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## **Rule Analysis and Checklist**

DRAFT

**Working title:** Ch. NR 407 rule cleanup

**Code citation(s):** ch. NR 407, various sections, may affect ch. NR 406.

- Removed note referencing indirect sources.
- Edited s. NR 407.02(4)27, Definition of Major Source.
- Added note to NR 407.02(6) Part 70 Source definition to clarify “once in always in.”
- Amended NR 407.04 to correct a reference.
- Removed NR 407.05 -Table 2, and all associated references to that table as it is outdated.
- Removed Methyl Ethyl Ketone (MEK) from NR 407.05 - Table 3, because it was removed from the Federal list for hazardous air pollutants.
- Removed references to Table 2 from NR 407.09.
- Edited NR 407.10(5)(b), (c), and (d) because of new application forms that combine revocation request with application.
- Removed NR 407.105(4)(f) because the section is out of date.
- Edited NR 407.105(6)(b) and (c) because of new application forms that combine revocation request with application.

**Other codes affected:** may affect ch. NR 406

**Objective:** to improve the operational efficiency of, and to simplify the permitting processes administered under, chs. NR 406 and NR 407, Wis. Adm. Code.

**Group lead:** Joe Brehm

**Subgroup members and affiliations:** Dave Seitz, TRC Environmental and Scott Suder, Wisconsin Paper Council.

**Problem being solved or issue being resolved:**

Cleanup of the rule to remove dated materials, correct mistakes and edit language for more clarity.

**Discuss how the proposed rule solves the problem or resolves the issue laid out above:**

The changes remove out of date material and clarify who is and is not subject to the standards.

**Describe facilities affected by the proposed rule (size, type, location, and approximate number):**

Chapters NR 406 and 407 affect all types and sizes of facilities. Potentially every facility in the state that needs any kind of permit or permit exemption will benefit from clarifying and cleaning up language in these rules.

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**Will emissions be affected by the proposed rule (increased or decreased)?**  Yes  No

**Discussion (list pollutants affected. If no change, say why):** The proposed changes clean up and clarify rule language and will not have an effect on emission rates. None of the proposed changes affects emission limits or emission thresholds.

**Discuss how the proposed rule improves operational efficiency and/or simplifies the air permitting process:**

The changes remove out of date material and clarify who is and is not subject to the standards.

**Discuss how the proposed rule assures the program remains consistent with the requirements of the Clean Air Act, 40 CFR Part 70, and the Wisconsin Statutes:**

Changes are of a cleanup and clarification nature. No changes are being proposed that are not allowed under the federal Clean Air Act. Some changes being proposed make the rule language more consistent with federal requirements.

**Discuss estimated resources needed for implementation for both DNR and affected facilities:**

Because changes are of a cleanup and clarification nature, very little work to implement these changes is anticipated.

**General discussion of why the rule is crafted as proposed, including any sticking points and how they were resolved, any other decision points, and why the final decision was made:**

**Legal review completed:**  Yes  No

**Discussion:** Preliminary legal review completed.

**Statutory changes required:**  Yes  No

**Discussion:** Changes are of a clean-up and clarifying nature and do not require any statutory changes.

**SIP revision required:**  Yes  No

**Discussion:** Ongoing. NR 407 is approved by EPA through a Program Approval rather than through the SIP, but some portions of ch. NR 407 are in the SIP.

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## **Attachment: Proposed Rule Language**

### **Chapter NR 407**

#### **OPERATION PERMITS**

The department proposes to remove the note from 407.01(1) as follows:

**NR 407.01 Applicability; purpose.** (1) APPLICABILITY. This chapter applies to all direct stationary sources which are required under s. 285.60, Stats., to obtain an operation permit. In accordance with s. 285.60 (6), Stats., sources of certain sizes and types are exempt under s. NR 407.03 from the requirement to obtain an operation permit.

~~Note: Operation permit application requirements for indirect sources are contained in ch. NR 411.~~

The department proposes to amend NR 407.02(4) as follows:

(4) “Major source” means any stationary source, or any group of stationary sources, that is located on one or more contiguous or adjacent properties, is under common control of the same person or persons under common control, belongs to a single major industrial grouping and that is described in par. (a), (b) or (c). For the purposes of defining “major source”, a stationary source or group of stationary sources shall be considered part of a single major industrial grouping if all of the pollutant emitting activities at the source or group of sources have the same 2–digit code as described in the Standard Industrial Classification Manual, 1987, incorporated by reference in s. NR 484.05.

(a) A stationary source that, for pollutants other than radionuclides, emits or has the potential to emit, in the aggregate, 10 tons per year (tpy) or more of any single hazardous air pollutant listed under section 112 (b) of the Act (42 USC 7412 (b)), 25 tpy or more of any combination of those hazardous air pollutants, or a lesser quantity as the administrator may establish by rule. Notwithstanding the preceding sentence, emissions from any oil or gas exploration or production well, with its associated equipment, and emissions from any pipeline compressor or pump station may not be aggregated with emissions from other similar units, whether or not the units are in a contiguous area or under common control, to determine whether the units or stations are major sources.

(b) A stationary source that directly emits, or has the potential to emit, 100 tpy or more of any air contaminant subject to regulation under the Act other than particulate matter. For particulate matter, a stationary source is a major source if it emits, or has the potential to emit, 100 tpy of PM<sub>10</sub>. The fugitive emissions of a stationary source may not be considered in determining whether it is a major source for the purposes of this definition, unless the source belongs to one of the following categories of stationary sources:

1. Coal cleaning plants with thermal dryers.
2. Kraft pulp mills.
3. Portland cement plants.
4. Primary zinc smelters.
5. Iron and steel mills.
6. Primary aluminum ore reduction plants.
7. Primary copper smelters.
8. Municipal incinerators capable of charging more than 250 tons of refuse per day.
9. Hydrofluoric, sulfuric or nitric acid plants.
10. Petroleum refineries.
11. Lime plants.

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12. Phosphate rock processing plants.
13. Coke oven batteries.
14. Sulfur recovery plants.
15. Carbon black plants, furnace process.
16. Primary lead smelters.
17. Fuel conversion plants.
18. Sintering plants.
19. Secondary metal production plants.
20. Chemical process plants. The chemical processing plants category does not include ethanol production facilities that produce ethanol by natural fermentation, as described by the 6-digit code of 312140 or 325193 in the North American Industry Classification System United States, 2007, incorporated by reference in s. NR 484.05(17).
21. Fossil-fuel boilers, or combination thereof, totaling more than 250 million British thermal units per hour heat input.
22. Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels.
23. Taconite ore processing plants.
24. Glass fiber processing plants.
25. Charcoal production plants.
26. Fossil-fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input.
27. ~~All~~ Any other stationary source ~~categories regulated on or after~~ category not included in subsds. 1. to 26. which as of August 7, 1980, by a standard promulgated is being regulated under section 111 or 112 of the Act (42 USC 7411 or 7412).

(c) A major stationary source as defined in part D of title I of the Act (42 USC 7501 to 7515), which is defined as:

1. For ozone nonattainment areas, sources with the potential to emit 100 tpy or more of volatile organic compounds or oxides of nitrogen in areas classified as “rural transport”, “marginal” or “moderate”, 50 tpy or more in areas classified as “serious”, 25 tpy or more in areas classified as “severe”, and 10 tpy or more in areas classified as “extreme”; except that the references in this paragraph to 100, 50, 25 and 10 tpy of nitrogen oxides do not apply with respect to any source for which the administrator has made a finding, under section 182 (f) (1) or (2) of the Act (42 USC 7511a (f) (1) or (2)), that requirements under section 182 (f) of the Act (42 USC 7511a (f)) do not apply.
2. For ozone transport regions established pursuant to section 184 of the Act (42 USC 7511c), sources with the potential to emit 50 tpy or more of volatile organic compounds.
3. For carbon monoxide nonattainment areas that are classified as “serious”, and in which stationary sources contribute significantly to carbon monoxide levels as determined under rules issued by the administrator, sources with the potential to emit 50 tpy or more of carbon monoxide.
4. For particulate matter (PM10) nonattainment areas classified as “serious”, sources with the potential to emit 70 tpy or more of PM10.

The department proposes to add a note to the definition in NR 407.02(6) to read as follows:

**(6)** (a) “Part 70 source” means any of the following stationary sources, except as provided in par. (b):

1. Any major source.
2. Any source subject to a standard, limitation or other requirement under section 111 of the Act (42 USC 7411).
3. Any source subject to a standard or other requirement under section 112 of the Act (42 USC 7412), except for a source subject solely to regulations or requirements under section 112(d)(5) or (r) of the Act (42 USC 741 (d)(5) or (r)).

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4. Any affected source.

(b) Notwithstanding par.(a), all sources listed in par. (a) 2. or 3. are not part 70 sources unless they are one of the following

1. Major sources.
2. Affected sources.
3. Solid waste incineration units required to obtain permits pursuant to section 129 (e) of the Act (42 USD 7429 (e)).

Note: Facilities subject to a standard or other requirement under section 112 of the Act (42 USC 7412), except for a source subject solely to regulations or requirements under section 112(d)(5) or (r) of the Act (42 USC 741 (d)(5) or (r)) remain a Part 70 source regardless of a reductions in potential emissions which would otherwise make them a non-Part 70 source.

The department proposes to amend 407.04 (1) as follows:

**NR 407.04 Permit application requirements.** The owner or operator of an air contaminant source which is not exempt under s. 285.60 (5), Stats., or s. NR 407.03 shall submit an operation permit application or renewal application, in accordance with s. NR 407.05, by the dates specified in this section:

(1) INITIAL FILING DATES. Except as provided under subs. (3) to ~~(6)~~ (7), the initial operation permit application shall be submitted by one of the following dates:

The department proposes to amend 407.05 as follows:

**NR 407.05 Applications and forms. (1)** Applications for operation permits and renewals of operation permits shall be made on forms supplied by the department for these purposes and supplemented with other materials as indicated on the forms. The forms may be supplied by the department in an electronic format, such as on a computer disk, or on line, if so requested by the applicant.

**Note:** Application forms may be obtained from the Department Regional Headquarters or Service Center offices or from the Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707-7921, Attention: operation permits. The internet web address is: <http://dnr.wi.gov/air/permits.html>.

(2) Application materials may be submitted on paper or in an electronic format. The applicant shall submit 2 copies of all forms and other required materials, as indicated on the forms, which are submitted on paper. The applicant shall submit one copy of all forms and other required materials, as indicated on the forms, which are submitted in an electronic format. These materials shall be submitted to the Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707-7921, Attention: Operation permits.

(3) The application forms shall be signed by a responsible official of the stationary source designated by the source for this purpose. In the case of an electronic format application, a form supplied with the electronic format shall be signed in accordance with this subsection and returned to the department with the electronic format application.

(4) The application shall contain all of the information required for the issuance of an operation permit. Except as provided in subs. (5) and (8), it shall include the following elements:

(a) Identifying information, including company name and address, and plant name and address if different from the company name or address, owner's name and agent, and operator if different from the owner, and names and telephone numbers of the plant manager and contact person.

(b) A description of the source's processes and products, by standard industrial classification code as described in the Standard Industrial Classification Manual, 1987, incorporated by reference in s. NR 484.05, including any processes and products associated with each alternate operating scenario identified by the source.

(c) The following emissions-related information:

1. The maximum theoretical emissions of all air contaminants from all emissions units, operations and activities except for those exempted under subd. 9. or 10. Fugitive emissions from emissions units, operations and

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activities shall be included in the permit application in the same manner as stack emissions, regardless of whether the source category in question is included in the list of sources contained in the definition of major source. Maximum theoretical fugitive emissions shall be calculated using average operating conditions and average weather conditions. Only sources that manufacture or treat pesticides, rodenticides, insecticides, herbicides, fungicides or pharmaceuticals shall include emissions of air contaminants identified as falling within these categories in ~~Table 2, or~~ Table 3 ~~for calendar years 2004 and later~~, in their permit applications. When preparing its application, the owner or operator of a facility may rely on information in an approved material safety data sheet. Trace contaminants need not be reported if they constitute less than 1% (10,000 parts per million) of the material, or 0.1% (1,000 parts per million) of the material if the air contaminant is listed with a control requirement in column (i) of Table A, B or C of s. NR 445.07, unless a hazardous air contaminant is formed in processing the material.

2. Identification and description of all emissions points in sufficient detail to determine the applicable requirements to be included in an operation permit.

3. Emission rates in tons per year and in terms necessary to demonstrate compliance with emission limitations consistent with the applicable reference test method.

4. The following information to the extent that it is needed to determine or regulate emissions: types and amounts of fuels used, types and amounts of raw materials used, production rates and operating schedules.

5. Identification and description of air pollution control equipment and compliance monitoring devices or activities.

6. Limitations on source operations and any applicable work practice standards which affect emissions of any air contaminants.

