

**Negotiated Rule Draft No. 2, Dated April 16, 2012**

**Docket No. 58-0101-1201**

**Yellow shaded text indicates revisions made based on discussion held on April 4, 2012 and review of written comments.**

The comment period for this negotiated rulemaking has concluded. The comment period on the proposed rule will commence upon publication of the proposed rule in the Idaho Administrative Bulletin. DEQ intends to publish the proposed rule on June 6, 2012.

IDAPA 58.01.01  
Rules for the Control of Air Pollution in Idaho

**006. GENERAL DEFINITIONS.**

**68. Modification.** (4-11-06)

**a.** Any physical change in, or change in the method of operation of, a stationary source or facility which results in an emission increase as defined in Section 007 or which results in the emission of any regulated air pollutant not previously emitted. (4-11-06)

**b.** Any physical change in, or change in the method of operation of, a stationary source or facility which results in an increase in the emissions rate of any state only toxic air pollutant, or emissions of any state only toxic air pollutant not previously emitted. (4-11-06)

**c.** Fugitive emissions shall not be considered in determining whether a permit is required for a modification unless required by federal law. (4-11-06)

**d.** For purposes of this definition of modification, routine maintenance, repair and replacement shall not be considered physical changes and the following shall not be considered a change in the method of operation: (3-30-07)

**i.** An increase in the production rate if such increase does not exceed the operating design capacity of the affected stationary source, and if a more restrictive production rate is not specified in a permit; (5-1-94)

**ii.** An increase in hours of operation if more restrictive hours of operation are not specified in a permit; and (5-1-94)

**iii.** Use of an alternative fuel or raw material if the stationary source is specifically designed to accommodate such fuel or raw material before January 6, 1975 and use of such fuel or raw material is not specifically prohibited in a permit. (~~4-5-00~~)

*[The January 6, 1975 date is proposed to be added for consistency with the federal definition of "major modification" at 40 CFR 52.21(b)(2)(iii)(e)(1). This will ensure that minor facilities will not circumvent PSD permitting requirements. If the date were not added, certain fuel and raw material changes would not be a modification which is inconsistent with the definition for a major modification.]*

(Break in Continuity of Subsections)

**106. Significant.** In reference to a net emissions increase or the potential of a source to emit any of the following pollutants, a rate of emissions that would equal or exceed any of the following: (4-11-06)

**a.** Pollutant and emissions rate: (4-11-06)

**i.** Carbon monoxide, one hundred (100) tons per year; (5-1-94)

- ii. Nitrogen oxides, forty (40) tons per year; (5-1-94)
  - iii. Sulfur dioxide, forty (40) tons per year; (5-1-94)
  - iv. Particulate matter,
    - (1) \_\_\_\_\_ twenty-five (25) tons per year of particulate matter emissions;
    - (2) \_\_\_\_\_ fifteen (15) tons per year of PM<sub>10</sub> emissions; ~~or~~ (4-11-06)
    - (3) \_\_\_\_\_ ten (10) tons per year of direct PM<sub>2.5</sub> emissions; forty (40) tons per year of sulfur dioxide emissions; forty (40) tons per year of nitrogen oxide emissions;  
*[Revisions made for consistency with the definition of "Significant" in federal regulations. Definition of PM-2.5 is taken from 40 CFR 52.21(b)(23).]*
  - v. Ozone, forty (40) tons per year of volatile organic compounds; (4-11-06)
  - vi. Lead, six-tenths (0.6) of a ton per year; (5-1-94)
  - vii. Fluorides, three (3) tons per year; (5-1-94)
  - viii. Sulfuric acid mist, seven (7) tons per year; (5-1-94)
  - ix. Hydrogen sulfide (H<sub>2</sub>S), ten (10) tons per year; (5-1-94)
  - x. Total reduced sulfur (including H<sub>2</sub>S), ten (10) tons per year; (5-1-94)
  - xi. Reduced sulfur compounds (including H<sub>2</sub>S), ten (10) tons per year; (5-1-94)
  - xii. Municipal waste combustor organics (measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans), thirty-five ten-millionths (0.0000035) tons per year; (5-1-94)
  - xiii. Municipal waste combustor metals (measured as particulate matter), fifteen (15) tons per year; (5-1-94)
  - xiv. Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride), forty (40) tons per year; (5-1-94)
  - xv. Municipal solid waste landfill emissions (measured as nonmethane organic compounds), fifty (50) tons per year; or (4-11-06)
  - xvi. Radionuclides, a quantity of emissions, from source categories regulated by 40 CFR Part 61, Subpart H, that have been determined in accordance with 40 CFR Part 61, Appendix D and by Department approved methods, that would cause any member of the public to receive an annual effective dose equivalent of at least one tenth (0.1) mrem per year, if total facility-wide emissions contribute an effective dose equivalent of less than three (3) mrem per year; or any radionuclide emission rate, if total facility-wide radionuclide emissions contribute an effective dose equivalent of greater than or equal to three (3) mrem per year. (5-1-95)
- b.** In reference to a net emissions increase or the potential of a source or facility to emit a regulated air pollutant not listed in Subsection 006.103.a. above and not a toxic air pollutant, any emission rate; or (3-30-07)
- c.** For a major facility or major modification which would be constructed within ten (10) kilometers of a Class I area, the emissions rate which would increase the ambient concentration of an emitted regulated air pollutant in the Class I area by one (1) microgram per cubic meter, twenty-four (24) hour average, or more. (4-5-00)

- 107. Significant Contribution.** Any increase in ambient concentrations which would exceed the following: (5-1-94)
- a.** Sulfur dioxide: (5-1-94)
    - i. One (1.0) microgram per cubic meter, annual average; (5-1-94)
    - ii. Five (5) micrograms per cubic meter, twenty-four (24) hour average; (5-1-94)
    - iii. Twenty-five (25) micrograms per cubic meter, three (3) hour average; (5-1-94)
  - b.** Nitrogen dioxide, one (1.0) microgram per cubic meter, annual average; (5-1-94)
  - c.** Carbon monoxide: (5-1-94)
    - i. One-half (0.5) milligrams per cubic meter, eight (8) hour average; (5-1-94)
    - ii. Two (2) milligrams per cubic meter, one (1) hour average; (5-1-94)
  - d.** PM-10: (5-1-94)
    - i. One (1.0) microgram per cubic meter, annual average; (5-1-94)
    - ii. Five (5.0) micrograms per cubic meter, twenty-four (24) hour average. (5-1-94)
  - e.** PM-2.5:
  - i. Three-tenths (0.3) microgram per cubic meter, annual average;
  - ii. One point two (1.2) micrograms per cubic meter, twenty-four (24) hour average.

*[Revisions made for consistency with federal regulations. The PM-2.5 values are taken from 40 CFR 51.165(b)(2).]*

(Break in Continuity of Sections)

**220. GENERAL EXEMPTION CRITERIA FOR PERMIT TO CONSTRUCT EXEMPTIONS.**

**01. General Exemption Criteria.** Sections 220 through 223 may be used by owners or operators to exempt certain sources from the requirement to obtain a permit to construct. Nothing in these sections shall preclude an owner or operator from choosing to obtain a permit to construct. For purposes of Sections 220 through 223, the term source means the equipment or activity being exempted. For purposes of Sections 220 through 223, fugitive emissions shall not be considered in determining whether a source meets the applicable exemption criteria unless required by federal law. No permit to construct is required for a source that satisfies all of the following criteria, in addition to the criteria set forth at Sections 221, and 223 or 222, ~~or~~ and 223 (as required): (4-11-06)  
*[Because the last sentence of Subsection 220.01 has an "or" in it, facilities and consultants in the past have applied Section 220 and then only applied Section 223 to determine if they are exempt from permits. This was because a literal reading of 220.01 allowed them to skip over Sections 221 and 222 and only apply Section 223. The intention of these sections is that facilities have to meet the requirements of Section 220, Sections 221 (Category I) or 222 (Category II), and Section 223 when it is required. Therefore, the proposed rule change will clarify the sections of the rule that need to be applied in order to determine if a facility is exempt from permitting under the rules.]*

**a.** The maximum capacity of a source to emit an air pollutant under its physical and operational design without consideration of limitations on emission such as air pollution control equipment, restrictions on hours

of operation and restrictions on the type and amount of material combusted, stored or processed would not: (4-5-00)

- i. Equal or exceed one hundred (100) tons per year of any regulated air pollutant. (4-5-00)
  - ii. Cause an increase in the emissions of a major facility that equals or exceeds the significant emissions rates set out in the definition of significant at Section 006. (4-5-00)
- b.** Combination. The source is not part of a proposed new major facility or part of a proposed major modification. (4-5-00)

**02. Record Retention.** Unless the source is subject to and the owner or operator complies with Section 385, the owner or operator of the source, except for those sources listed in Subsections 222.02.a. through 222.02.g., shall maintain documentation on site which shall identify the exemption determined to apply to the source and verify that the source qualifies for the identified exemption. The records and documentation shall be kept for a period of time not less than five (5) years from the date the exemption determination has been made or for the life of the source for which the exemption has been determined to apply, which ever is greater, or until such time as a permit to construct or an operating permit is issued which covers the operation of the source. The owner or operator shall submit the documentation to the Department upon request. (4-5-00)

(Break in Continuity of Sections)

**222. CATEGORY II EXEMPTION.**

No permit to construct is required for the following sources. (4-5-00)

**01. Exempt Source.** A source that satisfies the criteria set forth in Section 220 and that is specified below: (4-5-00)

**a.** Laboratory equipment used exclusively for chemical and physical analyses, research or education, including, but not limited to, ventilating and exhaust systems for laboratory hoods. To qualify for this exemption, the source shall: (5-1-94)

- i. Comply with Section 223. (4-5-00)
- ii. Have potential emissions that are less than one percent (1%) of the applicable radionuclides standard in 40 CFR Part 61, Subpart H. (4-5-00)

**b.** Environmental characterization activities including emplacement and operation of field instruments, drilling of sampling and monitoring wells, sampling activities, and environmental characterization activities. (4-5-00)

**c.** Stationary internal combustion engines of less than or equal to six hundred (600) horsepower and which are fueled by natural gas, propane gas, liquefied petroleum gas, distillate fuel oils, residual fuel oils, and diesel fuel; waste oil, gasoline, or refined gasoline shall not be used. To qualify for this exemption, the source must be operated in accordance with the following: (5-1-94)

- i. One hundred (100) horsepower or less -- unlimited hours of operation. (5-1-94)
- ii. One hundred one (101) to two hundred (200) horsepower -- less than four hundred fifty (450) hours per month. (5-1-94)
- iii. Two hundred one (201) to four hundred (400) horsepower -- less than two hundred twenty-five (225) hours per month. (5-1-94)
- iv. Four hundred one (401) to six hundred (600) horsepower -- less than one hundred fifty (150) hours

per month.

