

State of Wisconsin  
Department of Natural Resources

MAY 05 1999

**NOTICE TO PRESIDING OFFICERS  
OF PROPOSED RULEMAKING**

Pursuant to s. 227.19, Stats., notice is hereby given that final draft rules are being submitted to the presiding officer of each house of the legislature. The rules being submitted are:

Natural Resources Board Order No. AM-38-98

Legislative Council Rules Clearinghouse Number 98-181

Subject of Rules Updating and cleanup changes  
to the NR 400 series.

Date of Transmittal to Presiding Officers May 3, 1999

**Send a copy of any correspondence or notices pertaining to this rule to:**

**Carol Turner, Rules Coordinator  
DNR Bureau of Legal Services  
LC/5, 101 South Webster**

**266-1959**

State of Wisconsin  
Department of Natural Resources

NOTICE TO PROTECTIVE OFFICERS  
OF PROPOSED RULEMAKING

Proposed rulemaking is hereby given that draft rules are being submitted to the  
protective officer in each town of the State for their being submitted to the

Protective Officer Board Order No. AM-88-28  
County of Walworth  
Name of the Yates Ferry and Adams Group  
State of Wisconsin

Date of Transmittal to Protective Officer 10/15/88

Send a copy of any correspondence or notices pertaining to this rule to:

Chief Justice, State Coordinator  
DNR Bureau of Legal Services  
1001 1st South Center

## REPORT TO LEGISLATURE

### NR 400 – 499, Wis. Adm. Code Updating and cleanup changes to the NR 400 series

Board Order No. AM-38-98  
Clearinghouse Rule No. 98-181

#### Statement of Need

Updating and cleanup changes to numerous chapters of the NR 400 series are proposed for the purposes of rule clarity, consistency between chapters of the administrative code, and consistency with DNR and U.S. EPA policies and procedures. The changes do not involve the implementation of new policies. The most significant changes are the addition of 20 compounds to those excluded from the definition of "volatile organic compound" in ch. NR 400 in accord with recent federal changes, a revision to allow less frequent inspection of internal floating roofs of storage tanks for petroleum liquids as allowed under similar federal rules, and a revision to allow a 95% overall VOC control efficiency for surface coating operations as provided in model federal rules. Other changes include:

Revision of references to federal hazardous air pollutants listed under section 112(b) of the Clean Air Act to account for subsequent additions to or deletions from the list by U.S. EPA under 40 CFR part 63, subpart C.

The addition of lines for propylene glycol monomethyl ether (PFME) in Table 2 of ch. NR 407 and Table 1 of ch. NR 438 to reflect the regulation of this compound under Table 5 of ch. NR 445.

The updating of more than 30 references to test methods incorporated by reference to cite the most recent versions.

The creation of definitions giving the meanings of certain undefined terms used in the rules to reflect the meanings currently being applied.

Restoration of an exemption from construction permit provisions, inadvertently removed in a previous rule change, for a modification which does not cause emissions to exceed general exemption levels.

The repeal of certain obsolete provisions, and style, formatting cross reference and grammar corrections and other minor changes.

#### Modifications as a Result of Public Hearing

No modifications were made as a result of the public hearing.

#### Appearances at the Public Hearing and Their Position

In support – none

In opposition – none

As interest may appear:

Robert Fassbender, HFO & Associates, 44 E. Mifflin St., Madison, WI

## Response to Legislative Council Rules Clearinghouse Report

Recommendations and corrections were generally accepted or addressed in the rule order with the following exceptions:

Under item 2.a., the third sentence in s. NR 400.02(126) was shortened to simply say that a portable source is a type of direct stationary source, and the rest of the sentence was dropped as unnecessary.

Under item 2.c., changing "(1)" to "(2)" was the needed correction

Under item 2.e., the change to "this subparagraph" was left in place because we have received verbal guidance from the Deputy Revisor of Statutes which is more recent than that contained in the October 1994 edition of the Administrative Rules Procedures Manual.

Under item 2.l., the substantive wording was kept in the definition to be consistent with the corresponding federal definition, as allowed under s. 227.14(1m), Stats. Chapter NR 447 is based on 40 CFR 61, subpart M.

Under item 2.n., the recommended change would have recreated the problem with numbering below the subdivision paragraph level which the Deputy Revisor of Statutes was eliminating when he created the structural problem noted. To meet both concerns, s. NR 489.08 was divided instead into ss. NR 489.08 and 489.085 and corresponding cross reference changes were added.

### Final Regulatory Flexibility Analysis

The owners and operators of facilities that use any of the 20 compounds to be excluded from the definition of VOC and that previously included their emissions as part of the facility VOC totals reported to the air program's annual emissions inventory will no longer be required to include these compounds in their VOC reporting and recordkeeping. On the other hand, the owner or operator of any facility which emits more than 6000 pounds per year of PGME will need to report the quantity of emissions to the air program's annual emissions inventory.