7. Other information necessary to determine any applicable requirement.

8. The calculations on which the information contained in subds. 1. to 7. is based.

9. The emissions units, operations and activities in subd. 9. a. to o. shall be listed in the application but are exempt from being further included in any application required under this chapter:

a. Any emissions unit, operation or activity that has, for each air contaminant, maximum theoretical emissions that are less than the level specified in ~~Table 2, or~~ Table 3 ~~for calendar years 2004 and later~~. Multiple emissions units, operations and activities that perform identical or similar functions shall be combined in determining the applicability of the exemption under this subparagraph.

b. If the maximum theoretical emissions of any air contaminants listed in ~~Table 2, or~~ Table 3 ~~for calendar years 2004 and later~~, from all emission units, operations or activities at a facility are less than 5 times the level specified in ~~Table 2, or~~ Table 3 ~~for calendar years 2004 and later~~, for those air contaminants, any emissions unit, operation or activity that emits only those air contaminants.

c. Maintenance of grounds, equipment and buildings, including lawn care, pest control, grinding, cutting, welding, painting, woodworking, general repairs and cleaning, but not including use of organic compounds as clean-up solvents.

d. Boiler, turbine, generator, heating and air conditioning maintenance.

e. Pollution control equipment maintenance.

f. Internal combustion engines used for warehousing and material transport, forklifts and courier vehicles, front end loaders, graders and trucks, carts and maintenance trucks.

g. Fire control equipment.

h. Janitorial activities.

i. Office activities.

j. Convenience water heating.

k. Convenience space heating units with heat input capacity of less than 5 million Btu per hour that burn gaseous fuels, liquid fuels or wood.

L. Fuel oil storage tanks with a capacity of 10,000 gallons or less.

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m. Stockpiled contaminated soils.

n. Demineralization and oxygen scavenging of water for boilers.

o. Purging of natural gas lines.

10. For any emissions unit, operation or activity that is included in the application, the applicant does not need to include information on any air contaminant if the maximum theoretical emissions of the air contaminant are less than the level for that air contaminant listed in ~~Table 2, or Table 3 for calendar years 2004 and later~~, or if the maximum theoretical emissions of any air contaminant listed in ~~Table 2, or Table 3 for calendar years 2004 and later~~, from all emission units, operations or activities at a facility are less than 5 times the level specified in ~~Table 2, or Table 3 for calendar years 2004 and later~~, for that air contaminant. Multiple emissions units, operations and activities that perform identical or similar functions shall be combined in determining the applicability of this exemption.

(d) The following air pollution control requirements:

1. Citation and description of all applicable requirements.

2. Description of or reference to any applicable test method for determining compliance with each applicable requirement.

(e) Other specific information that may be necessary to implement and enforce other requirements of the Act or to determine the applicability of the requirements.

(f) An explanation of any proposed exemptions from otherwise applicable requirements.

(g) Additional information necessary to define alternate operating scenarios pursuant to s. NR 407.09 (2) (b), or to define permit terms and conditions implementing the permit flexibility provisions of s. NR 407.025 or internal offset provisions of s. NR 425.05.

(h) A compliance plan that contains all of the following:

1. A description of the compliance status of the source with respect to all applicable requirements.

2. A description as follows:

a. For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with the requirements.

b. For applicable requirements that will become effective during the permit term, a statement that the source will meet the requirements on a timely basis.

c. For requirements for which a stationary source is not proposed to be in compliance at the time of permit issuance, a narrative description of how the source will achieve compliance with the requirements.

3. A compliance schedule as follows:

a. For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with the requirements.

b. For applicable requirements that will become effective during the permit term, a statement that the source will meet the requirements on a timely basis, unless a more detailed schedule is expressly required by the applicable requirement.

c. A compliance schedule for sources which are not proposed to be in compliance with all applicable requirements at the time of permit issuance. The schedule shall include a series of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule shall resemble and be at least as stringent as that contained in any judgment, judicial consent decree or stipulation or administrative order to which the source is subject.

4. A schedule for submission of progress reports, certified pursuant to par. (j), no less frequently than every 6 months for stationary sources which are not in compliance with all applicable requirements on the date of permit issuance.

5. For affected sources, the acid rain program compliance plan elements required under section 408 of the Act (42 USC 7651g) and s. NR 409.09.

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(i) Requirements for compliance certification, including the following:

1. A certification of the source’s compliance status with all applicable requirements by a responsible official consistent with par. (j).
2. A description of the methods used for determining compliance, including a description of monitoring, recordkeeping and reporting requirements and test methods.
3. A schedule for submission of compliance certifications during the permit term, to be submitted no less frequently than annually, or more frequently if specified by the underlying applicable requirement or by the department.
4. A statement indicating the source’s compliance status with any applicable enhanced monitoring and compliance certification requirements under section 114 (a) (3) of the Act (42 USC 7414 (a) (3)).

(j) Any application form, report or compliance certification submitted pursuant to this section shall require certification by a responsible official of the truth, accuracy and completeness of the submission. This certification and any other certification required under this chapter shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. (5) The applicant shall use nationally–standardized forms for the portions of permit applications and compliance plans related to acid rain program requirements, as required by regulations promulgated under the acid rain program.

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**Note:** These forms may be obtained from the Department Regional Headquarters or Service Center offices or from the Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707–7921, Attention: operations permits, or U. S. EPA, Region 5, 77 W Jackson Blvd, Chicago IL 60604.

(6) The applicant shall specifically identify all information in the permit application for which confidential status is sought and shall follow procedures in s. 285.70, Stats., and s. NR 2.19 to request confidential status for that information. In addition to the copies of the complete application required under sub. (2), an applicant requesting confidentiality shall also supply to the department 3 copies of the application with all confidential material deleted for forms and other materials which are submitted on paper. The applicant shall file one copy of all forms and other materials with all confidential material deleted if submitted in electronic format.

(7) Applications for general and registration operation permits shall be submitted on forms supplied by the department and shall include all information necessary to determine qualification for and ability to meet the applicable emission limitations and requirements of the general or registration operation permit.

(8) Notwithstanding sub. (4) (intro.), the initial applications for existing, non–part 70 sources submitted pursuant to s. NR 407.04 (1) and initial applications for new or modified sources for which no construction permit is required do not need to include the information in sub. (4) (d), (f), (h) and (i).

(9) An applicant who has failed to submit relevant facts or has submitted incorrect information in a permit application shall, after becoming aware of this fact, promptly submit the supplemental or corrected information. In addition, an applicant shall provide any additional information as necessary to address any requirements that become applicable after the date he or she filed a complete application, but prior to publication of a public notice under s. 285.62 (3) (c), Stats.

(10) All material statements, representations and certifications in a permit application shall be truthful.

**Table 2**  
**Levels Of Air Contaminants For Determining Need For Inclusion In Permit Applications**  
**for Calendar Years 2003 and Earlier**

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
Acetaldehyde	2, 3	75-07-0	2,000
Acetamide	2	60-35-5	2,000.0

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Acetic acid	3	64-19-7	1,825
Acetic anhydride	3	108-24-7	887
Acetonitrile	2,3	75-05-8	2,000.0
Acetophenone	2	98-86-2	2,000.0
2-Acetylaminofluorene	2	53-96-3	2,000.0
Acrolein	2,3	107-02-8	18.3
Acrylamide	2,3	79-06-1	21.0
Acrylic acid	2,3	79-10-7	2,000.0
Acrylonitrile	2,3	107-13-1	2.5
Adriamycin	3	23214-92-8	Group B Pharmaceutical
Aflatoxins	3	1402-68-2	2.5
Aldrin	3,6	309-00-2	18.3
Allyl alcohol	3	107-18-6	365.8
Allyl chloride	2,3	107-05-1	218.6
Aluminum alkyls	3	7429-90-5*	145.1
Aluminum pyro-powders	3	7429-90-5*	365.8
Aluminum soluble salts	3	7429-90-5*	145.1
2-Aminoanthraquinone	3	117-79-3	25.0
4-Aminobiphenyl	2,3	92-67-1	2.5
Amitrole	3,6	61-82-5	14.5
Ammonia	3	7664-41-7	1,314
Aniline	2,3	62-53-3	729.5
Anisidine	2,3	29191-52-4	25
o-Anisidine and o-anisidine hydrochloride	2,3	90-04-0*	25.0
Antimony & compounds, as Sb	2,3	7440-36-0*	35.7
ANTU	3,6	86-88-4	21.0
Arsenic and inorganic compounds, as As	2,3	7440-38-2*	2.5
Arsine	2,3	7784-42-1	14.5
Asbestos, all forms	2,3	1332-21-4*	2.5
Atrazine	3,6	1912-24-9	365.8
Azathioprine	3	446-86-6	Group A Pharmaceutical
Azinphos-methyl	3,6	86-50-0	14.5
Barium, soluble compounds, as Ba	3	7440-39-3*	35.7
Benomyl	3,6	17804-35-2	729.5
Benz(a)anthracene	3	56-55-3	Polycyclic Organic Matter
Benzene	2,3	71-43-2	30.0
Benzidine	2,3	92-87-5	0.2
Benzo(b)fluoranthene	2,3	205-99-2	Polycyclic Organic Matter
Benzo(a)pyrene	3	50-32-8	Polycyclic Organic Matter
Benzotrichloride	2,3	98-07-7	25.0

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Benzoyl peroxide	3	94-36-0	365.8
Benzyl chloride	2,3	100-44-7	365.8
Beryllium and beryllium compounds, as Be	2,3	7440-41-7*	2.5
Biphenyl	2,3	92-52-4	109.3
N,N-Bis-(2-chloroethyl)-2-naphthylamine (Chloronaphazine)	3	494-03-1	Group A Pharmaceutical
Bischloroethyl nitrosourea	3	154-93-8	Group B Pharmaceutical
Bis(chloromethyl) ether (BCME) and technical grade	2,3	542-88-1	0.01
Borates, tetra, sodium salts, decahydrate	3	1303-96-4*	365.8
Borates, tetra, sodium salts, pentahydrate	3	1303-96-4*	73.6
Boron tribromide	3	10294-33-4	444
Boron trifluoride	3	7637-07-2	132.5
Bromacil	3,6	314-40-9	729.5
Bromine	3	7726-95-6	50.5
Bromine pentafluoride	3	7789-30-2	50.5
Bromoform	2	75-25-2	2,000.0
1,3-Butadiene	2,3	106-99-0	2,000.0
1,4-Butanediol dimethanesulphonate (Mylaran)	3	55-98-1	Group A Pharmaceutical
2-Butoxyethanol (EGBE)	3	111-76-2	2,000.0
n-Butyl acrylate	3	141-32-2	2,000.0
n-Butyl alcohol	3	71-36-3	2,000.0
n-Butylamine	3	109-73-9	666.46
tert-Butyl chromate, as Cr	2,3	1189-85-1	0.01
n-Butyl glycidyl ether (BGE)	3	2426-08-6	2,000.0
n-Butyl lactate	3	138-22-7	1,824.9
o-sec-Butylphenol	3	89-72-5	2,000.0
p-tert-Butyltoluene	3	98-51-1	2,000.0
Cadmium and cadmium compounds, as Cd	2,3	7440-43-9*	2.5
Calcium cyanamide	2,3	156-62-7	35.7
Calcium hydroxide	3	1305-62-0	365.8
Calcium oxide	3	1305-78-8	145.1
Camphor (synthetic)	3	76-22-2	874.6
Caprolactam vapor	2,3	105-60-2	1,459.1
Captafol	3,6	2425-06-1	7.4
Captan	2,3,6	133-06-2	365.8
Carbaryl	2,3,6	63-25-2	365.8
Carbofuran	3,6	1563-66-2	7.4
Carbon black	3	1333-86-4	254.4
Carbon disulfide	2,3	75-15-0	2,000.0
Carbon monoxide	4	630-08-0	2,000.0
Carbon tetrabromide	3	558-13-4	103.0
Carbon tetrachloride	2,3,5	56-23-5	2.5
Carbonyl fluoride	3	353-50-4	365.8

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**Table 2**  
**Levels Of Air Contaminants For Determining Need For Inclusion In Permit Applications**  
**for Calendar Years 2003 and Earlier**

<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr)</b>
Carbonyl sulfide	2	463-58-4	2,000.0
Catechol (Pyrocatechol)	2,3	120-80-9	1,459
Cesium hydroxide	3	21351-79-4	145
Chloramben	2	133-90-4	2,000.0
Chlorambucil	3	305-03-3	Group A Pharmaceutical
Chlordane	2,3,6	57-74-9	35.7
Chlorinated camphene (Toxaphene)	2,3,6	8001-35-2	35.7
Chlorinated dioxins and furans (total equivalents)	4	*	0.00004
Chlorinated diphenyl oxide	3	55720-99-5	35.7
Chlorine	2,3	7782-50-5	218.6
Chlorine dioxide	3	10049-04-4	21.0
Chlorine trifluoride	3	7790-91-2	17.7
Chloroacetic acid	2	79-11-8	2,000.0
2-Chloroacetophenone	2	532-27-4	2,000.0
Chlorobenzene (Monochlorobenzene)	2,3	108-90-7	2,000.0
Chlorobenzilate	2	510-15-6	2,000.0
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	3	13010-47-4	Group B Pharmaceutical
Chlorofluorocarbon-11 (CFC-11, R-11, Trichlorofluoromethane)	5	75-69-4	2,000.0
Chlorofluorocarbon-12 (CFC-12, R-12, Dichlorodifluoromethane)	5	75-71-8	2,000.0
Chlorofluorocarbon-13 (CFC-13, R-13, Chlorotrifluoromethane)	5	75-72-9	2,000.0
Chlorofluorocarbon-111 (CFC-111)	5	954-56-3	2,000.0
Chlorofluorocarbon-112 (CFC-112)	5	76-12-0	2,000.0
Chlorofluorocarbon-113 (CFC-113, R-113, Trichlorotrifluoroethane)	5	76-13-1	2,000.0
Chlorofluorocarbon-114 (CFC-114, R-114, Dichlorotetrafluoroethane)	5	76-14-2	2,000.0
Chlorofluorocarbon-115 (CFC-115, R-115, Monochloropentafluoroethane)	5	76-15-3	2,000.0
Chlorofluorocarbon-211 (CFC-211, R-211)	5	422-78-6	2,000.0
Chlorofluorocarbon-212 (CFC-212, R-212)	5	3182-26-1	2,000.0
Chlorofluorocarbon-213 (CFC-213, R-213)	5	2354-06-5	2,000.0
Chlorofluorocarbon-214 (CFC-214, R-214)	5	29255-31-0	2,000.0
Chlorofluorocarbon-215 (CFC-215, R-215)	5	4259-43-2	2,000.0
Chlorofluorocarbon-216 (CFC-216, R-216)	5	661-97-2	2,000.0
Chlorofluorocarbon-217 (CFC-217, R-217)	5	422-86-6	2,000.0
Chloroform	2,3	67-66-3	25.0
Chloromethyl methyl ether (CMME)	2,3	107-30-2	0.01
1-Chloro-1-nitropropane	3,6	600-25-9	729.5
Chloropicrin (Trichloronitromethane)	3,6	76-06-2	50.5
β-Chloroprene	2,3	126-99-8	2,000.0

