Solid Waste Landfills | AAAA | 1/16/03 | 1/16/04 |
|  |  |  |  |
| Natural gas transmission and storage | HHH | 6/17/99 | 6/17/02 |
| Neoprene production (Polymers and Resins I) | U | 9/5/96 | 3/5/97 |
| Nitrile butadiene rubber prod. (Polymers and Resins I) | U | 9/5/96 | 3/5/97 |
| 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 | 02/03/04 | 02/03/07 |
| Oxybisphenoxarsine (OBPA)/1,3-diisocyanate production (MON) | FFFF | 11/10/03 | 11/10/06 |
|  |  |  |  |
| Paper and other webs surface coating | JJJJ | 12/4/02 | 12/4/05 |
| Petroleum refineries - catalytic cracking (fluid and other) units, | UUU | 4/11/02 | 4/11/05 |
| catalytic reforming units, and sulfur plant units |  |  |  |
| 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 | 11/10/06 |
| Phthalate plasticizers production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Plastic parts and products surface coating | PPPP | 4/19/04 | 4/19/07 |
| Plywood & composite wood products | DDDD | 7/30/04 | 9/28/07 |
| Polyether polyols production | PPP | 6/1/99 | 6/1/02 |
| Polybutadiene rubber production (Polymers and Resins I) | U | 9/5/96 | 3/5/97 |
| Polycarbonates production (Generic MACT) | YY | 6/29/99 | 6/29/02 |
| Polyester resins production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polyethylene terephthalate production (Polymers and Resins IV) | JJJ | 9/12/96 | 7/31/97 |
| Polymerized vinylidene chloride production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polymethyl methacrylate resins production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polystyrene production (Polymers and Resins IV) | JJJ | 9/12/96 | 7/31/97 |
| Polysulfide rubber production (Polymers and Resins I) | U | 9/5/96 | 3/5/97 |
| Polyvinyl acetate emulsions production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polyvinyl alcohol production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polyvinyl butyral production (MON) | FFFF | 11/10/03 | 11/10/06 |
| Polyvinyl chloride and copolymers production | J | 7/10/02 | 7/10/05 |
| 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 |

| **Categories of major sources** | **Subpart** | **Rule promulgation date or scheduled promulgation date** | **Compliance date for existing sources**  (if applicable) |
| --- | --- | --- | --- |
| Printing/publishing | KK | 5/30/96 | 5/30/99 |
| 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 | 3/8/96 | 4/16/01 |
|  |  |  |  |
| Quaternary ammonium compounds production (MON) | FFFF | 11/10/03 | 11/10/06 |
|  |  |  |  |
| 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 | 11/10/06 |
|  |  |  |  |
| 2,4- salts and esters production (Pesticide Active Ingredient Production) | MMM | 6/23/99 | 12/23/03 |
| Secondary aluminum prod. | 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 | 10/08/03 | 10/09/06 |
| 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 | 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 | 3/5/97 |
| Symmetrical tetrachloropyridine production (MON) | FFFF | 11/10/03 | 11/10/06 |
|  |  |  |  |
| Taconite iron ore processing | RRRRR | 10/30/03 | 10/30/06 |
| Tetrahydrobenzaldehyde manufacture | F | 5/12/98 | 5/12/01 |
| Tire manufacturing | XXXX | 7/9/02 | 7/11/05 |
| TordonTM acid production  (Pesticide Active Ingredient Production) | MMM | 6/23/99 | 12/23/03 |
|  |  |  |  |
| Utility NESHAP | UUUUU | 2/16/12 | 4/16/15 |
|  |  |  |  |
| 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 | JJ | 12/7/95 | 11/21/97 |
| Wool fiberglass manufacturing | NNN | 6/14/99 | 6/14/02 |