For owners and operators of fixed roof storage tanks regulated under s. NR 420.03(5), the reduction in frequency of complete cover and seal inspections will mean fewer records will have to be compiled under s. NR 420.03(5)(b)7. Giving the inspection results.

Other changes in this rule package will not affect reporting and recordkeeping of regulated facilities or the DNR.

The VOC definition portion of the rule is a relaxation of existing emission inventory reporting requirements, the provisions applicable to internal floating roofs of storage tanks relax current inspection frequency requirements, and the 95% overall VOC control efficiency provision may ease compliance requirements for some surface coating operations. Any operation permit applicant for a facility which emits more than 2000 pounds per year of PGME will need to include PGME information in the application. No part of the rule package is expected to have a significant economic impact on a substantial number of small businesses. Where businesses to experience economic impacts, they should most often be positive, and any adverse impacts are expected to be small.

ORDER OF THE STATE OF WISCONSIN  
NATURAL RESOURCES BOARD  
REPEALING, RENUMBERING, AMENDING,  
REPEALING AND RECREATING AND CREATING RULES

The Wisconsin Natural Resources Board adopts an order to **repeal** NR 406.04(2)(e) and (h), 419.08(7), 439.02(7), 422.15(1)(j), 447.02(3) Note, 448.04(4)(a)1. and 2., 484.04 Table 2 footnote 1, 484.05(9) and (10) and 484.10(12m) and (35); to **renumber** NR 400.02(1a) to (20), (21e) to (22), (22m) to (28m), (30) to (41), (42) to (43a), (43b) to (43d), (43m) to (47m), (48) to (55), (55e) to (67), (68) to (69s), (71), (75), (77) to (79), (80e) to (83), (86) to (99), (100)(intro.) and (a) to (x) and (101), 406.04(1)(i)1.(intro.) and a. to c., 440.675(2)(a)(intro.) and 1. to 18., 440.686(2)(a)(intro.) and 1. to 18. and 489.08(6); to **renumber and amend** NR 400.02(21c), (22e), (29), (41m), (43e), (70), (72), (76), (80) and (84), 406.04(1)(i)2. and (2)(i), 420.03(5)(b)6. and 7. and (6)(b)9., 438.03 Table 1 footnotes 4 and 5, 440.675(2)(a)16., 440.686(2)(a)16., 484.10(55) and (56) and 489.08(7) and (8); to **amend** NR 400 (intro.) Note, 401.05, 404.02(intro.), 405.02(21)(b)(intro.) and 5. and (22)(c), 405.07(8)(a)9., 406.04(1)(intro.), (a)(intro.), 2. and 5., (g), (h) and (j), 407.02(4)(a), 407.03(1)(g), (h) and (o) and (2)(intro.), (e) and (g), 407.04 (title), 407.04(1)(intro.) and (b)3., 407.05(4)(c)9.a., 407.05 Table 2, 407.10(6)(intro.), 407.15 (title), 408.06(2)(intro.) and (a) and (8), 409.02(34), 409.05(3)(b)2. and 3., 409.06(7)(b), 409.08(1)(d) Note, 415.02(intro.) and (9), 415.04(4)(a) and (b), 415.05 (title), 415.06 (title), (1)(c)1. and (4), 415.07 (title), 415.075 (title), 415.076 (title), 417.01(2), 417.07(5)(g), 418.01(2), 419.02(14)(intro.), 419.06(3), 419.07(1) Note and (4)(d)2.c. Note, 419.08(1)(c), (2)(intro.), (b) and (c), (3), (5) and (6)(intro.), 420.02(intro.), (31) and (41), 420.03(1)(a) and (5)(b)5., 420.04(2)(a)2. and (3)(g)1., 421.04(3)(a)2., 421.05(2)(e)3., 421.06(2)(e)3., 422.02(42), 422.04(4), 422.125(4)(intro.), 422.14(2)(intro.), (a) and (b), 422.142(5)(d), 423.03(2)(g)2., (4)(c)(intro.) and 1., (d), (h) and (k), (5)(c)(intro.) and (7)(c), 424.02(intro.), 424.03(3)(intro.), 425.02(intro.) and (2), 425.03(9)(a)(intro.) and 1., (10)(a) and (d) and (12)(a)(intro.) and 1. to 6. and 7.(intro.), 425.04(1)(b), 429.04(1)(f), 436.03(1), 436.06(3)(b)2., 438.02(2), 438.03 Table 1, 438.03(5)(a), 439.06(3)(intro.) and (h), 439.07(1) and (4), 439.08(1)(a), (d) and (f) and (2)(a) and (b), 439.085(2)(a)1., (b)1. and (c)1., 440.285(2)(k), 445.02(intro.) and (1), 445.03, 445.05(1)(a)(intro.) and 1., (4)(a)(intro.) and 1. and (6)(a)1.(intro.), a. and b., 2.(intro.), a. and b., 3.(intro.), a. and b., (b)(intro.), 1., 1m., and 2., (d)3., (f)3.(intro.) and a., (g)(intro.), 1., 1m. and 2. and (7)(b)(intro.), 1. and 2., 445.08, 446.04(3)(d) Note, 446.05(2)(a), (3)(intro.) and (b), 447.02(3), 447.08(2)(a), (3)(a)1., (4)(intro.) and (a) and (6)(a), 447.13(1)(a)4., 447.15(1)(a)1., 447.16(2), 448.03(1)(b) and (2), 448.04(4)(a)(intro.), 449.07(2)(h)3.(intro.) and a., 460.01(2), 460.10(2)(f), 460 Appendix T, 463.12(5)(b)(intro.), 468.20(1)(g), (2)(mm)(intro.), 1. and 2., (r)1. and 2., (3)(a)3., (b)(intro.), 1. and 2., (e)(intro.), 1. and 2., (f), (g) and (h), (4)(b)(intro.), 1. and 2. and (c)(intro.), 1. and 2., (5)(b)(intro.), 1., 2., 3., 4. and 5., (c)(intro.), 1. and 2., 484.03(intro.), Note and (4), 484.04(intro.), Note, (11), (13), (16), (23) and (24), 484.05(1), (3) and (8), 484.06(2) and (3) Note, 484.10(intro.), Note and (1) to (10), (13) to (16), (18), (19), (21), (22), (24), (25) to (29), (31), (32), (33), (34), (36), (37), (39) to (42), (47) to (52) and (54), 484.11(5), 485.02(8), (9) and (23), 485.04(2)(c), (8)(a) and (b) and (10)(intro.), 487.14 Table 5, 489.01(1), 489.02(intro.), (6), (22) and (23), 489.04, 489.05(1) and (2), 489.06(1) to (4), 489.08(intro.), (3)(a) and (b), (4)(a) and (b) and (5)(b) and (d)1.b., 489.10(5), 489.11, 490.025(1), 490.03(1), 492.01(1) and (2) and 493 Table 2 (1)(b)3. and (c)3. and Table 3 (1)(a)2., (b)2. and (c)2.; to **repeal and recreate** NR 406.04(4)(intro.), 408.06(2)(b), 422.03(7) and 484.05(9); and to **create** NR 400.02(55) Note, (74), (78), (87) and Note, (126) Note, (128) Note, (143) Note, (162)(x), (xa), (xb), (xc), (xd), (xe), (xf), (xg), (xh), (xi), (xj), (xk), (xL), (xm), (xn), (xo), (xp), (xq), (xr) and (y), 400.03(2)(ns) and (rg) and (4)(dg) and (ks), 401.025(3), 406.04(intro.) and (4)(h), 407.04(intro.), 407.05 Table 2 new row, 407.10(6)(a)(intro.), 420.03(5)(b)6., (c) and (d) and (6)(b)9., 421.05(3)(b)2. Note, 421.06(3)(b)2. Note, 422.03(9)(c) Note, 422.125(6)(d)6. Note, 422.142(6)(b)3. Note, 422.15(1)(k) Note, 423.05(3)(b)2. Note, 424.04(3)(b)2. Note, 424.05(6)(b)4. Note, 438.03 Table 1 footnote 4, 446.01(2) Note, 447.01(2) Note, 448.01(2) Note, 449.01(2) Note, 484.06(4), 484.10(34) Note and (55), 489.085(title) and 493.01(2) Note, relating to updating and cleanup changes to the NR 400 series.