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**for Calendar Years 2003 and Earlier**

<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr)</b>
o-Chlorostyrene	3	2039-87-4	2,000.0
o-Chlorotoluene	3	95-49-8	2,000.0
Chlorpyrifos	3,6	2921-88-2	14.5
Chromium (II) compounds, as Cr	2,3	7440-47-3*	35.7
Chromium (III) compounds, as Cr	2,3	7440-47-3*	35.7
Chromium (VI) compounds, as Cr, water soluble	2,3	7440-47-3*	3.6
Chromium (VI) compounds, as Cr, water insoluble	2,3	7440-47-3*	0.2
Chromium (metal)	2,3	7440-47-3	35.7
Chromyl chloride, as Cr	2,3	14977-61-8	0.01
Cobalt, as Co, metal, dust	2,3	7440-48-4	3.6
Coke oven emissions	2,3	*	2.5
Copper, dust & mists, as Cu	3	7440-50-8	73.6
p-Cresidine	3	120-71-8	25.0
Cresol, all isomers	2,3	1319-77-3	1,604
m-Cresol	2	108-39-4	2,000.0
o-Cresol	2	95-48-7	2,000.0
p-Cresol	2	106-44-5	2,000.0
Crotonaldehyde	3	123-73-9*	588.7
Crotonate	3,6	299-86-5	365.8
Cumene	2,3	98-82-8	2,000.0
Cyanamide	3	420-04-2	145.1
Cyanides, (inorganics), as CN	2,3	143-33-9*	365.8
Cyanogen	3	460-19-5	1,459.1
Cyanogen chloride	3	506-77-4	27.3
Cyclohexanol	3	108-93-0	2,000.0
Cyclohexanone	3	108-94-1	2,000.0
Cyclohexylamine	3	108-91-8	2,000.0
Cyclopentadiene	3	542-92-7	2,000.0
Cyclophosphamide	3	50-18-0	Group A Pharmaceutical
Cyhexatin	3,6	13121-70-5	365.8
2,4-D, salts and esters	2	94-75-7	2,000.0
DDE	2	3547-04-4	2,000.0
Dacarbazine	3	4342-03-4	Group B Pharmaceutical
Demeton	3,6	8065-48-3	7.4
Diacetone alcohol	3	123-42-2	2,000.0
2,4-Diamineanisole sulfate	3	39156-41-7	25.0
2,4-Diaminotoluene	2,3	95-80-7*	25.0
Diazinon	3,6	333-41-5	7.4
Diazomethane	2,3	334-88-3	29.4
Dibenz(a,h)acridine	2,3	226-36-8	Polycyclic Organic Matter
Dibenz(a,j)acridine	2,3	224-42-0	Polycyclic Organic Matter

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<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr)</b>
Dibenz(a,h)anthracene	2,3	53-70-3	Polycyclic Organic Matter
7H-Dibenzo(c,g)carbazole	2,3	194-59-2	Polycyclic Organic Matter
Dibenzofurans	2	132-64-9	2,000.0
Dibenzo(a,h)pyrene	2,3	189-64-0	Polycyclic Organic Matter
Dibenzo(a,i)pyrene	2,3	189-55-9	Polycyclic Organic Matter
Diborane	3	19287-45-7	7.4
1,2-Dibromo-3-chloropropane (DBCP)	2,3	96-12-8	25.0
1,2-Dibromoethane (EDB)	2,3	106-93-4	25.0
2-N-Dibutylaminoethanol	3	102-81-8	1,022
Dibutyl phthalate	2,3,6	84-74-2	365.8
o-Dichlorobenzene	3	95-50-1	2,000.0
p-Dichlorobenzene	2,3	106-46-7	2,000
3,3'-Dichlorobenzidine	2,3	91-94-1	25.0
1,3-Dichloro-5,5-dimethylhydantoin	3	118-52-5	14.5
1,1-Dichloroethane	2,3	75-34-3	2,000.0
1,2-Dichloroethane (EDC)	2,3	107-06-2	2.5
1,2-Dichloroethylene	3	540-59-0	2,000.0
Dichloroethyl ether	2,3	111-44-4	2,000.0
1,1-Dichloro-1-nitroethane	3	594-72-9	729.5
1,3-Dichloropropene	2,3,6	542-75-6	365.8
2,2-Dichloropropionic acid	3,6	75-99-0	437.3
Dichlorvos	2,3,6	62-73-7	73.6
Dicrotophos	3,6	141-66-2	18.3
Dicyclopentadiene	3	77-73-6	2,000.0
Dieldrin	3,6	60-57-1	18.3
Diethanolamine	2,3	111-42-2	1,095
Diethylamine	3	109-89-7	2,000.0
2-Diethylaminoethanol	3	100-37-8	2,000.0
Diethylene triamine	3	111-40-0	292.2
Di(2-ethylhexyl) phthalate (DEHP)	2,3	117-81-7	25.0
Diethyl phthalate	3	84-66-2	365.8
Diethyl sulfate	2,3	64-67-5	2.5
Diethylstilbestrol (DES)	3	56-53-1	Group A Pharmaceutical
Diglycidyl ether (DGE)	3	2238-07-5	35.7
Diisobutyl ketone	3	108-83-8	2,000.0
Diisopropylamine	3	108-18-9	1,459
3,3'-Dimethoxybenzidine (o-Dianisidine)	2,3	119-90-4	25.0
Dimethyl acetamide	3	127-19-5	2,000.0
Dimethylamine	3	124-40-3	1,314
4-Dimethylaminoazobenzene	2,3	60-11-7	25.0

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<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr)</b>
Dimethylaniline (N,N-Dimethylaniline)	2,3	121-69-7	1,825
3,3'-Dimethylbenzidine (o-Tolidine)	2,3	119-93-7	25.0
Dimethyl carbamoyl chloride	2,3	79-44-7	25.0
N,N-Dimethylformamide	2,3	68-12-2	2,000.0
1,1-Dimethylhydrazine	2,3	57-14-7	25.0
Dimethylphthalate	2,3	131-11-3	365.8
Dimethyl sulfate	2,3	77-78-1	2.5
Dinitrobenzene, all isomers	3	528-29-0*	73.6
Dinitro-o-cresol	2,3,6	534-52-1	14.5
2,4-Dinitrophenol	2	51-28-5	2,000.0
Dinitrotoluene	2,3	25321-14-6*	109.3
1,4-Dioxane	2,3	123-91-1	25.0
Dioxathion	3,6	78-34-2	14.5
Diquat	3,6	85-00-7*	35.7
Disulfoton	3,6	298-04-4	7.4
Divinyl benzene	3	1321-74-0*	2,000.0
Endosulfan	3,6	115-29-7	7.4
Endrin	3,6	72-20-8	7.4
Epichlorohydrin	2,3	106-89-8	30.0
EPN	3,6	2104-64-5	35.7
1,2-Epoxybutane (1,2-Butylene oxide)	2	106-88-7	2,000.0
Ethanolamine	3	141-43-5	584.5
Ethion	3,6	563-12-2	29.4
2-Ethoxyethanol (EGEE)	3	110-80-5	655.9
2-Ethoxyethyl acetate (EGEEA)	3	111-15-9	1,969.9
Ethyl acrylate	2,3	140-88-5	1,459.1
Ethylamine (Ethanamine)	3	75-04-7	1,314.0
Ethyl amyl ketone	3	541-85-5	2,000.0
Ethyl benzene	2,3	100-41-4	2,000.0
Ethyl butyl ketone	3	106-35-4	2,000.0
Ethyl chloride (Chloroethane)	2	75-00-3	2,000.0
Ethylene chlorohydrin	3	107-07-3	132.5
Ethylenediamine	3	107-15-3	1,824.9
Ethylene glycol-vapor	2,3	107-21-1	2,000.0
Ethylene oxide	2,3	75-21-8	2.5
Ethylene thiourea	2,3	96-45-7	25.0
Ethylenimine (Aziridine)	2,3	151-56-4	73.6
Ethylidene norbornene	3	16219-75-3	1,110.1
N-Ethylmorpholine	3	100-74-3	1,677.7
Ethyl silicate	3	78-10-4	2,000.0
Fensulfothion	3,6	115-90-2	7.4
Fenthion	3,6	55-38-9	14.5
Fine mineral fibers (includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers))	2	‡	2,000.0

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of average diameter 1 micrometer or less)			
Fluorides, (inorganics), as F	3	*	182.9
Fluorine	3	7782-41-4	145.1
Fonofos	3,6	944-22-9	7.4
Formaldehyde	2,3	50-00-0	25.0
Furfural	3	98-01-1	584.5
Furfuryl alcohol	3	98-00-0	2,000.0
Germanium tetrahydride	3	7782-65-2	44.2
Glycidol	3	556-52-5	2,000.0
Glycol ethers <sup>8</sup>	2	*	2,000.0
Group A Pharmaceuticals (a total of all air contaminants listed as Group A Pharmaceuticals)	3	*	2.5 <sup>11</sup>
Group B Pharmaceuticals (a total of all air contaminants listed as Group B Pharmaceuticals)	3	*	25 <sup>11</sup>
Halon-1211	5	353-59-3	2,000.0
Halon-1301	5	75-63-8	2,000.0
Halon-2402	5	124-73-2	2,000.0
Heptachlor	2,3,6	76-44-8	35.7
Hexachlorobenzene (HCB)	2,3	118-74-1	2.5
Hexachlorobutadiene	2,3,6	87-68-3	9.2
Hexachlorocyclopentadiene	2,3,6	77-47-4	7.4
Hexachloroethane	2	67-72-1	2,000.0
Hexachloronaphthalene	3	1335-87-1	14.5
Hexamethylene-1,6-diisocyanate	2	822-06-0	2,000.0
Hexamethyl phosphoramidate	2,3	680-31-9	25.0
n-Hexane	2,3	110-54-3	2,000.0
sec-Hexyl acetate	3	108-84-9	2,000.0
Hexylene glycol	3	107-41-5	2,000.0
Hydrazine and hydrazine sulfate	2,3	302-01-2*	25.0
Hydrazobenzene	2,3	122-66-7	25.0
Hydrochlorofluorocarbon-21 (HCFC-21)	5	75-43-4	2,000.0
Hydrochlorofluorocarbon-22 (HCFC-22, R-22)	5	75-45-6	2,000.0
Hydrochlorofluorocarbon-31 (HCFC-31)	5	593-70-4	2,000.0
Hydrochlorofluorocarbon-121 (HCFC-121)	5	*	2,000.0
Hydrochlorofluorocarbon-122 (HCFC-122)	5	*	2,000.0
Hydrochlorofluorocarbon-123 (HCFC-123, R-123)	5	306-83-2*	2,000.0
Hydrochlorofluorocarbon-124 (HCFC-124, R-124)	5	63938-10-3*	2,000.0
Hydrochlorofluorocarbon-131 (HCFC-131)	5	*	2,000.0
Hydrochlorofluorocarbon-132b (HCFC-132b)	5	1649-08-7	2,000.0
Hydrochlorofluorocarbon-133a (HCFC-133a)	5	75-88-7	2,000.0
Hydrochlorofluorocarbon-141b (HCFC-141b, R-141b)	5	1717-00-6	2,000.0
Hydrochlorofluorocarbon-142b (HCFC-142b, R-142b)	5	75-68-3	2,000.0
Hydrochlorofluorocarbon-221 (HCFC-221)	5	*	2,000.0
Hydrochlorofluorocarbon-222 (HCFC-222)	5	*	2,000.0