(5-1-94)

**d.** Stationary internal combustion engines used exclusively for emergency purposes which are operated less than five hundred (500) hours per year and are fueled by natural gas, propane gas, liquefied petroleum gas, distillate fuel oils, residual fuel oils, and diesel fuel; waste oil, gasoline, or refined gasoline shall not be used.

(4-11-06)

**e.** A pilot plant that uses a slip stream from an existing process stream not to exceed ten percent (10%) of that existing process stream ~~or~~ and which satisfies the following:

**i.** The source shall comply with Section 223. For carcinogen emissions, the owner or operator may utilize a short term adjustment factor of ten (10) by multiplying either the acceptable ambient concentration or the screening emissions level, but not both, by ten (10).

(4-5-00)

**ii.** The source shall have uncontrolled potential emissions that are less than one percent (1%) of the applicable radionuclides standard in 40 CFR Part 61, Subpart H.

(4-5-00)

**iii.** The exemption for a pilot plant shall terminate one (1) year after the commencement of operations and shall not be renewed.

(4-5-00)

*[Subsection 222.01.e. contains exemption criteria for pilot plants. A pilot plant is a small scale chemical processing system that uses a slip stream of an existing process to gather information for the purposes of designing a full scale system. The current language is confusing as it appears to exempt a pilot plant if it processes less than 10% of an existing process stream without any additional criteria listed in 222.01.e.i. thru iii. Pilot plants that process more than 10% of an existing process stream are required to comply with additional criteria: 1) TAPs analysis under Section 223; 2) meet 40 CFR 61 Subpart H requirements; and 3) the exemption terminates after 1 year. This language causes confusion with the use of "or" in requiring the additional criteria listed in Subsection 222.01.e.i. thru iii.*

*A pilot plant should be exempted based on its emissions rather than a slip stream percentage alone because process throughput and chemical composition can vary greatly between industrial types. In addition, pilot plants located at DOE facilities would always have to comply with the radionuclide NESHAPs. DEQ believes the current language contains a typographical error in the word "or" and it should be replaced with the word "and."]*

## **223. EXEMPTION CRITERIA AND REPORTING REQUIREMENTS FOR TOXIC AIR POLLUTANT EMISSIONS.**

No permit to construct for toxic air pollutants is required for a source that satisfies any of the exemption criteria below, the recordkeeping requirements at Subsection 220.02, and reporting requirements as follows:

(4-5-00)

**01. Below Regulatory Concern (BRC) Exemption.** The source qualifies for a BRC exemption if the uncontrolled emission rate (refer to Section 210) for all toxic air pollutants emitted by the source is less than or equal to ten percent (10%) of all applicable screening emission levels listed in Sections 585 and 586.

(4-5-00)

**02. Level I Exemption.** To obtain a Level I exemption, the source shall satisfy the following criteria:

(4-5-00)

**a.** The uncontrolled emission rate (refer to Section 210) for all toxic air pollutants shall be less than or equal to all applicable screening emission levels listed in Sections 585 and 586; or

(4-5-00)

**b.** The uncontrolled ambient concentration (refer to Section 210) for all toxic air pollutants at the point of compliance shall be less than or equal to all applicable acceptable ambient concentrations listed in Sections 585 and 586.

(4-5-00)

**03. Level II Exemption.** To obtain a Level II exemption, the source shall satisfy the following criteria:

(4-5-00)

**a.** The uncontrolled ambient concentration at the point of compliance (refer to Section 210) for all toxic air pollutants emitted by the source shall be less than or equal to all applicable acceptable ambient concentrations listed in Sections 585 and 586; and (4-5-00)

**b.** If the owner or operator installs and operates control equipment that is not otherwise required to qualify for an exemption and the controlled emission rate (refer to Section 210) of the source for all toxic air pollutants is less than or equal to ten percent (10%) of all applicable screening emission levels listed in Sections 585 and 586. (4-5-00)

**04. Level III Exemption.** To obtain a Level III exemption, the source shall satisfy the following criteria: (4-5-00)

**a.** The uncontrolled ambient concentration at the point of compliance (refer to Section 210) for all toxic air pollutants emitted by the source shall be less than or equal to all applicable acceptable ambient concentrations listed in Sections 585 and 586; and (4-5-00)

**b.** The controlled emission rate (refer to Section 210) for all toxic air pollutants emitted by the source shall be less than or equal to all applicable screening emission levels listed in Sections 585 and 586. (4-5-00)

**05. Annual Report for Toxic Air Pollutant Exemption.** Commencing on May 1, 1996, and annually thereafter, the owner or operator of a source claiming a Level I, II, or III exemption shall submit a certified report for the previous calendar year to the Department for each Level I, II, or III exemption determination. The owner or operator is not required to annually submit a certified report for a Level I, II, or III exemption determination previously claimed and reported. The report shall be labeled "Toxic Air Pollutant Exemption Report" and shall state the date construction has or will commence and shall include copies of all exemption determinations completed by the owner or operator for each Level I, II, and III exemption. (4-5-00)

*[Subsection 223.05 requires an annual toxics report be submitted to DEQ for any toxics exemption claimed. The current language is confusing in that it can be interpreted to imply that the source claiming the exemption submit an annual report forever for each exemption claimed. The reality is that the report is required for each exemption claimed during the previous calendar year. Once the report is submitted for the exemption claimed, the source has fulfilled the reporting requirement. The new language attempts to clarify that one report is required and, if it has been submitted for a claimed exemption, no further reporting is required.]*

(Break in Continuity of Sections)

**585. TOXIC AIR POLLUTANTS NON-CARCINOGENIC INCREMENTS.**

The screening emissions levels (EL) and acceptable ambient concentrations (AAC) for non-carcinogens are as provided in the following table. The AAC in this section are twenty-four (24) hour averages. (6-30-95)

CAS NUMBER	SUBSTANCE	OEL (mg/m3)	EL (lb/hr)	AAC (mg/m3)
60-35-5	Acetamide (NY)	--	0.002	0.0003
64-19-7	Acetic acid	25	1.67	1.25
108-24-7	Acetic anhydride	20	1.33	1
67-64-1	Acetone	1780	119	89
75-05-8	Acetonitrile	67	4.47	3.35
540-59-0	Acetylene dichloride, See 1,2-Dichloroethylene			
79-27-6	Acetylene tetrabromide	15	1	.75
107-02-8	Acrolein	0.25	0.017	0.0125
79-10-7	Acrylic acid	30	2	1.5
107-18-6	Allyl alcohol	5	0.333	.25
106-92-3	Allyl glycidyl ether	22	1.47	1.1
2179-59-1	Allyl propyl disulfide	12	0.8	0.6
7429-90-5	Aluminum Including:			
NA	Metal & Oxide	10	0.667	0.5
NA	Pyro powders	5	0.333	0.25
NA	Soluble salts	2	0.133	0.10
NA	Alkyls not otherwise classified	2	0.133	0.10
141-43-5	2-Aminoethanol, See Ethanolamine			
504-29-0	2-Aminopyridine	2	0.133	0.10
7664-41-7	Ammonia	18	1.2	0.9
12125-02-9	Ammonium chloride fume	10	0.667	0.5
3825-26-1	Ammonium perfluoro-octanoate	0.1	0.007	0.05

7773-06-0	Ammonium sulfamate	10	0.667	0.5
628-63-7	n-Amyl acetate	530	35.3	26.5
626-38-0	Sec-Amyl acetate	665	44.3	33.25
7440-36-0	Antimony & compounds, as Sb (handling & use)	0.5	0.033	0.025
86-88-4	ANTU	0.3	0.02	0.015
7784-42-1	Arsine	0.2	0.013	0.01
86-50-0	Azinphos-methyl	0.2	0.013	0.01
7440-39-3	Barium, soluble compounds, as Ba	0.5	0.033	0.025
17804-35-2	Benomyl	10	0.67	0.5
7106-51-4	p-Benzoquinone, See Quinone			
94-36-0	Benzoyl peroxide	5	0.333	0.25
92-52-4	Biphenyl	1.5	0.1	0.075
1304-82-1	Bismuth telluride undoped	10	0.667	0.05
NA	Bismuth telluride if selenium doped	5	0.333	0.25
1303-96-4	Borates, tetra odium salts - Including:			
NA	Anhydrous	1	0.067	0.05
NA	Decahydrate	5	0.333	0.25
NA	Pentahydrate	1	0.067	0.05
1303-86-2	Boron oxide	10	0.667	0.5
10294-33-4	Boron tribromide	10	0.667	0.5
7637-07-2	Boron trifluoride	3	0.2	0.25
314-40-9	Bromacil	10	0.667	0.5
7726-95-6	Bromine	0.7	0.047	0.035
7789-30-2	Bromine penta-fluoride	0.7	0.047	0.035
75-25-2	Bromoform	5	0.333	0.25
109-79-5	Butanethiol, see Butyl mercaptan			
78-93-3	2-Butanone, see Methyl ethyl ketone			