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<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr)</b>
Hydrochlorofluorocarbon-223 (HCFC-223)	5	*	2,000.0
Hydrochlorofluorocarbon-224 (HCFC-224)	5	*	2,000.0
Hydrochlorofluorocarbon-225ca (HCFC-225ca)	5	422-56-0	2,000.0
Hydrochlorofluorocarbon-225cb (HCFC-225cb)	5	507-55-4	2,000.0
Hydrochlorofluorocarbon-226 (HCFC-226)	5	*	2,000.0
Hydrochlorofluorocarbon-231 (HCFC-231)	5	*	2,000.0
Hydrochlorofluorocarbon-232 (HCFC-232)	5	*	2,000.0
Hydrochlorofluorocarbon-233 (HCFC-233)	5	*	2,000.0
Hydrochlorofluorocarbon-234 (HCFC-234)	5	*	2,000.0
Hydrochlorofluorocarbon-235 (HCFC-235)	5	*	2,000.0
Hydrochlorofluorocarbon-241 (HCFC-241)	5	*	2,000.0
Hydrochlorofluorocarbon-242 (HCFC-242)	5	*	2,000.0
Hydrochlorofluorocarbon-243 (HCFC-243)	5	*	2,000.0
Hydrochlorofluorocarbon-244 (HCFC-244)	5	*	2,000.0
Hydrochlorofluorocarbon-251 (HCFC-251)	5	*	2,000.0
Hydrochlorofluorocarbon-252 (HCFC-252)	5	*	2,000.0
Hydrochlorofluorocarbon-253 (HCFC-253)	5	*	2,000.0
Hydrochlorofluorocarbon-261 (HCFC-261)	5	*	2,000.0
Hydrochlorofluorocarbon-262 (HCFC-262)	5	*	2,000.0
Hydrochlorofluorocarbon-271 (HCFC-271)	5	*	2,000.0
Hydrogenated terphenyls	3	61788-32-7	365.8
Hydrogen bromide	3	10035-10-6	443.6
Hydrogen chloride	2, 3, 4	7647-01-0	311.2
Hydrogen cyanide	2, 3	74-90-8	443.6
Hydrogen fluoride	2, 3	7664-39-3	111.4
Hydrogen peroxide	3	7722-84-1	109.3
Hydrogen sulfide	3	7783-06-4	1,021.8
Hydroquinone	2, 3	123-31-9	145.1
2-Hydroxypropyl acrylate	3	999-61-1	218.6
Indeno(1,2,3-cd)pyrene	2, 3	193-39-5	Polycyclic Organic Matter
Indium	3	7440-74-6	7.4
Iodine	3	7553-56-2	44.2
Iron dextran complex	3	9004-66-4	Group B Pharmaceutical
Iron salts, soluble, as Fe	3	*	73.6
Isobutyl alcohol	3	78-83-1	2,000.0
Isooctyl alcohol	3	26952-21-6	2,000.0
Isophorone	2, 3	78-59-1	1,110.1
Isophorone diisocyanate	3	4098-71-9	6.5
Isopropoxyethanol	3	109-59-1	2,000.0
Isopropylamine	3	75-31-0	874.6
N-Isopropylaniline	3	768-52-5	729.5
Isopropyl glycidyl ether	3	4016-14-2	2,000.0

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Ketone	3	463-51-4	65.2
Lead compounds	2	7439-92-1*	2,000.0
Lindane and other hexachlorocyclohexane isomers	2,3	58-89-9*	2.5
Maleic anhydride	2,3	108-31-6	73.6
Manganese, as Mn, dust and compounds	2,3	7439-96-5*	222.9
Melphalan	3	148-82-3	Group A Pharmaceutical
Mercury alkyl compounds, as Hg	2,3	7439-97-6*	0.7
Mercury, all forms except alkyl, vapor, as Hg	2,3	7439-97-6*	3.6
Mercury aryl & inorganic compounds, as Hg	2,3	7439-97-6*	7.4
Mesityl oxide	3	141-79-7	2,000.0
Mestranol	3	72-33-3	Group B Pharmaceutical
Methacrylic acid	3	79-41-4	2,000.0
Methanol	2	67-56-1	2,000.0
Methomyl	3,6	16752-77-5	182.9
Methoxychlor	2	72-43-5	2,000.0
2-Methoxyethanol (EGME)	3	109-86-4	1,166.8
2-Methoxyethyl acetate (EGMEA)	3	110-49-6	1,751.3
4-Methoxyphenol	3	150-76-5	365.8
Methyl acrylate	3	96-33-3	2,000.0
Methylacrylonitrile	3	126-98-7	218.6
Methylamine	3	74-89-5	874.6
Methyl n-amyl ketone	3	110-43-0	2,000.0
N-Methyl aniline	3	100-61-8	145.4
Methyl bromide	2,3,6	74-83-9	1,459.4
Methyl n-butyl ketone	3	591-78-6	1,459.4
Methyl chloride	2,3	74-87-3	2,000.0
Methyl chloroform (1,1,1-Trichloroethane)	2	71-55-6	2,000.0
Methyl 2-cyanoacrylate	3	137-05-3	584.5
Methylcyclohexanol	3	25639-42-3	2,000.0
o-Methylcyclohexanone	3	583-60-8	2,000.0
Methyl demeton	3,6	8022-00-2	35.7
4,4'-Methylene bis(2-chloroaniline) (MOCA)	2,3	101-14-4	25.0
Methylene bis(4-cyclohexylisocyanate)	3	5124-30-1	3.9
Methylene bisphenyl isocyanate (MDI)	2,3	101-68-8	8.8
Methylene chloride	2,3	75-09-2	2,000.0
4,4'-Methylenedianiline (and dihydrochloride)	2,3	101-77-9*	25.0
Methyl ethyl ketone (2-Butanone) (MEK)	2	78-93-3	2,000.0
Methyl ethyl ketone peroxide	3	1338-23-4	67.3
Methyl formate	3	107-31-3	2,000.0
Methyl hydrazine	2,3	60-34-4	67.3
Methyl iodide	2,3	74-88-4	25.0
Methyl isoamyl ketone	3	110-12-3	2,000.0

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**Table 2**  
**Levels Of Air Contaminants For Determining Need For Inclusion In Permit Applications**  
**for Calendar Years 2003 and Earlier**

<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr)</b>
Methyl isobutyl carbinol	3	108-11-2	2,000.0
Methyl isobutyl ketone (MIBK)	2,3	108-10-1	2,000.0
Methyl isocyanate	2,3	624-83-9	3.6
Methyl methacrylate	2,3	80-62-6	2,000.0
Methyl parathion	3,6	298-00-0	14.5
α-Methyl styrene	3	98-83-9	2,000.0
Methyl tert-butyl ether (MTBE)	2	1634-04-4	2,000.0
Mevinphos (Phosdrin)	3,6	7786-34-7	7.4
Molybdenum, as Mo, soluble compounds	3	7439-98-7*	365.8
Monocrotophos	3,6	6923-22-4	18.3
Morpholine	3	110-91-8	2,000.0
Mustard gas	3	505-60-2	Group A Pharmaceutical
Naled	3,6	300-76-5	218.6
Naphthalene	2,3	91-20-3	2,000.0
2-Naphthylamine	3	91-59-8	2.5
Nickel compounds other than nickel subsulfide, as Ni	2,3	7440-02-0*	25.0
Nickel subsulfide	2,3	12035-72-2	2.5
Nitric acid	3	7697-37-2	365.8
p-Nitroaniline	3	100-01-6	218.6
Nitrobenzene	2,3	98-95-3	365.8
4-Nitrobiphenyl	2	92-93-3	2,000.0
p-Nitrochlorobenzene	3	100-00-5	46.6
Nitroethane	3	79-24-3	2,000.0
Nitrogen mustards (2,2'-Dichloro-N-methyldiethylamine)	3	51-75-2	Group B Pharmaceutical
Nitrogen oxides	1,4	*	2,000.0
Nitromethane	3	75-52-5	2,000.0
4-Nitrophenol	2	100-02-7	2,000.0
2-Nitropropane	2,3	79-46-9	25.0
Nitrosoamines (a total of all air contaminants listed as Nitrosoamines)	3	*	25 <sup>xx</sup>
N-Nitrosodi-n-butylamine	3	924-16-3	Nitrosoamine
N-Nitrosodiethanolamine	3	1116-54-7	Nitrosoamine
N-Nitrosodiethylamine	3	55-18-5	Nitrosoamine
N-Nitrosodimethylamine	2,3	62-75-9	Nitrosoamine
p-Nitrosodiphenylamine	3	156-10-5	Nitrosoamine
N-Nitrosodi-n-propylamine	3	621-64-7	Nitrosoamine
N-Nitroso-N-ethylurea	3	759-73-9	Nitrosoamine
N-Nitroso-N-methylurea	2,3	684-93-5	Nitrosoamine
N-Nitrosomethylvinylamine	3	4549-40-0	Nitrosoamine
N-Nitrosomorpholine	2,3	59-89-2	Nitrosoamine
N'-Nitrosornicotine	3	16543-55-8	Nitrosoamine
N-Nitrosopiperidine	3	100-75-4	Nitrosoamine
N-Nitrosopyrrolidine	3	930-55-2	Nitrosoamine

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N-Nitrososarcosine	3	13256-22-9	Nitrosoamine
Nitrotoluene, all isomers	3	99-08-1*	803.1
Octachloronaphthalene	3	2234-13-1	7.4
Oestradiol	3	50-28-2	Group B Pharmaceutical
Oxalic acid	3	144-62-7	73.6
Oxymetholone	3	434-07-1	Group B Pharmaceutical
Paraquat (respirable sizes)	3,6	1910-42-5*	7.4
Parathion	2,3,6	56-38-2	7.4
Particulate matter	4	*	2,000.0
PM <sub>10</sub>	1,4	*	2,000.0
Pentachloronaphthalene	3	1321-64-8	35.7
Pentachloronitrobenzene (Quintobenzene) (PCNB)	2	82-68-8	2,000.0
Pentachlorophenol (PCP)	2,3	87-86-5	35.7
Perchloroethylene (Tetrachloroethylene)	2,3	127-18-4	2,000.0
Perchloromethyl mercaptan	3	594-42-3	58.9
Phenazopyridine and phenazopyridine hydrochloride	3	136-40-3*	Group B Pharmaceutical
Phenol	2,3	108-95-2	1,385
Phenothiazine	3,6	92-84-2	365.8
p-Phenylenediamine	2,3	106-50-3	7.4
Phenyl ether vapor	3	101-84-8	510.9
Phenyl glycidyl ether (PGE)	3	122-60-1	437.3
Phenylhydrazine	3	100-63-0	766.1
Phenyl mercaptan	3	108-98-5	145.1
Phenytoin and sodium salt of phenytoin	3	57-41-0*	Group B Pharmaceutical
Phorate	3,6	298-02-2	3.6
Phosgene	2,3	75-44-5	29.4
Phosphine	2,3	7803-51-2	29.4
Phosphoric acid	3	7664-38-2	73.6
Phosphorus (yellow)	2,3	7723-14-0	7.4
Phosphorus oxychloride	3	10025-87-3	44.2
Phosphorus pentachloride	3	10026-13-8	73.6
Phosphorus pentasulfide	3	1314-80-3	73.6
Phosphorus trichloride	3	7719-12-2	109.3
Phthalic anhydride	2,3	85-44-9	437.3
Pindone	3,6	83-26-1	7.4
Platinum (metal)	3	7440-06-4	73.6
Platinum, soluble salts, as Pt	3	7440-06-4*	0.15
Polychlorinated biphenyls (PCB)	2,3	1336-36-3	0.01
Polycyclic Organic Matter (a total of all air contaminants listed as Polycyclic Organic Matter)	2,3	*	25 <sup>iii</sup>
Potassium hydroxide	3	1310-58-3	88.3

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Procarbazine and procarbazine hydrochloride	3	366-70-1*	Group-B Pharmaceutical
1,3-Propane sultone	2,3	4120-71-4	25.0
Propargyl alcohol	3	407-19-7	145.4
β-Propiolactone	2,3	57-57-8	25.0
Propionaldehyde	2	123-38-6	2,000.0
Propoxur	2,3,6	414-26-4	35.7
Propylene dichloride	2,3	78-87-5	2,000.0
Propylene glycol monomethyl ether (PGME)	3	407-98-2	2,000.0
Propylene oxide	2,3	75-56-9	25.0
Propylenimine	2,3	75-55-8	25.0
Propylthiouracil	3	51-52-5	Group-B Pharmaceutical
Pyrethrum	3,6	8003-34-7	365.8
Pyridine	3	110-86-4	1,095.4
Quinoline	2	91-22-5	2,000.0
Quinone	2,3,6	106-51-4	29.4
Reserpine	3	50-55-5	Group-B Pharmaceutical
Resorcinol	3	108-46-3	2,000.0
Rhodium (metal)	3	7440-16-6	73.6
Rhodium, soluble compounds, as Rh	3	7440-16-6*	0.74
Rotenone (commercial)	3,6	83-79-4	365.8
Selenium and compounds, as Se	2,3	7782-49-2*	14.5
Silicon tetrahydride (Silane)	3	7803-62-5	510.9
Sodium bisulfite	3	7631-90-5	365.8
Sodium fluoroacetate	3,6	62-74-8	3.6
Sodium hydroxide	3	1310-73-2	88.3
Stibine (Antimony hydride)	3,6	7803-52-3	35.7
Stoddard solvent (Mineral spirits)	3	8052-41-3	2,000.0
Streptozotocin	3	48883-66-4	Group-B Pharmaceutical
Strychnine	3,6	57-24-9	10.9
Styrene, monomer	2,3	100-42-5	2,000.0
Styrene oxide	2	96-09-3	2,000.0
Sulfotep (TEDP)	3,6	3689-24-5	14.5
Sulfur dioxide	1,4	7446-09-5	2,000.0
Sulfuric acid	3	7664-93-9	73.6
Sulfur monochloride	3	40025-67-9	267.0
Sulfur tetrafluoride	3	7783-60-0	17.7
Sulfonyl fluoride	3,6	2699-79-8	1459.4
Tellurium and compounds, as Te	3	13494-80-9*	7.4
TEPP	3,6	407-49-3	3.6
Terphenyls	3	26140-60-3	222.9
2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3	1746-01-6	0.00004

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1,1,2,2-Tetrachloroethane	2,3	79-34-5	510.9
Tetrachloronaphthalene	3	1335-88-2	145.1
Tetrahydrofuran	3	109-99-9	2,000.0
Thallium, soluble compounds, as Tl	3	7440-28-0*	7.4
Thionyl chloride	3	7719-09-7	222.9
Thiourea	3	62-56-6	25.0
Thiram	3,6	137-26-8	365.8
Tin (metal)	3	7440-31-5	145.1
Tin organic compounds, as Sn	3	7440-31-5*	7.4
Tin oxide & inorganic compounds, except SnH <sub>4</sub> , as Sn	3	7440-31-5*	145.1
Titanium tetrachloride	2	7550-45-0	2,000.0
Toluene (Toluol)	2,3	108-88-3	2,000.0
Toluene-2,4-diisocyanate (TDI)	2,3	584-84-9	2.9
m-Toluidine	3	108-44-1	656
o-Toluidine	2,3	95-53-4	2.5
Total reduced sulfur and reduced sulfur compounds	2	‡	2,000.0
Tributyl phosphate	3	126-73-8	182.9
1,2,4-Trichlorobenzene	2,3	120-82-1	1,774.4
1,1,2-Trichloroethane	2,3	79-00-5	2,000.0
Trichloroethylene	2,3	79-01-6	2,000.0
Trichloronaphthalene	3	1321-65-9	365.8
2,4,5-Trichlorophenol	2	95-95-4	2,000.0
2,4,6-Trichlorophenol	2	88-06-2	2,000.0
1,2,3-Trichloropropane	3	96-18-4	2,000.0
Triethylamine	2	121-44-8	2,000.0
Trifluralin	2	1582-09-8	2,000.0
Trimellitic anhydride	3	552-30-7	2.9
Trimethyl benzene, mixed isomers	3	25551-13-7	2,000.0
2,2,4-Trimethylpentane	2	540-84-1	2,000.0
Triorthoecresyl phosphate	3	78-30-8	7.4
Triphenyl phosphate	3	115-86-6	218.6
Tris(1-aziridinyl)phosphine sulfide	3	52-24-4	Group B Pharmaceutical
Tungsten - as W, insoluble compounds	3	7440-33-7*	365.8
Tungsten - as W, soluble compounds	3	7440-33-7*	73.6
Uranium (natural), soluble & insoluble compounds, as U	3	7440-61-1*	14.5
Urethane (Ethyl carbamate)	2,3	51-79-6	25.0
n-Valeraldehyde	3	110-62-3	2,000.0
Vinyl acetate	2,3	108-05-4	2,000.0
Vinyl bromide	2	593-60-2	2,000.0
Vinyl chloride	2,3	75-01-4	30.0
Vinyl cyclohexene dioxide	3	106-87-6	1,314.0
Vinylidene chloride	2,3	75-35-4	1,459.1

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Vinyl toluene	3	25013-15-4	2,000.0
Volatile organic compounds (Reactive organic gases)	4	*	2,000.0
Warfarin	3,6	81-81-2	7.4
Xylene, mixed isomers (Xylol)	2,3	1330-20-7	2,000.0
m-Xylene	2,3	108-38-3	2,000.0
o-Xylene	2,3	95-47-6	2,000.0
p-Xylene	2,3	106-42-3	2,000.0
m-Xylene- $\alpha,\alpha'$ -diamine	3	1477-55-0	4.4
Xylidine, mixed isomers	3	1300-73-8	182
Zirconium and compounds, as Zr	3	7440-67-7*	365.8

<sup>1</sup> Criteria pollutant or criteria pollutant precursor

<sup>2</sup> Federal hazardous air pollutant listed under section 112(b) of the Act

<sup>3</sup> State hazardous air pollutant

<sup>4</sup> Federal New Source Performance Standard

<sup>5</sup> Stratospheric ozone depleting substance

<sup>6</sup> Pesticides, rodenticides, insecticides, herbicides and fungicides

<sup>7</sup> The Chemical Abstract Service or CAS numbers refer to the unique chemical abstracts service registry number assigned to a specific chemical, isomer or mixture of chemicals or isomers and recorded in the CAS chemical registry system by the Chemical Abstracts Service, PO Box 3012, Columbus OH 42310, phone 1-800-848-5638 ext. 2308.

<sup>8</sup> 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' consists of carboxylic acid ester, sulfate, phosphate, nitrate or sulfonate.

\* Indicates contaminants for which multiple CAS numbers may apply. For contaminants listed as a metal and its compounds, the given CAS number refers to the metal.

\*\* For groups of air contaminants, the sum of the maximum theoretical emissions of all air contaminants in the group is used for comparison with the group inclusion level in Table 2. Each air contaminant in the group is listed alphabetically within the table.

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Acetaldehyde	2, 3	75-07-0	80.8
Acetamide	2	60-35-5	2,000
Acetic acid	3	64-19-7	1,155
Acetic anhydride	3	108-24-7	982
Acetonitrile	2, 3	75-05-8	2,000
Acetophenone	2	98-86-2	2,000
2-Acetylaminofluorene	2	53-96-3	2,000

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Acrolein	2, 3	107-02-8	15
Acrylamide	2, 3	79-06-1	0.137
Acrylic acid	2, 3	79-10-7	17.8
Acrylonitrile	2, 3	107-13-1	2.61
Adipic Acid	3	124-04-9	235
Adiponitrile	3	111-69-3	416
Adriamycin	3	23214-92-8	0.243
Aflatoxins	3	1402-68-2	0.243
Aldrin	3, 6	309-00-2	11.8
Allyl alcohol	3	107-18-6	55.9
Allyl chloride	2, 3	107-05-1	147
Allyl glycidyl ether	3	106-92-3	220
Aluminum alkyls and soluble salts, as Al	3	7429-90-5*	94.1
Aluminum pyro powders, as Al	3	7429-90-5*	235
o-Aminoazotoluene (2-Aminoazotoluene)	3	97-56-3	0.162
4-Aminobiphenyl	2, 3	92-67-1	0.0296
Amitrole	3, 6	61-82-5	0.658
Ammonia	3	7664-41-7	819
Ammonium perfluorooctanoate	3	3825-26-1	0.471
Aniline	2, 3	62-53-3	358
o-Anisidine and o-anisidine hydrochloride (mixtures and isomers)	2, 3	29191-52-4*	4.44
Antimony and compounds, as Sb	2, 3	7440-36-0*	23.5
Antimony trioxide	3	1309-64-4	3.55
ANTU	3, 6	86-88-4	14.1
Arsenic, elemental and inorganic compounds, as As	2, 3	7440-38-2*	0.0413
Arsine	2, 3	7784-42-1	0.888
Asbestos, all forms	2, 3	1332-21-4*	0.243
Atrazine	3, 6	1912-24-9	235
Azathioprine	3	446-86-6	0.348
Azinphos-methyl	3, 6	86-50-0	9.41
Barium, soluble compounds, as Ba	3	7440-39-3*	23.5
Benomyl	3, 6	17804-35-2	471
Benz(a)anthracene	3	56-55-3	1.62
Benzene	2, 3	71-43-2	22.8
Benzidine	2, 3	92-87-5	0.00265
Benzo(b)fluoranthene	2, 3	205-99-2	0.243
Benzo(j)fluoranthene	3	205-82-3	0.243
Benzo(k)fluoranthene	3	207-08-9	0.243
Benzo(a)pyrene	3	50-32-8	0.162
Benzotrichloride	2, 3	98-07-7	0.243
Benzoyl chloride	3	98-88-4	188
Benzoyl peroxide	3	94-36-0	235
Benzyl acetate	3	140-11-4	2,000

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Benzyl chloride	2, 3	100-44-7	244
Beryllium and beryllium compounds, as Be	2, 3	7440-41-7*	0.074
Biphenyl	2, 3	92-52-4	59.4
Bischloroethyl nitrosourea	3	154-93-8	0.243
N,N-Bis (2-chloroethyl)-2-naphthylamine (Chlornaphazine)	3	494-03-1	0.243
Bis(chloromethyl) ether (BCME) and technical grade	2, 3	542-88-1	0.243
Bis(2-dimethylaminoethyl) ether (DMAEE)	3	3033-62-3	15.4
Bismuth telluride, as Bi <sub>2</sub> Te <sub>3</sub> : Se-Doped	3	1304-82-1	235
Borates, tetra, sodium salts, decahydrate	3	1303-96-4*	235
Borates, tetra, sodium salts, pentahydrate	3	1303-96-4*	47.1
Boron tribromide	3	10294-33-4	670
Boron trifluoride	3	7637-07-2	181
Bromacil	3, 6	314-40-9	471
Bromine	3	7726-95-6	30.8
Bromine pentafluoride	3	7789-30-2	33.7
Bromodichloromethane	3	75-27-4	4.8
Bromoform	2, 3	75-25-2	243
1,3-Butadiene	2, 3	106-99-0	0.635
2-Butoxyethanol (Ethylene glycol monobutyl ether; EGBE; butyl cellosolve)	3	111-76-2	2,000
n-butyl alcohol (n-Butanol)	3	71-36-3	2,000
n-Butyl acrylate	3	141-32-2	493
n-Butylamine	3	109-73-9	978
Butylated hydroxyanisole (BHA)	3	25013-16-5	2,000
tert-Butyl chromate, as Cr	2, 3	1189-85-1	0.0148
n-Butyl glycidyl ether (BGE)	3	2426-08-6	2,000
n-Butyl lactate	3	138-22-7	1,407
o-sec-Butylphenol	3	89-72-5	1,446
p-tert-Butyltoluene	3	98-51-1	285
C.I. Basic Red 9 monohydrochloride	3	569-61-9	2.5
Cadmium and cadmium compounds, as Cd	2, 3	7440-43-9*	0.0987
Calcium cyanamide	2, 3	156-62-7	23.5
Calcium hydroxide	3	1305-62-0	235
Calcium oxide	3	1305-78-8	94.1
Camphor (synthetic)	3	76-22-2	586
Caprolactam (aerosol and vapor)	3	105-60-2	1,089
Captafol	3, 6	2425-06-1	4.71
Captan	2, 3, 6	133-06-2	235
Carbaryl	2, 3, 6	63-25-2	235
Carbofuran	3, 6	1563-66-2	4.71
Carbon monoxide	1	630-08-0	2,000
Carbon black	3	1333-86-4	165
Carbon disulfide	2, 3	75-15-0	1,465

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Carbon tetrabromide	3	558-13-4	63.8
Carbon tetrachloride	2, 3, 5	56-23-5	11.8
Carbonyl fluoride	3	353-50-4	254
Carbonyl sulfide	2	463-58-1	2,000
Catechol (Pyrocatechol)	2, 3	120-80-9	1,060
Refractory Ceramic Fibers (respirable size)	3	*	0.243
Cesium hydroxide	3	21351-79-1	94.1
Chloramben	2	133-90-4	2,000
Chlorambucil	3	305-03-3	0.00137
Chlordane	2, 3, 6	57-74-9	23.5
Chlorendic acid	3	115-28-6	6.83
Chlorinated camphene (Toxaphene)	2, 3, 6	8001-35-2	0.555
Chlorinated diphenyl oxide	3	55720-99-5	23.5
Chlorinated paraffins (C12; 60% chlorine)	3	108171-26-2*	7.11
Chlorine	2, 3	7782-50-5	68.2
Chlorine dioxide	3	10049-04-4	13
Chlorine trifluoride	3	7790-91-2	24.7
Chloroacetic acid	2	79-11-8	2,000
2-Chloroacetophenone	2, 3	532-27-4	14.9
Chlorobenzene (Monochlorobenzene)	2, 3	108-90-7	2,000
Chlorobenzilate	2	510-15-6	2,000
o- Chlorobenzylidene malononitrile	3	2698-41-1	25.2
1-Chloro-1,1-difluoroethane (Hydrochlorofluorocarbon-142b; HCFC-142b; R-142b)	3, 5	75-68-3	2,000
Chlorodifluoromethane (Hydrochlorofluorocarbon-22; HCFC-22; R-22)	3, 5	75-45-6	2,000
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	3	13010-47-4	0.243
Chlorofluorocarbon-11 (CFC-11; R-11; Trichlorofluoromethane)	5	75-69-4	2,000
Chlorofluorocarbon-111 (CFC-111)	5	954-56-3	2,000
Chlorofluorocarbon-112 (CFC-112)	5	76-12-0	2,000
Chlorofluorocarbon-113 (CFC-113; R-113; Trichlorotrifluoroethane)	5	76-13-1	2,000
Chlorofluorocarbon-114 (CFC-114; R-114; Dichlorotetrafluoroethane)	5	76-14-2	2,000
Chlorofluorocarbon-115 (CFC-115; R-115; Monochloropentafluoroethane)	5	76-15-3	2,000
Chlorofluorocarbon-12 (CFC-12; R-12; Dichlorodifluoromethane)	5	75-71-8	2,000
Chlorofluorocarbon-13 (CFC-13; R-13; Chlorotrifluoromethane)	5	75-72-9	2,000
Chlorofluorocarbon-211 (CFC-211; R-211)	5	422-78-6	2,000
Chlorofluorocarbon-212 (CFC-212; R-212)	5	3182-26-1	2,000
Chlorofluorocarbon-213 (CFC-213; R-213)	5	165-97-7	2,000
Chlorofluorocarbon-214 (CFC-214; R-214)	5	29255-31-0	2,000