<del>112-87-2</del> 112-07-2 <i>[All revisions in this column are for the purpose of correcting CAS Numbers.]</i>	2-butoxyethyl acetate	---	8.33	1.25
111-76-2	2-Butoxyethanol (EGBG)	120	8	6
123-86-4	n-Butyl acetate	710	47.3	35.5
105-46-4	sec-Butyl acetate	950	63.3	47.5
540-88-5	tert-Butyl acetate	950	63.3	47.5
141-32-2	Butyl acrylate	55	3.67	2.75
71-36-3	n-Butyl alcohol	150	10	7.5
78-92-2	Sec-Butyl alcohol	305	20.3	15.25
75-65-0	tert-Butyl alcohol	300	20	15
109-73-9	Butylamine	15	1	.75
124-17-4	Butyl carbitol acetate (ID)	---	0.846	.625
1189-85-1	tert-Butyl chromate, as CrO3	0.1	0.007	.005
2426-08-6	n-Butyl glycidyl ether	135	9	6.75
138-22-7	n-Butyl lactate	25	1.67	1.25
109-79-5	Butyl mercaptan	1.8	0.12	0.09
89-72-5	o-sec-Butylphenol	30	2	1.5
98-51-1	p-tert-Butyltoluene	60	4	3
<del>13765-19-0</del> 1317-65-3	Calcium carbonate	10	0.667	0.5
156-62-7	Calcium cyanamide	0.5	0.033	0.025
1305-62-0	Calcium hydroxide	5	0.333	0.25
1305-78-8	Calcium oxide	2	0.133	0.1
1344-95-2	Calcium silicate (synthetic)	10	0.667	0.5
13397-24-5	Calcium sulfate	10	0.667	0.5
76-22-2	Camphor, synthetic	12	0.8	0.6

105-60-2	Caprolactam - Including: Dust Vapor	1 20	0.067 1.33	0.05 1.0
1333-86-4	Carbon black	3.5	0.23	0.175
2425-06-1	Captafol	0.1	0.007	0.005
133-06-2	Captan	5	0.333	0.25
463-58-1	Carbonyl sulfide	0.4	0.027	0.02
63-25-2	Carbaryl	5	0.333	0.25
1563-66-2	Carbofuran	0.1	0.007	0.005
75-15-0	Carbon disulfide	30	2	1.5
558-13-4	Carbon tetrabromide	1.4	0.093	0.07
75-44-5	Carbonyl chloride, See Phosgene			
353-50-4	Carbonyl fluoride	5	0.333	0.25
120-80-9	Catechol	20	1.33	1.0
21351-79-1	Cesium hydroxide	2	0.133	0.10
133-90-4	Chloramben (PL)	---	887	133
8001-35-2	Chlorinated camphene	0.5	0.0333	0.025
31242-93-0	Chlorinated diphenyl oxide	0.5	0.033	0.025
7782-50-5	Chlorine	3	0.2	0.15
10049-04-4	Chlorine dioxide	0.3	0.02	0.015
7790-91-2	Chlorine trifluoride (CL)	0.38	0.025	0.002
107-20-0	Chloroacetaldehyde	0.32	0.021	0.015
78-95-5	Chloroacetone	0.38	0.0253	0.019
532-27-4	a-Chloroacetophenone	0.32	0.021	0.016
79-04-9	Chloroacetyl chloride	0.2	0.013	0.01
108-90-7	Chlorobenzene	350	23.3	17.5

510-15-6	Chlorobenzilate (PL1)	---	0.047	0.035
2698-41-1	O-Chlorobenzylidene malononitrile (CL)	0.4	0.0027	0.03
126-99-8	2-Chloro-1,3-butadiene, see B-Chloroprene			
107-07-3	2-Chloroethanol, see Ethylene chlorohydrin			
600-25-9	1-Chloro-1-nitro propane	10	0.667	0.5
95-57-8	2-Chlorophenol (and all isomers) (ID)	---	0.033	0.025
76-06-2	Chloropicrin	0.7	0.047	0.037
126-99-8	B-chloroprene	36	2.4	1.8
2039-87-4	o-Chlorostyrene	285	19	14.25
95-49-8	o-Chlorotoluene	250	16.7	12.5
1929-82-4	2-Chloro-6-(tri-chloromethyl) pyridine, see Nitrapyrin			
2921-88-2	Chlorpyrifos	0.2	0.013	0.01
7440-47-3	Chromium metal - Including:	0.5	0.033	0.025
7440-47-3	Chromium (II) compounds, as Cr	0.5	0.033	0.025
<del>7440-47-3</del> 16065-83-1	Chromium (III) compounds, as Cr	0.5	0.033	0.025
2971-90-6	Clopidol	10	0.667	0.5
NA	Coal dust (<5% silica)	2	0.133	0.1
10210-68-1	Cobalt carbonyl as Co	0.1	0.007	0.005
16842-03-8	Cobalt hydrocarbonyl as Co	0.1	0.007	0.005
7440-48-4	Cobalt metal, dust, and fume	0.05	0.0033	0.0025
7440-50-8	Copper:			
7440-50-8	Fume	0.2	0.013	0.01
7440-50-8	Dusts & mists, as Cu	1	0.067	0.05
95-48-7	o-Cresol	22	1.47	1.1
108-39-4	m-Cresol	22	1.47	1.1
106-44-5	p-Cresol	22	1.47	1.1
1319-77-3	Cresols/Cresylic Acid (isomers and mixtures)	22	1.47	1.1

123-73-9	Crotonaldehyde	5.7	0.38	0.285
299-86-5	Cruformate	5	0.333	0.25
98-82-8	Cumene	245	16.3	12.25
420-04-2	Cyanamide	2	0.133	0.1
592-01-8	Cyanide and compounds as CN	5	0.333	0.25
110-82-7	Cyclohexane	1050	70	52.5
108-93-0	Cyclohexanol	200	13.3	10
108-94-1	Cyclohexanone	100	6.67	5
110-83-8	Cyclohexene	1015	67.7	50.75
108-91-8	Cyclohexylamine	41	2.73	2.05
121-82-4	Cyclonite	1.5	0.1	0.075
542-92-7	Cyclopentadiene	200	13.3	10
287-92-3	Cyclopentane	1720	114.667	86
94-75-7	2,4-D	10	0.667	0.5
17702-41-9	Decaborane	0.3	0.02	0.015
8065-48-3	Demeton	0.1	0.007	0.005
123-42-2	Diacetone alcohol	240	16	12
39393-37-8	Dialkyl phthalate (ID)	---	16.4	2.46
107-15-3	1,2-Diaminoethane, See Ethylenediamine			
333-41-5	Diazinon	0.1	0.007	0.005
334-88-3	Diazomethane	0.34	0.023	0.017
19287-45-7	Diborane	0.1	0.007	0.005
102-81-8	2-N-Dibutylamino ethanol	14	0.933	0.7
2528-36-1	Dibutyl phenyl phosphate	3.5	0.233	0.175
107-66-4	Dibutyl phosphate	8.6	0.573	0.43
84-74-2	Dibutyl phthalate	5	0.333	0.25
7572-29-4	Dichloroacetylene	0.39	0.0026	0.0195

95-50-1	o-Dichlorobenzene	300	20	15
106-46-7	1,4-Dichlorobenzene	450	30	22.5
118-52-5	1,3-Dichloro-5, 5-dimethyl hydantoin	0.2	0.013	0.025
75-34-3	Dichloroethane	405	27	20.25
540-59-0	1,2-Dichloroethylene	790	52.7	39.5
111-44-4	Dichloroethyl ether	30	2	1.5
75-43-4	Dichlorofluoromethane	40	2.67	2
594-72-9	1, 1-Dichloro-1-nitroethane	10	0.667	0.5
78-87-5	1,2-Dichloropropane, see Propylene dichloride			
75-99-0	2,2-Dichloropropionic acid	6	0.4	0.3
62-73-7	Dichlorvos	1	0.067	0.05
141-66-2	Dicrotophos	0.25	0.017	0.125
77-73-6	Dicyclopentadiene	30	2	1.5
102-54-5	Dicyclopentadienyl iron	10	0.667	0.5
111-42-2	Diethanolamine	15	1	0.75
109-89-7	Diethylamine	30	2	1.5
100-37-8	2-Diethylamino-ethanol	50	3.33	2.5
111-40-0	Diethylene triamine	4	0.267	0.2
60-29-7	Diethyl ether, <del>see Ethyl ether</del> <i>[The listing for diethyl ether directs you to ethyl ether which is not listed. Adding the OEL, EL and AAC under diethyl ether.]</i>	<u>1200</u>	<u>80</u>	<u>60</u>
96-22-0	Diethyl Ketone	705	47	35.25
84-66-2	Diethyl phthalate	5	0.333	0.25
2238-07-5	Diglycidyl ether (DGE)	0.53	0.035	0.0265
123-31-9	Dihydroxybenzene, see Hydroquinone			
108-83-8	Diisobutyl ketone	145	9.67	7.25
108-18-9	Diisopropylamine	20	1.33	1
127-19-5	Dimethyl acetamide	35	2.33	1.75