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<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr unless otherwise noted)</b>
Chlorofluorocarbon-215 (CFC-215; R-215)	5	4259-43-2	2,000
Chlorofluorocarbon-216 (CFC-216; R-216)	5	661-97-2	2,000
Chlorofluorocarbon-217 (CFC-217; R-217)	5	422-86-6	2,000
Chloroform	2, 3	67-66-3	7.73
Chloromethyl methyl ether (CMME)	2, 3	107-30-2	0.243
1-Chloro-1-nitropropane	3, 6	600-25-9	476
Chloropicrin (Trichloronitromethane)	3, 6	76-06-2	31.6
beta-Chloroprene	2, 3	126-99-8	0.243
o-Chlorostyrene	3	2039-87-4	2,000
o-Chlorotoluene	3	95-49-8	2,000
Chlorpyrifos	3, 6	2921-88-2	9.41
Chromium (metal) and compounds other than Chromium (VI)	2, 3	7440-47-3*	23.5
Chromium (VI): Chromic acid mists and dissolved Cr (VI) aerosols, as Cr	2, 3	7440-47-3*	0.0148
Chromium (VI): compounds and particulates	2, 3	7440-47-3*	0.0148
Chromyl chloride, as Cr	2, 3	14977-61-8	0.0148
Cobalt, elemental, and inorganic compounds, as Co	2, 3	7440-48-4*	0.941
Coke oven emissions	2, 3	*	0.287
Copper and compounds, dusts and mists, as Cu	3	7440-50-8*	47.1
Copper and compounds, fume, as Cu	3	7440-50-8*	9.41
p-Cresidine	3	120-71-8	4.13
Cresol (mixtures and isomers)	2, 3	1319-77-3*	1,041
Crotonaldehyde	3	4170-30-3*	56.3
Crufomate	3, 6	299-86-5	235
Cumene (Isopropyl benzene)	2, 3	98-82-8	2,000
Cyanamide	3	420-04-2	94.1
Cyanides, (inorganics), as CN	2, 3	143-33-9*	327
Cyanogen	3	460-19-5	1,002
Cyanogen chloride	3	506-77-4	49.3
Cyclohexanol	3	108-93-0	2,000
Cyclohexanone	3	108-94-1	2,000
Cyclohexylamine	3	108-91-8	1,909
Cyclonite	3	121-82-4	23.5
Cyclopentadiene	3	542-92-7	2,000
Cyclophosphamide	3	50-18-0	1.05
Cyhexatin	3, 6	13121-70-5	235
2,4-D, salts and esters	2	94-75-7*	2,000
Dacarbazine	3	4342-03-4	0.0127
DDE	2	72-55-9	2,000
Demeton	3, 6	8065-48-3	4.97
Diacetone alcohol	3	123-42-2	2,000
2,4-Diaminoanisole sulfate	3	39156-41-7	48
2,4-Diaminotoluene (Toluene-2,4-diamine)	2, 3	95-80-7*	0.162

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Diazinon	3, 6	333-41-5	4.71
Diazomethane	2, 3	334-88-3	16.2
Dibenz(a,h)acridine	2, 3	226-36-8	1.62
Dibenz(a,i)acridine	2, 3	224-42-0	1.62
Dibenz(a,h)anthracene	2, 3	53-70-3	0.148
7H-Dibenzo(c,g)carbazole	2, 3	194-59-2	0.162
Dibenzofurans	2	132-64-9	2,000
Dibenzo(a,e)pyrene	2, 3	192-65-4	0.162
Dibenzo(a,h)pyrene	2, 3	189-64-0	0.0162
Dibenzo(a,i)pyrene	2, 3	189-55-9	0.0162
Dibenzo(a,l)pyrene	2, 3	191-30-0	0.0162
Diborane	3	19287-45-7	5.33
1,2-Dibromo-3-chloropropane (DBCP)	2, 3	96-12-8	0.0935
1,2-Dibromoethane (Ethylene dibromide; EDB)	2, 3	106-93-4	0.808
2-N-Dibutylaminoethanol	3	102-81-8	167
Dibutylphenyl phosphate	3	2528-36-1	165
Dibutyl phthalate (Di-n-butyl phthalate)	2, 3	84-74-2	235
o-Dichlorobenzene (1,2-Dichlorobenzene)	3	95-50-1	2,000
p-Dichlorobenzene (1,4-Dichlorobenzene)	2, 3	106-46-7	16.2
3,3'-Dichlorobenzidine	2, 3	91-94-1	0.523
1,3-Dichloro-5,5-dimethyl hydantoin	3	118-52-5	9.41
Dichlorodiphenyltrichloroethane (DDT)	3	50-29-3	1.83
1,1-Dichloroethane (Ethylidene dichloride)	2, 3	75-34-3	2,000
1,2-Dichloroethane (Ethylene dichloride; EDC)	2, 3	107-06-2	6.83
Dichloroethyl ether (Bis(2-chloroethyl)ether)	2, 3	111-44-4	1,376
1,2-Dichloroethylene	3	540-59-0	2,000
1,1-Dichloro-1-nitroethane	3	594-72-9	554
1,3-Dichloropropene	2, 3, 6	542-75-6	44.4
2,2-Dichloropropionic acid	3, 6	75-99-0	235
Dichlorvos	2, 3, 6	62-73-7	8.88
Dicrotophos	3, 6	141-66-2	11.8
Dicyclopentadiene	3	77-73-6	1,272
Dieldrin	3, 6	60-57-1	11.8
Diethanolamine	2, 3	111-42-2	94.1
Diethylamine	3	109-89-7	704
2-Diethylaminoethanol	3	100-37-8	451
Diethylene triamine	3	111-40-0	199
Diethyl hexyl phthalate (Bis(2-ethyl hexyl) phthalate; Di-sec-octyl phthalate; DEHP)	2, 3	117-81-7	235
Diethyl phthalate	3	84-66-2	235
Diethylstilbestrol (DES)	3	56-53-1	0.00178
Diethyl sulfate	2, 3	64-67-5	0.243
1,1-Difluoroethane	3	75-37-6	2,000
Diglycidyl ether (DGE)	3	2238-07-5	25

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Diglycidyl resorcinol ether	3	101-90-6	0.363
1,8-Dihydroxyanthraquinone (Danthron)	3	117-10-2	8.08
Diisobutyl ketone	3	108-83-8	2,000
Diisopropylamine	3	108-18-9	974
N,N-Dimethyl acetamide	3	127-19-5	1,677
Dimethylamine	3	124-40-3	434
4-Dimethylaminoazobenzene	2, 3	60-11-7	0.137
Dimethylaniline (N,N-Dimethylaniline)	2, 3	121-69-7	1,166
3,3'-Dimethylbenzidine (o-Tolidine)	2, 3	119-93-7	0.243
Dimethyl carbamoyl chloride	2, 3	79-44-7	0.048
Dimethylethoxysilane	3	14857-34-2	100
N,N-Dimethylformamide	2, 3	68-12-2	533
1,1-Dimethylhydrazine	2, 3	57-14-7	0.243
Dimethylphthalate	2, 3	131-11-3	235
Dimethyl sulfate	2, 3	77-78-1	0.243
Dinitolmide	3	148-01-6	235
Dinitrobenzene (mixtures and isomers)	3	528-29-0*	48.5
Dinitro-o-cresol (4,6-Dinitro-o-cresol)	2, 3, 6	534-52-1	9.41
2,4-Dinitrophenol	2	51-28-5	2,000
Dinitrotoluene (mixtures and isomers)	2, 3	25321-14-6*	9.41
1,4-Dioxane (1,4-Diethylene oxide)	2, 3	123-91-1	23.1
Dioxathion	3, 6	78-34-2	9.41
Diquat, respirable dust (various compounds) (Diquat dibromide)	3, 6	2764-72-9*	4.71
Diquat, total dust (various compounds) (Diquat dibromide)	3, 6	2764-72-9*	23.5
Direct black 38 (Benzidine-based dye)	3	1937-37-7	0.0846
Direct blue 6 (Benzidine-based dye)	3	2602-46-2	0.0846
Disperse Blue 1	3	2475-45-8	137
Disulfiram	3	97-77-8	94.1
Disulfoton	3, 6	298-04-4	4.71
Divinyl benzene (mixtures and isomers)	3	1321-74-0*	2,000
Endosulfan	3, 6	115-29-7	4.71
Endrin	3, 6	72-20-8	4.71
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	2, 3	106-89-8	17.8
EPN	3, 6	2104-64-5	4.71
1,2-Epoxybutane (1,2-Butylene oxide)	2, 3	106-88-7	355
Ethanolamine	3	141-43-5	353
Ethion	3, 6	563-12-2	18.8
2-Ethoxyethanol (Ethylene glycol monoethyl ether; EGEE; cellosolve)	3	110-80-5	867
2-Ethoxyethyl acetate (Ethylene glycol monoethyl ether acetate; EGEEA; cellosolve acetate)	3	111-15-9	1,272
Ethyl acrylate	2, 3	140-88-5	963
Ethylamine (Ethanamine)	3	75-04-7	434

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Ethyl amyl ketone	3	541-85-5	2,000
Ethyl benzene	2, 3	100-41-4	2,000
Ethyl bromide	3	74-96-4	1,049
Ethyl tert-butyl ether (ETBE)	3	637-92-3	983
Ethyl butyl ketone	3	106-35-4	2,000
Ethyl chloride (Chloroethane)	2, 3	75-00-3	2,000
Ethyl cyanoacrylate	3	7085-85-0	48.2
Ethylene chlorohydrin	3	107-07-3	215
Ethylenediamine	3	107-15-3	1,157
Ethylene glycol vapor and aerosol	2, 3	107-21-1	2,000
Ethylene oxide	2, 3	75-21-8	2.02
Ethylene thiourea	2, 3	96-45-7	13.7
Ethylenimine (Aziridine)	2, 3	151-56-4	41.5
Ethylidene norbornene	3	16219-75-3	1,608
N-Ethylmorpholine	3	100-74-3	1,108
Ethyl silicate	3	78-10-4	2,000
Fenamiphos	3	22224-92-6	4.71
Fensulfothion	3, 6	115-90-2	4.71
Fenthion	3, 6	55-38-9	9.41
Fine mineral fibers (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)	2	*	2,000
Flour Dust (inhalable fraction)	3	*	23.5
Fluorides, (inorganics), as F	3	*	118
Fluorine	3	7782-41-4	73.1
Fonofos	3, 6	944-22-9	4.71
Formaldehyde	2, 3	50-00-0	13.7
Formamide	3	75-12-7	867
Formic acid	3	64-18-6	443
Furan	3	110-00-9	0.243
Furfural	3	98-01-1	370
Furfuryl alcohol	3	98-00-0	1,888
Germanium tetrahydride	3	7782-65-2	29.5
Glutaraldehyde	3	111-30-8	13.4
Glycidol	3	556-52-5	0.243
Glycol ethers <sup>8</sup>	2	*	2,000
Graphite (all forms except graphite fiber)	3	7782-42-5*	94.1
Greenhouse gases	10	*	10,000 tpy on a carbon dioxide equivalent basis <sup>9</sup>
Halon-1211 (bromochlorodifluoromethane)	5	353-59-3	2,000
Halon-1301 (bromotrifluoromethane)	5	75-63-8	2,000
Halon-2402 (dibromotetrafluoroethane)	5	124-73-2	2,000
Heptachlor and heptachlor epoxide	2, 3, 6	76-44-8	2.35

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Hexachlorobenzene (HCB)	2, 3	118-74-1	0.0941
Hexachlorobutadiene	2, 3, 6	87-68-3	10
Hexachlorocyclopentadiene	2, 3, 6	77-47-4	5.25
Hexachloroethane	2	67-72-1	44.4
Hexachloronaphthalene	3	1335-87-1	9.41
Hexamethyl phosphoramidate	2, 3	680-31-9	0.243
Hexamethylene-1,6-diisocyanate (HDI)	2, 3	822-06-0	0.178
n-Hexane	2, 3	110-54-3	2,000
1,6- Hexanediamine	3	124-09-4	112
1-Hexene	3	592-41-6	2,000
sec-Hexyl acetate	3	108-84-9	2,000
Hexylene glycol	3	107-41-5	2,000
Hydrazine and hydrazine sulfate	2, 3	302-01-2*	0.0363
Hydrochlorofluorocarbon-121 (HCFC-121)	5	*	2,000
Hydrochlorofluorocarbon-122 (HCFC-122)	5	*	2,000
Hydrochlorofluorocarbon-123 (HCFC-123; R-123)	5	306-83-2*	2,000
Hydrochlorofluorocarbon-124 (HCFC-124; R-124)	5	63938-10-3*	2,000
Hydrochlorofluorocarbon-131 (HCFC-131)	5	*	2,000
Hydrochlorofluorocarbon-132b (HCFC-132b)	5	1649-08-7	2,000
Hydrochlorofluorocarbon-133a (HCFC-133a)	5	75-88-7	2,000
Hydrochlorofluorocarbon-141b (HCFC-141b; R-141b)	5	1717-00-6	2,000
Hydrochlorofluorocarbon-21 (HCFC-21; Dichlorofluoromethane)	5	75-43-4	2,000
Hydrochlorofluorocarbon-221 (HCFC-221)	5	*	2,000
Hydrochlorofluorocarbon-222 (HCFC-222)	5	*	2,000
Hydrochlorofluorocarbon-223 (HCFC-223)	5	*	2,000
Hydrochlorofluorocarbon-224 (HCFC-224)	5	*	2,000
Hydrochlorofluorocarbon-225ca (HCFC-225ca)	5	422-56-0	2,000
Hydrochlorofluorocarbon-225cb (HCFC-225cb)	5	507-55-1	2,000
Hydrochlorofluorocarbon-226 (HCFC-226)	5	*	2,000
Hydrochlorofluorocarbon-231 (HCFC-231)	5	*	2,000
Hydrochlorofluorocarbon-232 (HCFC-232)	5	*	2,000
Hydrochlorofluorocarbon-233 (HCFC-233)	5	*	2,000
Hydrochlorofluorocarbon-234 (HCFC-234)	5	*	2,000
Hydrochlorofluorocarbon-235 (HCFC-235)	5	*	2,000
Hydrochlorofluorocarbon-241 (HCFC-241)	5	*	2,000
Hydrochlorofluorocarbon-242 (HCFC-242)	5	*	2,000
Hydrochlorofluorocarbon-243 (HCFC-243)	5	*	2,000
Hydrochlorofluorocarbon-244 (HCFC-244)	5	*	2,000
Hydrochlorofluorocarbon-251 (HCFC-251)	5	*	2,000
Hydrochlorofluorocarbon-252 (HCFC-252)	5	*	2,000
Hydrochlorofluorocarbon-253 (HCFC-253)	5	*	2,000
Hydrochlorofluorocarbon-261 (HCFC-261)	5	*	2,000
Hydrochlorofluorocarbon-262 (HCFC-262)	5	*	2,000