124-40-3	Dimethylamine	9.2	0.613	0.46
60-11-7	Dimethyl aminoazo-benzene (NY)	---	0.002	0.0003
1300-73-8	Dimethylamino-benzene, see Xylidine			
121-69-7	Dimethylaniline (N,N-Dimethylaniline)	25	1.67	1.25
1330-20-7	Dimethylbenzene, see Xylene			
300-76-5	Dimethyl-1,2-dibromo-2-dichloroethyl phosphate, see Naled			
68-12-2	Dimethylformamide	30	2	1.5
108-83-8	2,6-Dimethyl-4-heptanone, see Diisobutyl ketone			
131-11-3	Dimethylphthalate	5	0.333	0.25
148-01-6	Dinitolmide	5	0.333	0.25
528-29-0	Dinitrobenzene	1	0.067	0.05
99-65-0	m (or) 1,3-Dinitrobenzene	1	0.067	0.05
100-25-4	p (or) 1,4-Dinitrobenzene	1	0.067	0.05
534-52-1	Dinitro-o-cresol	0.2	0.013	0.01
148-01-6	3,5-Dinitro-o-toluamide, see Dinitolmide			
117-84-0	N-Dioctyl Phthalate	5	0.333	0.25
78-34-2	Dioxathion	0.2	0.013	0.01
92-52-4	Diphenyl, see Biphenyl			
122-39-4	Diphenylamine	10	0.667	0.5
	Diphenyl methane diisocyanate, see Methylenediphenyl diisocyanate			
34590-94-8	Dipropylene glycol methyl ether	600	40	30
123-19-3	Dipropyl ketone	235	15.7	11.75
85-00-7	Diquat	0.5	0.033	0.01
97-77-8	Disulfiram	2	0.133	0.1
298-04-4	Disulfoton	0.1	0.007	0.005
128-37-0	2,6-Ditert. butyl-p-cresol	10	0.667	0.5

330-54-1	Diuron	10	0.667	0.5
108-57-6	Divinyl benzene	50	3.33	2.5
1302-74-5	Emery (corundum) total dust (> 1% silica)	10	0.667	0.5
115-29-7	Endosulfan	0.1	0.007	0.005
72-20-8	Endrin	0.1	0.007	0.005
13838-16-9	Enflurane	566	37.7	28.3
1395-21-7	Enzymes, see Subtilisins			
2104-64-5	EPN (Ethoxy-4-Nitro-phenoxy phenylphosphine)	0.5	0.033	0.025
106-88-7	1,2-Epoxybutane (MI)	---	0.8	0.6
75-56-9	1,2-Epoxypropane, see Propylene oxide			
556-52-5	2,3-Epoxy-1-propanol, see Glycidol			
75-08-1	Ethanethiol, see Ethyl mercaptan			
141-43-5	Ethanolamine	8	0.533	0.4
563-12-2	Ethion	0.4	0.027	0.02
110-80-5	2-Ethoxyethanol	19	1.27	0.95
111-15-9	2-Ethoxyethyl acetate (EGEEA)	27	1.8	1.35
141-78-6	Ethyl acetate	1400	93.3	70
64-17-5	Ethyl alcohol	1880	125	94
75-04-7	Ethylamine	18	1.2	0.9
541-85-5	Ethyl amyl ketone	130	8.67	6.5
100-41-4	Ethyl benzene	435	29	21.75
74-96-4	Ethyl bromide	22	1.47	1.1
106-35-4	Ethyl butyl ketone	230	15.3	11.5
51-79-6	Ethyl carbamate (Urethane) (WA)	---	0.002	0.0015
75-00-3	Ethyl chloride	2640	176	132
107-07-3	Ethylene chlorohydrin	3	0.2	0.15
107-15-3	Ethylenediamine	25	1.67	1.25

107-06-2	Ethylene dichloride	40	2.667	2
107-21-1	Ethylene glycol vapor (CL)	127	0.846	6.35
628-96-6	Ethylene glycol denigrate	0.31	0.021	0.016
110-49-6	Ethylene glycol methyl ether acetate, see 2-Methoxyethyl acetate			
96-45-7	Ethylene thiourea (PL2)	---	0.047	0.035
109-94-4	Ethyl formate	300	20	15
16219-75-3	Ethylidene norbornene (CL)	25	0.167	1.25
75-08-1	Ethyl mercaptan	1	0.067	0.05
100-74-3	N-Ethylmorpholine	23	1.53	1.15
78-10-4	Ethyl silicate	85	5.67	4.25
22224-92-6	Fenamiphos	0.1	0.007	0.005
115-90-2	Fensulfothion	0.1	0.007	0.005
55-38-9	Fenthion	0.2	0.013	0.01
14484-64-1	Ferbam	10	0.667	0.5
12604-58-9	Ferrovandium dust	1	0.067	0.05
NA	Fibrous glass dust	10	0.667	0.5
NA	Fine Mineral Fibers - Including: 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. (ID)	--	0.661	0.5
NA	Fluorides, as F	2.5	0.167	0.125
7782-41-4	Fluorine	2	0.133	0.1
944-22-9	Fonofos	0.1	0.007	0.005
75-12-7	Formamide	30	2	1.5
64-18-6	Formic acid	9.4	0.627	0.47
98-01-1	Furfural	8	0.533	0.4
98-00-0	Furfuryl alcohol	40	2.67	2
7782-65-2	Germanium tetrahydride	0.6	0.04	0.03

NA	Glass, Fibrous or dust, see Fibrous glass dust			
111-30-8	Glutaraldehyde (CL)	0.82	0.0047	0.041
556-52-5	Glycidol	75	5	3.75
110-80-5	Glycol monoethyl ether, see 2-Ethoxyethanol			
7440-58-6	Hafnium	0.5	0.033	0.025
110-43-0	2-Heptanone, see Methyl n-amyl ketone			
106-35-4	3-Heptanone, see Ethyl butyl ketone			
151-67-7	Halothane	404	26.9	20.2
142-82-5	Heptane (n-Heptane)	1640	109	82
77-47-4	Hexachlorocyclopentadiene	0.1	0.007	0.005
1335-87-1	Hexachloronaphthalene	0.2	0.013	0.010
684-16-2	Hexafluoroacetone	0.7	0.047	0.035
822-06-0	Hexamethylene diisocyanate	0.03	0.002	0.0015
680-31-9	Hexamethylphosphoramide (WA)	---	0.002	0.0015
110-54-3	Hexane (n-Hexane)	180	12	9
591-78-6	2-Hexanone, see Methyl n-butyl ketone			
108-10-1	Hexone, see Methyl isobutyl ketone			
108-84-9	sec-Hexyl acetate	300	20	15
107-41-5	Hexylene glycol (CL)	121	0.806	6.05
37275-59-5	Hydrogenated terphenyls	5	0.333	0.25
10035-10-6	Hydrogen bromide (CL)	10	0.0667	0.5
7647-01-0	Hydrogen chloride (CL)	7.5	0.05	0.375
7722-84-1	Hydrogen peroxide	1.5	0.1	0.075
7783-06-4	Hydrogen sulfide	14	0.933	0.7
123-31-9	Hydroquinone	2	0.133	0.1
123-42-2	4-Hydroxy-4-Methyl-2-pentanone, see Diacetone alcohol			
<del>996-61-1</del> 1999-61-1	2 -Hydroxypropyl acrylate	3	0.2	0.15

95-13-6	Indene	45	3	2.25
7440-74-6	Indium & compounds as In	0.1	0.007	0.005
7553-56-2	Iodine (CL)	0.1	0.0067	0.005
75-47-8	Iodoform	10	0.667	0.5
1309-37-1	Iron oxide fume (Fe <sub>2</sub> O <sub>3</sub> ) as Fe	5	0.333	0.25
13463-40-6	Iron pentacarbonyl as Fe	0.8	0.053	0.04
7439-89-6	Iron salts, soluble, as Fe	1	0.067	0.05
123-92-2	Isoamyl acetate	525	35	26.25
123-51-3	Isoamyl alcohol	360	24	18
110-19-0	Isobutyl acetate	700	46.7	35
78-83-1	Isobutyl alcohol	150	10	6
26952-21-6	Isooctyl alcohol	270	18	13.5
78-59-1	Isophorone	28	1.867	1.4
4098-71-9	Isophorone diisocyanate	0.09	0.006	0.0045
109-59-1	Isopropoxyethanol	105	7	5.25
108-21-4	Isopropyl Acetate	1040	69.3	52
67-63-0	Isopropyl alcohol	980	65.3	49
75-31-0	Isopropylamine	12	0.8	0.6
643-28-7	N-Isopropylaniline	10	0.667	0.5
108-20-3	Isopropyl ether	1040	69.3	52
4016-14-2	Isopropyl glycidyl ether (IGE)	240	16	12
1332-58-7	Kaolin (respirable dust)	2	0.133	0.1
463-51-4	Ketene	0.9	0.06	0.045
7580-67-8	Lithium hydride	0.025	0.002	0.00125
546-93-0	Magnesite	10	0.667	0.5
1309-48-4	Magnesium oxide fume	10	0.667	0.5
121-75-5	Malathion	10	0.667	0.5

108-31-6	Maleic anhydride	1	0.067	0.05
7439-96-5	Manganese as Mn Including:			
7439-96-5	Dust & compounds	5	0.333	0.25
7439-96-5	Fume	1	0.067	0.05
101-68-8	MDI, see Methylene diphenyl isocyanate			
NA	Mercaptans not otherwise listed (ID)	---	0.033	0.025
141-79-7	Mesityl oxide	60	4	3
79-41-4	Methacrylic acid	70	4.67	3.5
74-93-1	Methanethiol, see Methyl mercaptan			
67-56-1	Methanol	260	17.3	13
16752-77-5	Methomyl	2.5	0.17	0.125
72-43-5	Methoxychlor	10	0.667	0.5
109-86-4	2-Methoxyethanol	16	1.07	0.8
110-49-6	2-Methoxyethyl acetate	24	1.6	1.2
150-76-5	4-Methoxyphenol	5	0.333	0.25
108-65-6	1-methoxy-2-proanol acetate (ID)	n/a	24	3.6
79-20-9	Methyl acetate	610	40.7	30.5
74-99-7	Methyl acetylene	1640	109	82
NA	Methyl acetylene-propadiene mix (MAPP)	1640	109	82
96-33-3	Methyl acrylate	35	2.33	1.75
126-98-7	Methylacrylonitrile	3	0.2	0.15
74-89-5	Methylamine	12	0.8	0.6
108-11-2	Methyl emyl alcohol, see Methyl isobutyl carbinol			
110-43-0	Methyl n-amyl ketone	235	15.7	11.75
100-61-8	N-Methyl aniline	2	0.133	0.1
74-83-9	Methyl bromide	19	1.27	0.95
591-78-6	Methyl n-butyl ketone	20	1.33	1

<del>109-86-4</del>	Methyl cellosolve (2-Methoxyethanol) <i>[Delete this entry since it duplicates the entry for 2-methoxyethanol.]</i>	<del>15.6</del>	<del>1.04</del>	<del>0.78</del>
74-87-3	Methyl chloride	103	6.867	5.15
71-55-6	Methyl chloroform	1910	127	95.5
137-05-3	Methyl 2-cyano-acrylate	8	0.533	0.4
25639-42-3	Methylcyclohexanol	235	15.7	11.75
583-60-8	o-Methylcyclohexanone	230	15.3	11.5
8022-00-2	Methyl demeton	0.5	0.033	0.01
101-68-8	Methylenediphenyl diisocyanate (MDI)	0.05	0.003	0.0025
5124-30-1	Methylene bis (4-cyclohexyl isocyanate)	0.11	0.007	0.0055
78-93-3	Methyl ethyl ketone (MEK)	590	39.3	29.5
1338-23-4	Methyl ethyl ketone peroxide (CL)	1.5	0.01	0.0075
107-31-3	Methyl formate	246	16.4	12.3
541-85-5	5-Methyl-3-heptanone, see Ethyl amyl ketone			
110-12-3	Methyl isoamyl ketone	240	16	12
108-11-2	Methyl isobutyl carbinol	104	6.93	5.2
108-10-1	Methyl isobutyl ketone	205	13.7	10.25
624-83-9	Methyl isocyanate	0.05	0.003	0.0025
563-80-4	Methyl isopropyl ketone	705	47	35.25
74-93-1	Methyl mercaptan	0.5	0.033	0.025
80-62-6	Methyl methacrylate	410	27.3	20.5
298-00-0	Methyl parathion	0.2	0.013	0.01
107-87-9	Methyl propyl ketone	700	46.7	35
681-84-5	Methyl silicate	6	0.4	0.3
98-83-9	a-Methyl styrene	240	16	10.20
109-87-5	Methylal (dimethoxymethane)	3110	207	155.5

108-87-2	Methylcyclohexane	1610	107	80.5
21087-64-9	Metribuzin	5	0.333	0.25
7786-34-7	Mevinphos	0.1	0.007	0.005
12001-26-2	Mica (Respirable dust)	3	0.2	0.15
NA	Mineral Wool Fiber (no asbestos)	10	0.667	0.5
7439-98-7	Molybdenum as Mo - Including:			
NA	Soluble compounds	5	0.333	0.25
NA	Insoluble compounds	10	0.667	0.5
108-90-7	Monochlorobenzene, see Chlorobenzene			
6923-22-4	Monocrotophos	0.25	0.017	0.0125
110-91-8	Morpholine	70	4.67	0.35
300-76-5	Naled	3	0.2	0.15
91-20-3	Naphthalene	50	3.33	2.5
54-11-5	Nicotine	0.5	0.033	0.025
1929-82-4	Nitrapyrin	10	0.667	0.5
7697-37-2	Nitric acid	5	0.333	0.25
100-01-6	p-Nitroaniline	3	0.2	0.15
98-95-3	Nitrobenzene	5	0.333	0.25
100-00-5	p-Nitrochlorobenzene	3	0.2	0.15
79-24-3	Nitroethane	310	20.7	15.5
7783-54-2	Nitrogen trifluoride	29	1.93	1.45
55-63-0	Nitroglycerin	0.46	0.031	0.023
75-52-5	Nitromethane	50	3.333	2.5
108-03-2	1-Nitropropane	90	6	4.5
99-08-1	m (or) 3-Nitrotoluene	11	0.733	0.55
88-72-2	o (or) 2-Nitrotoluene	11	0.733	0.55
99-99-0	p (or) 4-Nitrotoluene	11	0.733	0.55

76-06-2	Nitrotrichloromethane, see Chloropicrin			
10024-97-2	Nitrous oxide	90	6	4.5
111-84-2	Nonane	1050	70	52.5
2234-13-1	Octachloronaphthalene	0.1	0.007	0.005
111-65-9	Octane	1400	93.3	70
NA	Oil mist, mineral	5	0.333	0.25
20816-12-0	Osmium tetroxide as Os	0.002	0.0001	0.0001
144-62-7	Oxalic acid	1	0.067	0.05
7783-41-7	Oxygen difluoride (CL)	0.11	0.0007	0.0005
8002-74-2	Paraffin wax fume	2	0.133	0.1
4685-14-7	Paraquat	0.1	0.007	0.007
NA	Paraquat, all Compounds	0.1	0.007	0.005
56-38-2	Parathion	0.1	0.007	0.005
19624-22-7	Pentaborane	0.01	0.001	0.0005
1321-64-8	Pentachloronaphthalene	0.5	0.033	0.025
82-68-8	Pentachloronitrobenzene	0.5	0.0333	0.025
87-86-5	Pentachlorophenol	0.5	0.033	0.025
109-66-0	Pentane	1770	118	88.5
107-87-9	2-Pentanone, see Methyl propyl ketone			
594-42-3	Perchloromethyl mercaptan	0.8	0.053	0.04
7616-94-6	Perchloryl Fluoride	13	0.867	0.65
93763-70-3	Perlite	10	0.667	0.5
532-27-4	Phenacyl chloride, see a-Chloroacetophenone			
108-95-2	Phenol	19	1.27	0.95
92-84-2	Phenothiazine	5	0.333	0.25
108-45-2	m-Phenylenediamine	0.1	0.0067	0.005
106-50-3	p-Phenylenediamine	0.1	0.007	0.005

101-84-8	Phenyl ether, vapor	7	0.467	0.035
122-60-1	Phenyl glycidyl ether (PGE)	6	0.4	0.3
108-98-5	Phenyl mercaptan	2	0.133	0.1
638-21-1	Phenylphosphine (CL)	0.25	0.0017	0.00125
298-02-2	Phorate	0.05	0.003	0.001
7786-34-7	Phosdrin, see Mevinphos			
75-44-5	Phosgene	0.4	0.027	0.02
7803-51-2	Phosphine	0.4	0.027	0.02
7664-38-2	Phosphoric acid	1	0.067	0.05
7723-14-0	Phosphorus	0.1	0.007	0.005
10025-87-3	Phosphorus oxychloride	0.6	0.04	0.030
10026-13-8	Phosphorus penta-chloride	1	0.067	0.05
1313-80-3	Phosphorus penta-sulfide	1	0.067	0.05
1314-56-3	Phosphorus pentoxide (ID)	--	0.067	0.05
7719-12-2	Phosphorus trichloride	1.5	0.1	0.075
85-44-9	Phthalic anhydride	6	0.4	0.3
626-17-5	m-Phthalodinitrile	5	0.333	0.25
1918-02-1	Picloram	10	0.667	0.5
88-89-1	Picric acid	0.1	0.006	0.005
83-26-1	Pindone	0.1	0.007	0.005
142-64-3	Piperazine dihydro-chloride	5	0.333	0.25
83-26-1	2-Pivaloyl-1,3-indandione, see Pindone			
7440-06-4	Platinum - Including:			
7440-06-4	Metal	1	0.067	0.05
NA	Soluble salts, as Pt	0.002	0.0001	0.0001
65997-15-1	Portland cement	10	0.667	0.5
1310-58-3	Potassium hydroxide	2	0.133	0.1