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Hydrochlorofluorocarbon-271 (HCFC-271)	5	*	2,000
Hydrochlorofluorocarbon-31 (HCFC-31; R-31; Chlorofluoromethane)	5	593-70-4	2,000
Hydrogenated terphenyls	3	61788-32-7	232
Hydrogen bromide	3	10035-10-6	649
Hydrogen chloride (Hydrochloric acid; Muriatic acid)	2, 3, 4	7647-01-0	355
Hydrogen cyanide	2, 3	74-90-8	340
Hydrogen fluoride (Hydrofluoric acid)	2, 3	7664-39-3	161
Hydrogen peroxide	3	7722-84-1	65.5
Hydrogen sulfide	3	7783-06-4	656
Hydroquinone	2, 3	123-31-9	94.1
2-Hydroxypropyl acrylate	3	999-61-1	125
Indeno(1,2,3-cd)pyrene	2, 3	193-39-5	1.62
Indium	3	7440-74-6	4.71
Iodine	3	7553-56-2	67.9
Iron dextran complex	3	9004-66-4	0.243
Iron oxide dust and fume, as Fe	3	1309-37-1*	235
Iron salts, soluble, as Fe	3	*	47.1
Isobutyl alcohol	3	78-83-1	2,000
Isooctyl alcohol	3	26952-21-6	2,000
Isophorone	2, 3	78-59-1	1,849
Isophorone diisocyanate	3	4098-71-9	2.14
Isoprene	3	78-79-5	0.243
2-Isopropoxyethanol	3	109-59-1	2,000
Isopropylamine	3	75-31-0	569
Isopropyl glycidyl ether	3	4016-14-2	2,000
N-Isopropylaniline	3	768-52-5	520
Kaolin	3	1332-58-7	94.1
Kepone (Chlordecone)	3	143-50-0	0.0386
Ketene	3	463-51-4	40.5
Lead Acetate, as Pb	3	301-04-2	2.22
Lead compounds	2	7439-92-1*	2,000
Lead Phosphate, as Pb	3	7446-27-7	14.8
Lindane and other hexachlorocyclohexane isomers	2, 3	58-89-9*	0.573
Maleic anhydride	2, 3	108-31-6	18.9
Manganese, elemental and inorganic compounds, as Mn	2, 3	7439-96-5*	9.41
Melphalan	3	148-82-3	0.0048
Mercury, as Hg, alkyl compounds	2, 3	7439-97-6*	0.471
Mercury, as Hg, aryl compounds	2, 3	7439-97-6*	4.71
Mercury, as Hg, inorganic forms including metallic mercury	2, 3	7439-97-6*	1.18
Mesityl oxide	3	141-79-7	2,000
Mestranol	3	72-33-3	0.243
Methacrylic acid	3	79-41-4	2,000

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Methanol	2	67-56-1	2,000
Methomyl	3, 6	16752-77-5	118
Methoxychlor	2	72-43-5	2,000
2-Methoxyethanol (Methyl Cellosolve; EGME)	3	109-86-4	732
2-Methoxyethyl acetate (MethylCellosolve acetate; EGMEA)	3	110-49-6	1,137
4-Methoxyphenol	3	150-76-5	235
Methyl chloroform (1,1,1-Trichloroethane; TCA)	2	71-55-6	2,000
<del>Methyl ethyl ketone (2-Butanone; MEK)</del>	<del>2</del>	<del>78-93-3</del>	<del>2,000</del>
Methyl acrylate	3	96-33-3	331
Methylacrylonitrile	3	126-98-7	129
Methylamine	3	74-89-5	299
Methyl n-amyl ketone	3	110-43-0	2,000
N-Methyl aniline	3	100-61-8	103
Methyl bromide (Bromomethane)	2, 3, 6	74-83-9	88.8
Methyl n-butyl ketone	3	591-78-6	964
Methyl chloride (Chloromethane)	2, 3	74-87-3	2,000
5-Methyl chrysene	3	3697-24-3	0.162
Methyl 2-cyanoacrylate	3	137-05-3	42.8
Methylcyclohexanol	3	25639-42-3	2,000
o-Methylcyclohexanone	3	583-60-8	2,000
Methyl demeton	3, 6	8022-00-2	23.5
Methylene bisphenyl isocyanate (Methylene diphenyl isocyanate; MDI)	2, 3	101-68-8	2.41
Methylene chloride (Dichloromethane)	2, 3	75-09-2	378
4,4'-Methylene bis(2-chloroaniline) (MOCA)	2, 3	101-14-4	0.413
Methylene bis(4-cyclohexylisocyanate)	3	5124-30-1	2.52
4,4'-Methylenedianiline (and dihydrochloride)	2, 3	101-77-9*	0.386
Methyl ethyl ketone peroxide	3	1338-23-4	94.3
Methyl formate	3	107-31-3	2,000
Methyl hydrazine	2, 3	60-34-4	0.887
Methyl iodide (Iodomethane)	2, 3	74-88-4	546
Methyl isoamyl ketone	3	110-12-3	2,000
Methyl isobutyl carbinol	3	108-11-2	2,000
Methyl isobutyl ketone (MIBK; Hexone)	2, 3	108-10-1	2,000
Methyl isocyanate	2, 3	624-83-9	2.2
Methyl methacrylate	2, 3	80-62-6	2,000
N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)	3	70-25-7	0.074
Methyl parathion	3, 6	298-00-0	9.41
alpha-Methyl styrene	3	98-83-9	2,000
Methyl tert-butyl ether (MTBE)	2, 3	1634-04-4	2,000
Metribuzin	3	21087-64-9	235
Mevinphos (Phosdrin)	3, 6	7786-34-7	4.23
Mirex	3	2385-85-5	0.0348

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**Levels Of Air Contaminants For Determining Need For Inclusion In Permit Applications**  
**for Calendar Years 2004 and Later**

<b>Air Contaminant Name</b>	<b>Sources of Regulation (See Footnotes Below)</b>	<b>Chemical Abstract Service Number<sup>7</sup></b>	<b>Inclusion Level (lbs/yr unless otherwise noted)</b>
Molybdenum, as Mo, metal and insoluble compounds	3	7439-98-7*	471
Molybdenum, as Mo, soluble compounds	3	7439-98-7*	235
Monocrotophos	3, 6	6923-22-4	11.8
Morpholine	3	110-91-8	2,000
Mustard gas	3	505-60-2	0.243
Myleran (1,4-Butanediol dimethanesulphonate; Busulphan)	3	55-98-1	0.243
Naled	3, 6	300-76-5	141
Naphthalene	2, 3	91-20-3	2,000
2-Naphthylamine	3	91-59-8	0.243
Nickel and compounds, as Ni	2, 3	7440-02-0*	0.683
Nickel carbonyl, as Ni	3	13463-39-3	0.683
Nickel subsulfide, as Ni	2, 3	12035-72-2	0.37
Nitric acid	3	7697-37-2	243
Nitrilotriacetic acid	3	139-13-9	118
p-Nitroaniline	3	100-01-6	141
Nitrobenzene	2, 3	98-95-3	237
4-Nitrobiphenyl	2	92-93-3	2,000
p-Nitrochlorobenzene	3	100-00-5	30.3
Nitroethane	3	79-24-3	2,000
Nitrogen mustards (2,2'-Dichloro-N-methyldiethylamine)	3	51-75-2	0.243
Nitrogen oxides	1, 4	*	2,000
Nitromethane	3	75-52-5	2,000
4-Nitrophenol	2	100-02-7	2,000
1-Nitropropane	3	108-03-2	2,000
2-Nitropropane	2, 3	79-46-9	0.243
1-Nitropyrene	3	5522-43-0	1.62
N-Nitrosodi-n-butylamine	3	924-16-3	0.111
N-Nitrosodiethanolamine	3	1116-54-7	0.222
N-Nitrosodiethylamine	3	55-18-5	0.00413
N-Nitrosodimethylamine	2, 3	62-75-9	0.0127
N-Nitrosodi-n-propylamine	3	621-64-7	0.0888
N-Nitroso-N-ethylurea	3	759-73-9	0.0231
N-Nitroso-N-methylurea	2, 3	684-93-5	0.00523
N-Nitrosomethylvinylamine	3	4549-40-0	0.243
N-Nitrosomorpholine	2, 3	59-89-2	0.0935
N'-Nitrosornicotine	3	16543-55-8	0.243
N-Nitrosopiperidine	3	100-75-4	0.0658
N-Nitrosopyrrolidine	3	930-55-2	0.291
N-Nitrososarcosine	3	13256-22-9	0.243
Nitrotoluene (mixtures and isomers)	3	88-72-2*	528
Nitrous oxide	3	10024-97-2	2,000
Octachloronaphthalene	3	2234-13-1	4.71

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Oestradiol (Estradiol)	3	50-28-2	0.0162
Oxalic acid	3	144-62-7	47.1
P,p'-Oxybis(benzenesulfonyl hydrazide)	3	80-51-3	4.71
Paraquat (respirable sizes) (Paraquat chloride)	3, 6	1910-42-5*	4.71
Parathion	2, 3, 6	56-38-2*	4.71
Particulate matter	4	*	2,000
Pentachloronaphthalene	3	1321-64-8	23.5
Pentachloronitrobenzene (Quintobenzene; PCNB)	2, 3	82-68-8	23.5
Pentachlorophenol (PCP)	2, 3	87-86-5	23.5
Pentyl Acetate (mixtures and isomers)	3	628-63-7*	2,000
Perchloroethylene (Tetrachloroethylene)	2, 3	127-18-4	30.1
Perchloromethyl mercaptan	3	594-42-3	35.8
Perfluoroisobutylene	3	382-21-8	5.35
Persulfates (Ammonium, Potassium, Sodium)	3	7727-54-0*	4.71
Phenazopyridine and phenazopyridine hydrochloride	3	136-40-3*	3.63
Phenol	2, 3	108-95-2	906
Phenolphthalein	3	77-09-8	0.243
Phenothiazine	3, 6	92-84-2	235
Phenylenediamine (mixtures and isomers)	2, 3	106-50-3*	4.71
Phenyl ether vapor	3	101-84-8	328
Phenyl glycidyl ether (PGE)	3	122-60-1	28.9
Phenylhydrazine	3	100-63-0	20.8
Phenyl mercaptan	3	108-98-5	106
Phenytoin and sodium salt of phenytoin	3	57-41-0*	0.243
Phorate	3, 6	298-02-2	2.35
Phosgene	2, 3	75-44-5	19
Phosphine	2, 3	7803-51-2	19.6
Phosphoric acid	3	7664-38-2	47.1
Phosphorus (yellow)	2, 3	7723-14-0	4.77
Phosphorus oxychloride	3	10025-87-3	29.5
Phosphorus pentachloride	3	10026-13-8	40.1
Phosphorus pentasulfide	3	1314-80-3	47.1
Phosphorus trichloride	3	7719-12-2	52.9
Phthalic anhydride	2, 3	85-44-9	285
Picric acid	3	88-89-1	4.71
Pindone	3, 6	83-26-1	4.71
Platinum (metal)	3	7440-06-4	47.1
Platinum, soluble salts, as Pt	3	7440-06-4*	0.0941
PM10	1, 4	*	2,000
Polybrominated biphenyls (PBBs; Bromodiphenyls)	3	59536-65-1*	0.0207
Polychlorinated biphenyls (PCBs; Chlorodiphenyls; Arochlor)	2, 3	1336-36-3*	0.01
Potassium hydroxide	3	1310-58-3	131
Procarbazine and procarbazine hydrochloride	3	366-70-1*	0.0444