107-19-7	Propargyl alcohol	2.3	0.153	0.115
123-38-6	Propionaldehyde (LA)	0.43	0.0287	0.0215
79-09-4	Propionic acid	30	2	1.5
114-26-1	Propoxur (Baygon)	0.5	0.033	0.025
109-60-4	n-Propyl acetate	840	56	42
71-23-8	Propyl alcohol	500	33.3	25
78-87-5	Propylene dichloride	347	23.133	17.35
6423-43-4	Propylene glycol dinitrate	0.34	0.023	0.017
107-98-2	Propylene glycol monomethyl ether	360	24	18
75-56-9	Propylene oxide	48	3.2	2.4
627-13-4	n-Propyl nitrate	105	7	5.25
8003-34-7	Pyrethrum	5	0.333	0.25
110-86-1	Pyridine	15	1	0.75
120-80-9	Pyrocatechol, see Catechol			
106-51-4	Quinone	0.4	0.027	0.02
121-84-4	RDX, see Cyclonite			
NA	Refractory Ceramic Fibers (see entry for specific content of emissions, ex: silica)			
108-46-3	Resorcinol	45	3	2.25
7440-16-6	Rhodium - Including:			
7440-16-6	Metal	1	0.067	0.05
NA	Insoluble compounds, as Rh	1	0.067	0.05
NA	Soluble compounds, as Rh	0.01	0.001	0.0005
299-84-3	Ronnel	10	0.667	0.5
83-79-4	Rotenone (commercial)	5	0.333	0.25
8030-30-6	Rubber solvent (Naphtha)	1590	106	79.5
<del>14167-96-1</del> 14167- 18-1	Salcoine as CO	0.1	0.007	0.005

7782-49-2	Selenium	0.2	0.013	0.010
NA	Selenium and compounds as Se	0.2	0.013	0.01
136-78-7	Sesone	10	0.667	0.5
7803-62-5	Silane, see silicon tetrahydride			
NA	Silica - amorphous - Including:			
61790-53-2	Diatomaceous earth (uncalcined)	10	0.667	0.5
112926-00-8	Precipitated silica	10	0.667	0.5
112926-00-8	Silica gel	10	0.667	0.5
NA	Silica, crystalline - Including:			
14464-46-1	Cristobalite	0.05	0.0033	0.0025
14808-60-7	quartz	0.1	0.0067	0.005
60676-86-0	silica, fused	0.1	0.0067	0.005
15468-32-3	tridymite	0.05	0.0033	0.0025
1317-95-9	Tripoli	0.1	0.0067	0.005
7440-21-3	Silicon	10	0.667	0.5
409-21-2	Silicon carbide	10	0.667	0.5
7803-62-5	Silicon tetrahydride	7	0.467	0.35
7440-22-4	Silver - Including			
7440-22-4	Metal	0.1	0.007	0.005
7440-22-4	Soluble compounds, as Ag	0.01	0.001	0.005
26628-22-8	Sodium azide (CL)	0.3	0.002	0.0015
7631-90-5	Sodium bisulfite	5	0.333	0.25
136-78-7	Sodium 2,4-dichloro-phenoxyethyl sulfate, see Sesone			
62-74-8	Sodium fluoroacetate	0.05	0.003	0.0025
1310-73-2	Sodium hydroxide	2	0.133	0.1
7681-57-4	Sodium metabisulfite	5	0.333	0.25
NA	Stearates (not including toxic metals)	10	0.667	0.5

7803-52-3	Stibine	0.5	0.033	0.025
8052-41-3	Stoddard solvent	525	35	26.25
57-24-9	Strychnine	0.15	0.01	0.0075
60-41-3	Strychnine sulfate as strichnine	0.15	0.01	0.01
100-42-5	Styrene monomer (ID)	--	6.67	1
1395-21-7	Subtilisins (Proteolytic enzymes as 100% pure crystalline enzyme)	0.00006	4.0E-07	3.0E-7
3689-24-5	Sulfotep	0.2	0.013	0.01
7664-93-9	Sulfuric acid	1	0.067	0.05
10025-67-9	Sulfur monochloride (CL)	6	0.04	0.03
5714-22-7	Sulfur pentafluoride (CL)	0.1	0.0007	0.0005
7783-60-0	Sulfur tetrafluoride (CL)	0.4	0.0027	0.002
2699-79-8	Sulfuryl fluoride	20	1.33	1
35400-43-2	Sulprofos	1	0.067	0.05
8065-48-3	Systox, see Demeton			
93-76-5	2,4,5-Trichlorophen-oxyacetic acid (2,4,5,-T)	10	0.667	0.05
7440-25-7	Tantalum	5	0.333	0.25
3689-24-5	TEDP, see Sulfotep			
13494-80-9	Tellurium & Compounds as Te	0.1	0.007	0.005
7783-80-4	Tellurium hexafluoride as Te	0.2	0.013	0.01
3383-96-8	Temephos	10	0.667	0.5
107-49-3	TEPP (Tetraethyl-pyrophosphate)	0.05	0.003	0.0025
26140-60-3	Terphenyls	4.7	0.313	0.235
1335-88-2	Tetrachloronaphthalene	2	0.133	0.10
78-00-2	Tetraethyl Lead	0.1	0.007	0.005
597-64-8	Tetraethyltin as organic tin	0.1	0.007	0.005
109-99-9	Tetrahydrofuran	590	39.3	29.5
75-74-1	Tetramethyl lead, as Pb	0.15	0.01	0.0075

3333-52-6	Tetramethyl succinonitrile	3	0.2	0.15
509-14-8	Tetranitromethane	8	0.533	0.4
7722-88-5	Tetrasodium pyrophosphate	5	0.333	0.25
479-45-8	Tetryl	1.5	0.1	0.075
7440-28-0	Thallium, soluble Compounds, as Tl	0.1	0.007	0.005
96-69-5	4,4-Thiobis (6 tert, butyl-m-cresol)	10	0.667	0.5
68-11-1	Thioglycolic acid	4	0.267	0.2
7719-09-7	Thionyl chloride (CL)	4.9	0.0327	0.245
137-26-8	Thiram	5	0.333	0.25
7440-31-5	Tin - Including:			
7440-31-5	Metal	2	0.133	0.1
NA	Oxide & inorganic compounds, except SnH <sub>4</sub> , as Sn	2	0.133	0.1
NA	Organic compounds as Sn	0.1	0.007	0.005
108-88-3	Toluene (toluol)	375	25	18.75
584-84-9	Toluene-2,4-di-isocyanate (TDI)	0.04	0.003	0.002
10-41-54	p-Toluenesulfonic acid (ID)	n/a	0.067	0.05
126-73-8	Tributyl phosphate	2.2	0.147	0.11
76-03-9	Trichloroacetic acid	7	0.467	0.35
120-82-1	1,2,4-Trichlorobenzene (CL)	37	2.47	1.85
79-01-6	Trichloroethylene	269	17.93	13.45
1321-65-9	Trichloronaphthalene	5	0.333	0.25
76-06-2	Trichloronitromethane, See Chloropicrin			
95-95-4	2,4,5-Trichlorophenol (MA)	---	---	0.0016
96-18-4	1,2,3-Trichloropropane	60	4	3
121-44-8	Triethylamine	4.1	0.27	0.2
1582-09-8	Trifluralin (PL3)	---	7.7	1.15
552-30-7	Trimellitic anhydride	0.04	0.003	0.002

75-50-3	Trimethylamine	12	0.8	0.6
25551-13-7	Trimethyl benzene (mixed and individual isomers)	123	8.2	6.15
540-84-1	2,2,4-Trimethyl-pentane	350	23.3	17.5
121-45-9	Trimethyl phosphite	10	0.667	0.5
479-45-8	2,4,6-Trinitrophenyl-methylnitramine, see Tetryl			
78-30-8	Triorthocresyl phosphate	0.1	0.007	0.005
603-34-9	Triphenyl amine	5	0.333	0.25
115-86-6	Triphenyl phosphate	3	0.2	0.15
7440-33-7	Tungsten - Including:			
NA	Insoluble compounds	5	0.333	0.25
NA	Soluble compounds	1	0.067	0.05
8006-64-2	Turpentine	560	37.3	28
7440-61-1	Uranium (natural) Soluble & insoluble compounds as U	0.2	0.013	0.01
110-62-3	n-Valeraldehyde	175	11.7	8.75
1314-62-1	Vanadium, as V2O5 Respirable Dust & fume	0.05	0.003	0.0025
108-05-4	Vinyl acetate (ID) <i>[There are no EL or AAC values for this listing. Instead of relying on the Idaho derived value listed under OEL, there is an existing national OEL that could be used. The ACGIH TLV for vinyl acetate is 35 mg/m3 so the Idaho derived value can be replaced. The EL and AAC can be determined accordingly. This makes this listing consistent with the other values in 585.]</i>	<del>0.235</del>	<u>2.3</u>	<u>1.75</u>
25013-15-4	Vinyl toluene	240	16	12
8032-32-4	VM & P Naphtha	1370	91.3	68.5
81-81-2	Warfarin	0.1	0.007	0.005
1330-20-7	Xylene (o-, m-, p-isomers)	435	29	21.75
1477-55-0	m-Xylene a, a-diamine (CL)	0.1	0.0007	0.0005
1300-73-8	Xylidine	2.5	1.67	0.125
7440-65-5	Yttrium (Metal and compounds as Y)	1	0.067	0.05

7440-66-6	Zinc metal (ID)	--	0.667	0.5
7646-85-7	Zinc chloride fume	1	0.067	0.05
1314-13-2	Zinc oxide fume	5	0.333	0.05
1314-13-2	Zinc oxide dust	10	0.667	0.5
7440-67-7	Zirconium compounds as Zr	5	0.333	0.25

(4-7-11)

**586. TOXIC AIR POLLUTANTS CARCINOGENIC INCREMENTS.**

The screening emissions levels (EL) and acceptable ambient concentrations (AACC) for carcinogens are as provided in the following table. The AACC in this section are annual averages.

CAS NUMBER	SUBSTANCE	URF	EL lb/hr	AACC ug/m3
75-07-0	Acetaldehyde	2.2E-06	3.0E-03	4.5E-01
79-06-1	Acrylamide	1.3E-03	5.1E-06	7.7E-04
107-13-1	Acrylonitrile	6.8E-05	9.8E-05	1.5E-02
309-00-2	Aldrin	4.9E-03	1.3E-06	2.0E-04
62-53-3	Aniline	7.4E-06	9.0E-04	1.4E-01
140-57-8	Aramite	7.1E-06	9.3E-04	1.4E-01
NA	Aroclor, all (PCB) (ID)	---	6.6E-05	1.0E-02
7440-38-2	Arsenic compounds	4.3E-03	1.5E-06	2.3E-04
1332-21-4	Asbestos (Fibers /M.L.)	2.3E-01	N/A	4.0E-06
71-43-2	Benzene	8.3E-06	8.0E-04	1.2E-01
92-87-5	Benzidine	6.7E-02	9.9E-08	1.5E-05
50-32-8	Benzo(a)pyrene	3.3E-03	2.0E-06	3.0E-04
<del>440-41-7</del> 7440-41-7 [All revisions in this column are for the purpose of correcting CAS Numbers.]	Beryllium & compounds	2.4E-04	2.8E-05	4.2E-03

106-99-0	1,3-Butadiene	2.8E-04	2.4E-05	3.6E-03
111-44-4	Bis (2-chloroethyl) ether	3.3E-04	2.0E-05	3.0E-03
542-88-1	Bis (chloromethyl) ether	6.2E-02	1.0E-07	1.6E-05
108-60-1	Bis (2-chloro-1-methyl- ethyl) ether	2.0E-05	3.3E-04	5.0E-02
117-81-7	Bis (2-ethylhexyl) phthalate	2.4E-07	2.8E-02	4.2E+00
7440-43-9	Cadmium and compounds	1.8E-03	3.7E-06	5.6E-04
56-23-5	Carbon tetrachloride	1.5E-05	4.4E-04	6.7E-02
57-74-9	Chlordane	3.7E-04	1.8E-04	2.7E-03
67-66-3	Chloroform	2.3E-05	2.8E-04	4.3E-02
<del>7440-47-3</del> <del>18540-29-9</del>	Chromium (VI) & compounds as Cr+6	1.2E-02	5.6E-07	8.3E-05
NA	Coal Tar Volitiles as benzene			
NA	Coke oven emissions	6.2E-04	1.1E-05	1.6E-03
8001-58-9	Creosote (ID) See coal tar volatiles as benzene extractables			
50-29-3	DDT (Dichlorodi phenyltrichloroethane)	9.7E-05	6.8E-05	1.0E-02
96-12-8	1,2-Dibromo-3-chloropropane	6.3E-03	1.0E-06	1.6E-04
75-34-3	1,1 dichloroethane	2.6E-05	2.5E-04	3.8E-02
107-06-2	1,2 dichloroethane	2.6E-05	2.5E-04	3.8E-02
75-35-4	1,1 dichloroethylene	5.0E-05	1.3E-04	2.0E-02
75-09-2	Dichloromethane (Methylenechloride)	4.1E-06	1.6E-03	2.4E-01
542-75-6	1,3 dichloropropene	3.5E-01	1.9E-07	2.9E-06
764-41-0	1,4-Dichloro-2-butene	2.6E-03	2.5E-06	3.8E-04
60-57-1	Dieldrin	4.6E-03	1.4E-06	2.1E-04
56-53-1	Diethylstilbestrol	1.4E-01	4.7E-08	7.1E-06
123-91-1	1,4 dioxane	1.4E-06	4.8E-03	7.1E-01

Dioxin and Furans (2,3,7,8,TCDD & mixtures) Dioxin and Furan emissions shall be considered as one TAP and expressed as an equivalent emission of 2,3,7,8, TCDD based on the relative potency of the isomers in accordance with US EPA guidelines. ~~Copies of EPA Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and dibenzofurans (CDDs and CDFs). 1989 Updates are available by requesting EPA/625/3-89/016, March 1989 from ORD Publications (513) 684-7562. U.S. EPA (Environmental Protection Agency), (2010) Recommended Toxicity Equivalence Factors (TEFs) for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-Like Compounds. Risk Assessment Forum, Washington, DC. EPA/600/R-10/005.~~

*[Reference to outdated EPA guidance replaced with reference to current EPA guidance.]*

122-66-7	1,2-Diphenylhydrazine	2.2E-04	3.0E-05	4.5E-03
106-89-8	Epichlorohydrin	1.2E-06	5.6E-03	8.3E-01
106-93-4	Ethylene dibromide	2.2E-04	3.0E-05	4.5E-03
75-21-8	Ethylene oxide	1.0E-04	6.7E-05	1.0E-02
50-00-0	Formaldehyde	1.3E-05	5.1E-04	7.7E-02
76-44-8	Heptachlor	1.3E-03	5.1E-06	7.7E-04
1024-57-3	Heptachlor Epoxide	2.6E-03	2.5E-06	3.5E-04
118-74-1	Hexachlorobenzene	4.9E-04	1.3E-05	2.0E-03
87-68-3	Hexachlorobutadiene	2.0E-05	3.3E-04	5.0E-02
	Hexachlorocyclo-hexane, Technical	5.1E-04	1.3E-05	1.9E-03
319-84-6	Hexachlorocyclohexane (Lindane) Alpha (BHC)	1.8E-03	3.7E-06	5.6E-04
<del>319-86-8</del>	<del>alpha Hexachlorocyclohexane</del> <i>[Duplicate entry.]</i>	<del>1.8E-03</del>	<del>3.6E-05</del>	<del>5.6E-03</del>
319-85-7	Hexachlorocyclohexane (Lindane) Beta (BHC)	5.3E-04	1.3E-05	1.8E-03
<del>319-86-8</del>	<del>beta Hexachlorocyclohexane</del> <i>[Duplicate entry.]</i>	<del>5.3E-04</del>	<del>1.3E-05</del>	<del>1.8E-03</del>
58-89-9	Hexachlorocyclohexane (Lindane) Gamma (BHC)	3.8E-04	1.7E-05	2.6E-03
67-72-1	Hexachloroethane	4.0E-06	1.7E-03	2.5E-01
301-01-2	Hydrazine	2.9E-03	2.3E-06	3.4E-04
<del>302-01-2</del> <del>210034-93-2</del>	Hydrazine Sulfate	2.9E-03	2.2E-06	3.5E-04
56-49-5	3-methylcholanthrene	2.7E-03	2.5E-06	3.7E-04
75-09-2	Methylene Chloride	4.1E-06	1.6E-03	2.4E-01
74-87-3	Methyl chloride	3.6E-06	1.9E-03	2.8E-01

101-14-4	4,4-Methylene bis(2-Chloroaniline)	4.7E-05	1.4E-04	2.1E-02
60-34-4	Methyl hydrazine	3.1E-04	2.2E-05	3.2E-03
7440-02-0	Nickel	2.4E-04	2.7E-05	4.2E-03
12035-72-2	Nickel Subsulfide	4.8E-04	1.4E-05	2.1E-02
7440-02-0	Nickel Refinery Dust	2.4E-04	2.8E-05	4.2E-02
79-46-9	2-Nitropropane	2.7E-02	2.5E-07	3.7E-05
55-18-5	N-Nitrosodiethylamine (diethylnitrosoamine) (DEN)	4.3E-02	1.5E-07	2.3E-05
62-75-9	N-Nitrosodimethylamine	1.4E-02	4.8E-07	7.1E-05
924-16-3	N-Nitrosodi-n-butylamine	1.6E-03	4.1E-06	6.3E-04
930-55-2	N-Nitrosopyrrolidine	6.1E-04	1.1E-05	1.6E-03
684-93-5	N-Nitroso-N-methylurea (NMU)	3.5E-01	1.9E-08	2.9E-06
<del>794-93-4</del>	<del>Panfuran S (see dihydroxymethyl furatrizine)</del> <i>[Entry for hydroxymethyl-furatrizine does not exist. With no clear toxicological evidence for its inhalation toxicity, delete entry.]</i>			
82-68-8	Pentachloronitrobenzene	7.3E-05	9.1E-05	1.4E-02
127-18-4	Perchloroethylene (see tetrachloroethylene)			
NA	Polyaromatic Hydrocarbons ( <u>except 7-PAH group</u> )	7.3E-05	9.1E-05	1.4E-02
	(Polycyclic Organic Matter <u>or 7-PAH group</u> ) For emissions of the <u>7-PAH mixtures group</u> , the following PAHs <del>and</del> shall be considered together as one TAP, equivalent in potency to benzo(a)pyrene: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, chrysene, indeno(1,2,3,-cd)pyrene, benzo(a)pyrene. (WA) <i>[Previously it was unclear how to treat PAHs that were not specifically listed. They should be compared individually to the Polyaromatic Hydrocarbon value.]</i>			
23950-58-5	Promanide	4.6E-06	1.5E-03	2.2E-01
50-55-5	Reserpine	3.0E-03	2.2E-06	3.3E-04
1746-01-6	2,3,7,8,-Tetrachlorodibenzo-p-dioxin (2,3,7,8, -TCDD)	4.5.E+01	1.5E-10	2.2E-08
NA	Soots and Tars (ID) See coal tar volatiles as benzene extractables.			
79-34-5	1,1,2,2,Tetrachloro-ethane	5.8E-05	1.1E-05	1.7E-02