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1,3-Propane sultone	2, 3	1120-71-4	0.258
Propargyl alcohol	3	107-19-7	108
beta-Propiolactone	2, 3	57-57-8	0.0444
Propionaldehyde	2	123-38-6	2,000
Propionic acid	3	79-09-4	1,426
Propoxur (Baygon)	2, 3, 6	114-26-1	23.5
Propylene dichloride (1,2-Dichloropropane)	2, 3	78-87-5	71.1
Propylene glycol monomethyl ether (PGME)	3	107-98-2	2,000
Propylenimine (2-Methyl aziridine; propylene imine)	2, 3	75-55-8	0.243
Propylene oxide	2, 3	75-56-9	48
Propylthiouracil	3	51-52-5	0.613
Pyrethrum	3, 6	8003-34-7	235
Pyridine	3	110-86-1	675
Quinoline	2	91-22-5	2,000
Quinone	2, 3, 6	106-51-4	20.8
Resorcinol	3	108-46-3	2,000
Rhodium (metal) and insoluble compounds, as Rh	3	7440-16-6*	47.1
Rhodium, soluble compounds, as Rh	3	7440-16-6*	0.471
Rotenone (commercial)	3, 6	83-79-4	235
Safrole	3	94-59-7	2.82
Selenium and compounds, as Se	2, 3	7782-49-2*	9.41
Silicon tetrahydride (Silane)	3	7803-62-5	309
Sodium Azide, as sodium azide or hydrazoic acid vapor	3	26628-22-8*	19.1
Sodium bisulfite	3	7631-90-5	235
Sodium fluoroacetate	3, 6	62-74-8	2.35
Sodium hydroxide	3	1310-73-2	131
Sodium metabisulfite	3	7681-57-4	235
Stibine (Antimony hydride)	3, 6	7803-52-3	24
Stoddard solvent (Mineral spirits)	3	8052-41-3	2,000
Streptozotocin	3	18883-66-4	0.00573
Strong inorganic acid mists containing sulfuric acid (>35% by weight)	3	7664-93-9	0.243
Strychnine	3, 6	57-24-9	7.06
Styrene oxide	2	96-09-3	2,000
Styrene, monomer	2, 3	100-42-5	2,000
Sulfometuron methyl	3	74222-97-2	235
Sulfotep (TEDP)	3, 6	3689-24-5	9.41
Sulfur dioxide	1, 4	7446-09-5	2,000
Sulfur monochloride	3	10025-67-9	361
Sulfur tetrafluoride	3	7783-60-0	28.9
Sulfuric acid	3	7664-93-9	47.1
Sulfuryl fluoride	3, 6	2699-79-8	982
Sulprofos	3	35400-43-2	47.1

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Talc, containing no asbestos fibers	3	14807-96-6	94.1
Tantalum, metal and oxide dusts, as Ta	3	7440-25-7*	235
Tellurium and compounds, except hydrogen telluride, as Te	3	13494-80-9*	4.71
TEPP	3, 6	107-49-3	2.35
Terphenyls	3	26140-60-3*	327
2,3,7,8-Tetrachlorodibenzo-p-dioxin (Dioxin; 2,3,7,8-TCDD), as dioxin equivalents	2,3,4	1746-01-6	0.00001
1,1,2,2-Tetrachloroethane	2, 3	79-34-5	323
Tetrachloronaphthalene	3	1335-88-2	94.1
1,1,1,2-Tetrafluoroethane	3	811-97-2	2,000
Tetrafluoroethylene	3	116-14-3	0.243
Tetrahydrofuran	3	109-99-9	2,000
Tetranitromethane	3	509-14-8	0.243
Thallium, elemental and soluble compounds, as Tl	3	7440-28-0*	4.71
Thionyl chloride	3	7719-09-7	318
Thiourea	3	62-56-6	8.46
Thiram	3, 6	137-26-8	47.1
Tin organic compounds, as Sn	3	7440-31-5*	4.71
Tin, metal, oxides and inorganic compounds, except tin hydride, as Sn	3	7440-31-5*	94.1
Titanium tetrachloride	2	7550-45-0	2,000
Toluene (Toluol)	2, 3	108-88-3	2,000
2,4-/2,6-Toluene diisocyanate (mixtures and isomers) (TDI)	2, 3	584-84-9*	1.24
m- and p-Toluidine	3	108-44-1	412
o-Toluidine and o-toluidine hydrochloride and mixed isomers	2, 3	95-53-4*	3.48
Total reduced sulfur and reduced sulfur compounds	4	*	2,000
Tributyl phosphate	3	126-73-8	103
1,2,4-Trichlorobenzene	2, 3	120-82-1	2,000
1,1,2-Trichloroethane	2, 3	79-00-5	2,000
Trichloroethylene (Trichloroethene)	2, 3	79-01-6	88.8
Trichloronaphthalene	3	1321-65-9	235
2,4,5-Trichlorophenol	2	95-95-4	2,000
2,4,6-Trichlorophenol	2, 3	88-06-2	57.3
1,2,3-Trichloropropane	3	96-18-4	0.243
Triethanolamine	3	102-71-6	235
Triethylamine	2	121-44-8	195
Trifluralin	2	1582-09-8	2,000
1,3,5-Triglycidyl-s-triazinetriene	3	2451-62-9	2.35
Trimellitic anhydride	3	552-30-7	2.62
Trimethyl benzene (mixtures and isomers)	3	25551-13-7*	2,000
Trimethylamine	3	75-50-3	569
2,2,4-Trimethylpentane	2	540-84-1	2,000

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2,4,6-Trinitrotoluene (TNT)	3	118-96-7	4.71
Triorthocresyl phosphate	3	78-30-8	4.71
Triphenyl phosphate	3	115-86-6	141
Tris(1-aziridiny)phosphine sulfide (Thiotepa)	3	52-24-4	0.0523
Tris(2,3-dibromopropyl phosphate)	3	126-72-7	0.269
Tungsten, as W, metal and insoluble compounds	3	7440-33-7*	235
Tungsten, as W, soluble compounds	3	7440-33-7*	47.1
Uranium (natural), soluble and insoluble compounds, as U	3	7440-61-1*	9.41
Urethane (Ethyl carbamate)	2, 3	51-79-6	0.613
n-Valeraldehyde	3	110-62-3	2,000
Vanadium pentoxide, as V2O5, respirable dust and fume	3	1314-62-1	2.35
Vinyl acetate	2, 3	108-05-4	1,657
Vinyl bromide	2	593-60-2	103
Vinyl chloride	2, 3	75-01-4	20.2
Vinyl cyclohexene dioxide (4-vinyl-1-cyclohexene diepoxide)	3	106-87-6	0.243
4-Vinyl cyclohexene	3	100-40-3	20.8
Vinyl fluoride	3	75-02-5	88.6
Vinylidene chloride (1,1-Dichloroethylene)	2, 3	75-35-4	933
Vinyl toluene	3	25013-15-4	2,000
Volatile organic compounds (Reactive organic gases)	1	*	2,000
Warfarin	3, 6	81-81-2	4.71
Xylene (mixtures and isomers) (Xylol; Dimethyl Benzene)	2, 3	1330-20-7*	2,000
m-Xylene-alpha,alpha'-diamine	3	1477-55-0	6.54
Xylidine (mixtures and isomers)	3	1300-73-8*	117
Yttrium metal and compounds, as Y	3	7440-65-5*	47.1
Zeolites (Erionite)	3	66733-21-9	0.243
Zirconium and compounds, as Zr	3	7440-67-7*	235

<sup>1</sup> Criteria pollutant or criteria pollutant precursor

<sup>2</sup> Federal hazardous air pollutant listed under section 112(b) of the Act

<sup>3</sup> State hazardous air pollutant

<sup>4</sup> Federal New Source Performance Standard

<sup>5</sup> Stratospheric ozone depleting substance

<sup>6</sup> Pesticides, rodenticides, insecticides, herbicides and fungicides

<sup>7</sup> The Chemical Abstract Service or CAS numbers refer to the unique chemical abstracts service registry number assigned to a specific chemical, isomer or mixture of chemicals or isomers and recorded in the CAS chemical registry system by the Chemical Abstracts Service, PO Box 3012, Columbus OH 42310, phone 1-800-848-5638 ext.2308.8.

<sup>8</sup> 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

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or R = phenyl or alkyl substituted phenyl

R' = H or alkyl C7 or less, or OR' consists of carboxylic acid ester, sulfate, phosphate, nitrate or sulfonate.

<sup>9</sup> Emissions of GHG on a carbon dioxide equivalent basis shall be determined according to s. NR 405.07 (9) (b).

<sup>10</sup> Federal greenhouse gases listed under 40 CFR Part 70.

\* Indicates contaminants for which multiple CAS numbers may apply. For contaminants listed as a metal and its compounds, the given CAS number refers to the metal.

The department proposes to amend s. NR 407.09(1)(c)1.b. as follows

**NR 407.09(1)(c)1.b.** Where the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring, periodic monitoring or testing sufficient to yield reliable data from the relevant time period that are representative of the stationary source's compliance with the permit. Monitoring or testing requirements shall assure use of terms, test methods, units, averaging periods and other statistical conventions consistent with the applicable requirement. Monitoring may consist of recordkeeping sufficient to meet the requirements of this subd. **1. b.** Permits for non-part 70 sources shall contain the requirements in this subd. **1. b.** only for those air contaminants emitted from an emissions unit, operation or activity where the actual emissions exceed the levels in ~~Table 2 or Table 3 for calendar years 2004 and later,~~ in s. NR 407.05. Actual emissions used for this determination shall be those reported under ch. NR 438 for the most recent year prior to when the permit or renewal is issued.

The department proposes to amend s. NR 407.10(5)(b), (c), and (d)

**NR 407.10(5)(b)** An owner or operator of a stationary source that has an individual operation permit may submit a request to the department to revise or revoke the individual operation permit pursuant to s. NR 407.12, 407.13 or 407.15 (4) and allow the source to be covered under a general operation permit. ~~The owner or operator shall submit to the department a written request for revision or revocation of the individual operation permit and a~~ complete application for a general operation permit under this section shall be considered a request to revise or revoked the individual operation permit.

**(c)** An owner or operator of a stationary source that is covered under a registration operation permit may submit a request to the department to withdraw the source from coverage under the registration operation permit and allow the source to be covered under a general operation permit. ~~The owner or operator shall submit to the department a written request for withdrawal of the registration operation permit and a~~ complete application for a general operation permit under this section shall be considered a request to withdraw the facility from coverage under a registration permit.

~~**(d)** The owner or operator shall submit a request for revision or revocation of an operation permit or withdrawal from coverage under an operation permit on department approved forms.~~

~~Note: Contact the regional offices or service centers of the department or the Permits and Stationary Source Modeling Section of the Bureau of Air Management, 608-266-7718, for inf~~

The department proposes to delete NR 407.105(4)(f) as follows:

**(4) PROCEDURE FOR DETERMINING COVERAGE UNDER A REGISTRATION OPERATION PERMIT FOR AN INDIVIDUAL FACILITY.** (a) An owner or operator of a facility who applies for coverage under a registration operation permit shall submit an application using department approved forms.

**Note:** Contact the regional offices or service centers of the department or the Permits and Stationary Source Modeling Section of the Bureau of Air Management, 608-266-7718, for information on how to obtain and submit the department approved registration permit application forms.

*Note: The following proposed rule language is draft and has not yet been reviewed by department legal staff. The attached proposed rule and any future versions of the proposed rule resulting from workgroup discussions are subject to modification and/or removal entirely as a result of subsequent department legal review.*

(b) An owner or operator of a facility who requests or requires emission limits, terms or conditions that require case-by-case review and approval by the department, or emission limits, terms or conditions other than, or in addition to, those contained in the registration operation permit, shall apply for a different type of permit.

(c) Within 15 days after the receipt of an application for coverage, the department shall provide one of the following to an applicant for a registration operation permit:

1. Written notice of the department's determination that the facility is covered under a registration operation permit.

2. A written description of any information that is missing from the application for coverage under a registration operation permit.

3. Written notice of the department's determination that the facility does not qualify for coverage under a registration operation permit, specifically describing the reasons for that determination.

(d) The department shall grant coverage under the registration operation permit if the owner or operator of the facility applies for coverage and meets the eligibility requirements in the registration operation permit, unless the facility is ineligible for coverage under sub. (3).

(e) For the purpose of determining whether a source is eligible for coverage under a registration operation permit, the source's emissions shall be calculated using the terms and conditions listed in the registration operation permit.

**Note:** The permit terms and conditions may include capture and control efficiencies. The Air Emissions Management System (AEMS) requires the owner or operator of a source to calculate actual annual emissions for reporting to the inventory using the terms and conditions in a permit.

~~(f) The owner or operator of a facility that has an individual operation permit or is covered under a general operation permit may submit an application for coverage under a registration operation permit on or after July 1, 2006. The owner or operator shall submit a request for revision or revocation of the existing operation permit pursuant to sub. (6) prior to submitting the application for coverage under the registration operation permit. The revision or revocation request may be submitted before July 1, 2006.~~

The department proposes to amend NR 407.105(6)(b) and (c) as follows:

**(6) APPLICATION FOR A DIFFERENT PERMIT.** (a) An owner or operator of a facility that is covered under a registration operation permit may submit a request to the department to withdraw the source from coverage under the registration operation permit and allow the facility to be covered under a general operation permit or be issued an individual operation permit. The owner or operator shall submit a written request for the withdrawal of the registration operation permit and a complete application for an individual or general operation permit under s. NR 407.05 or 407.10.

(b) An owner or operator of a facility that has an individual operation permit may submit a request to the department to revoke the individual operation permit pursuant to s. NR 407.15 and allow the facility be covered under a registration operation permit. ~~The owner or operator shall submit to the department a written request for revocation of the operation permit and a~~ A complete application for a registration operation permit submitted under this section shall be considered a request for revocation of the existing individual operation permit.

(c) An owner or operator of a facility that is covered under a general operation permit may submit a request to the department to withdraw coverage under the general operation permit and allow the facility to be covered under a registration operation permit. ~~The owner or operator shall submit to the department a written request for withdrawal of the operation permit and a~~ A complete application for a registration operation permit submitted under this section shall be considered a request for withdrawal of coverage under the general permit.

~~(d) The owner or operator shall submit a request for revocation or withdrawal of an operation permit under this subsection on department approved forms.~~

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**Note:** Contact the regional offices or service centers of the department or the Permits and Stationary Source Modeling Section of the Bureau of Air Management, 608-266-7718, for information on how to obtain and submit the department approved forms.

(e) The owner or operator of a facility submitting an application for a different permit under this subsection shall comply with the existing permit until the department has issued or granted coverage under the different permit.