127-18-4	Tetrachloroethylene	4.8E-07	1.3E-02	2.1E+00
79-00-5	1,1,2 - trichloroethane	1.6E-05	4.2E-04	6.2E-02
62-56-6	Thiourea	5.5E-04	1.2E-05	1.8E-03
8001-35-2	Toxaphene	3.2E-04	2.0E-05	3.0E-03
79-01-6	Trichloroethylene	1.3E-06	5.1E-04	7.7E-01
88-06-2	2,4,6 - Trichlorophenol	5.7E-06	1.2E-03	1.8E-01
75-01-4	Vinyl chloride	7.1E-06	9.4E-04	1.4E-01

(3-30-01)

(Break in Continuity of Sections)

**792. EMISSIONS STANDARDS FOR NONMETALLIC MINERAL PROCESSING PLANTS SUBJECT TO 40 CFR 60, SUBPART OOO.**

~~Owners and operators of nonmetallic mineral processing plants subject to a requirement of the New Source Performance Standards (NSPS) in 40 CFR 60, Subpart OOO shall comply with the emissions standards set forth in this section. (3-15-02)~~

~~**01. NSPS Regulated Processing Plants.** Affected facilities in fixed or portable plants that commence construction, reconstruction, or modification after August 31, 1983, except that the standards do not apply to the following operations: (3-15-02)~~

~~**a.** All facilities located in underground mines; and stand alone screening operations at plants without crushers or grinding mills. (3-15-02)~~

~~[The NSPS for nonmetallic mineral processing plants (40 CFR 60, Subpart OOO) was revised 4/28/2009 which changed many of the sections of the current permit by rule. To avoid having to go through a rule revision whenever or if ever the NSPS changes again, DEQ proposes to strikeout the non-applicable requirements resulting from the name change and just refer to the NSPS for applicable requirements.]~~

~~**01. Applicability and Designation of Affected Facilities.** The provisions of 40 CFR 60.670(a)(1) are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants that commence construction, modification, or reconstruction after August 31, 1983: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including the first storage silo or bin, are subject to the provisions of 40 CFR 60.670(a)(1).~~

~~**02. Facilities Not Applicable to 40 CFR 60.670(a)(2), (b), and (c).** The provisions of 40 CFR 60.670(a)(2), (b), and (c) do not apply to the following operations: all facilities located in underground mines, plants without crushers or grinding mills above ground, and wet processing operations (as defined in 40 CFR 60.671).~~

~~**ba.** An affected facility that is subject to the provisions of 40 CFR 60, Subpart F (Standards of Performance for Portland Cement Plants) or Subpart I (Standards of Performance for Hot Mix Asphalt Plants) or that follows the in plant process any facility subject to the provisions of 40 CFR 60, Subparts F or I, is not subject to the provisions of 40 CFR 60, Subpart OOO. (3-15-02)~~

~~**c.** Facilities with capacities as defined in 40 CFR 60.671 of: (3-15-02)~~

**b.** Facilities at the following plants are not subject to the provisions of 40 CFR 60, Subpart OOO:

i. Fixed sand and gravel plants and crushed stone plants with capacities, as defined in 40 CFR 60.671, of twenty-three (23) megagrams per hour (twenty-five (25) tons per hour) or less; (3-15-02)

ii. Portable sand and gravel plants and crushed stone plants with capacities, as defined in 40 CFR 60.671, of one hundred thirty-six (136) megagrams per hour (one hundred fifty (150) tons per hour) or less; and (3-15-02)

iii. Common clay plants and pumice plants with capacities, as defined in 40 CFR 60.671, of nine (9) megagrams per hour (ten (10) tons per hour) or less. (3-15-02)

**03. Standards of Performance for Nonmetallic Mineral Processing Plants.** Affected facilities subject to 40 CFR 60, Subpart OOO, shall comply with all applicable emissions standards, monitoring requirements, test methods and procedures, and reporting and recordkeeping requirements.

~~**02. Affected Facilities.** The following components in fixed or portable nonmetallic mineral processing plants, except as provided in Subsections 792.01.a., 792.01.b., and 792.01.c. are defined as affected facilities under the 40 CFR 60, Subpart OOO requirements: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station. (3-15-02)~~

~~**03. NSPS Particulate Matter Emissions Standards.** The standard for particulate matter is set forth in 40 CFR 60.672, which states: (3-15-02)~~

~~**a.** On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, no owner or operator subject to the provisions of 40 CFR 60, Subpart OOO shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which: (3-15-02)~~

~~i. Contain particulate matter in excess of five one hundredths (0.05) grams per dry standard cubic meter (G/dscm); and (3-15-02)~~

~~ii. Exhibit greater than seven percent (7%) opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 CFR 60.676 (e), (d), and (e). (3-15-02)~~

~~**b.** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred eighty (180) days after initial startup as required under 40 CFR 60.11, no owner or operator subject to the provisions of 40 CFR Part 60, Subpart OOO shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than ten percent (10%) opacity, except as provided in Subsections 792.03.c., 792.03.d. and 792.03.e. (3-15-02)~~

~~**c.** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred eighty (180) days after initial startup as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than fifteen percent (15%) opacity. (3-15-02)~~

~~**d.** Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section. (3-15-02)~~

~~**e.** If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emissions limits in Subsections 792.03.a., 792.03.b. and 792.03.c., or the building enclosing the affected facility or facilities must comply with the following emission limits:~~

~~\_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ i. \_\_\_\_\_ No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ ii. \_\_\_\_\_ No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in Subsection 792.03.a. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ f. \_\_\_\_\_ On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred eighty (180) days after initial startup as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than seven percent (7%) opacity \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ g. \_\_\_\_\_ Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in Subsections 792.03.a.i. and 792.03.ii. of Section 792. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ h. \_\_\_\_\_ On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred eighty (180) days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from: \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ i. \_\_\_\_\_ Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ ii. \_\_\_\_\_ Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ i. \_\_\_\_\_ Opacity determinations for NSPS required emissions standards shall be in accordance with 40 CFR 60 as required in Subsection 625.04.c. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ **04. Visible Emissions Standards for Roads and Stockpiles.** Visible fugitive emissions from vehicle traffic on an affected paved public roadway; vehicle traffic on, or wind erosion of, an unpaved haul road; and wind erosion of any stockpile shall not exceed twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period. Opacity shall be determined using the test methods and procedures contained in Section 625. The plant is not required to have a certified opacity reader. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ **05. Performance Testing.** Performance testing shall be conducted in accordance with all applicable requirements set forth in 40 CFR 60, Subpart OOO. A written report of the results of the performance test shall be submitted to the Environmental Protection Agency (EPA) in accordance with 40 CFR 60 and a copy submitted to the Department. If performance testing has already been conducted, test documentation shall be kept at the site of operations or at another accessible location and shall be made available to Department representatives upon request. \_\_\_\_\_ (3-15-02)~~

~~\_\_\_\_\_ (3-15-02)~~

(Break in Continuity of Sections)

**794. PERMIT REQUIREMENTS.**

No owner or operator may commence construction, reconstruction, modification, or operation of any ~~source at a~~ nonmetallic mineral processing plant regardless of whether or not the source is an affected facility pursuant to 40 CFR 60.670(e) without first obtaining a permit or complying with Sections 795 through 799. The owner or operator shall comply with the permitting requirements of Subsection 794.01 or Subsection 794.02 and the applicable portions of Subsection 794.03 and/or Subsection 794.04. (3-15-02)

**01. Permit by Rule.** Owners and operators of nonmetallic mineral processing plants that meet all of the applicable requirements set forth in Sections 795 through 799 shall be deemed to have a permit by rule (PBR) and shall not be required to obtain a permit to construct under Sections 200 through 228. (3-15-02)

**02. Permit to Construct.** Owners and operators of nonmetallic mineral processing plants that do not meet all of the requirements set forth in Sections 795 through 799, or that operate or intend to operate a nonmetallic mineral processing plant at a single site of operations for more than twelve (12) consecutive months, or that choose to construct and operate under specific permit requirements rather than the provisions of the permit by rule shall obtain a permit to construct pursuant to Sections 200 through 228. An existing permit to construct shall be considered valid until the permit is modified, incorporated into a Tier II operating permit, or terminated by the Department. Existing permits to construct may be terminated by the Department by registering the source under the permit by rule provisions in accordance with Section 797 after June 15, 2001. (3-15-02)

**03. Tier I Operating Permits.** Owners and operators of nonmetallic mineral processing plants that are affected facilities subject to a requirement of the New Source Performance Standards (NSPS) in 40 CFR 60 are Tier I sources as defined in Section 006. Tier I sources must comply with the applicable permitting requirements of Sections 300 through 399. (4-11-06)

**04. Tier II Operating Permits.** Owners and operators of nonmetallic mineral processing plants that are required by the Department or choose to obtain a Tier II operating permit pursuant to Sections 400 through 410 shall operate in accordance with the specific provisions of the Tier II operating permit until such time as the operating permit is terminated in writing by the Department. The Department may require owners and operators of nonmetallic mineral processing plants to obtain a Tier II operating permit whenever the Department determines that: (3-15-02)

**a.** Emission rate reductions are necessary to attain or maintain any ambient air quality standard or applicable prevention of significant deterioration (PSD) increment; or (3-15-02)

**b.** Specific emissions standards, or requirements on operation or maintenance are necessary to ensure compliance with any applicable emission standard or rule. (3-15-02)