AM-38-98

Analysis Prepared by the Department of Natural Resources

Authorizing statutes: ss. 227.11(2)(a) and 285.11(1), Stats.

Statutes interpreted: s. 285.11(6), Stats. The State Implementation Plan developed under that provision is revised.

Updating and cleanup changes are proposed to address issues of rule clarity, consistency between chapters of the Administrative Code, and consistency with DNR and U.S. EPA policies and procedures. The changes include the revision of the state air program definition of "volatile organic compound" in s. NR 400.02 to exclude 20 additional compounds now excluded from the federal definition in 40 CFR 51.100(s)(1). This means these compounds will no longer be regulated as VOCs. One compound now excluded from the federal definition perchloroethylene is not proposed for addition to the state VOC exclusion list at this time. Also

SECTION 2. NR 400.02(1a) to (99), (100)(intro.) and (a) to (x) and (101) are renumbered 400.02(2) to (99) and (101) to (161), (162)(intro.) and (a) to (w) and (z) and (163) respectively, and 400.02(35), (40), (55), (70), (79), (126), (128), (130), (135) and (143), as renumbered, are amended to read:

NR 400.02(35) "Bucket elevator" means a conveying device ~~of~~ for grain, minerals or other materials consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

(40) "Coal" means all solid fuels classified as anthracite, bituminous, ~~subbituminous~~ subbituminous or lignite by ASTM designation ~~D388-92~~ D388-97, incorporated by reference in s. NR 484.10.

(55) "Direct source" means any stationary source which may directly result in the emission of any air contaminant at a fixed location (~~e.g., building demolition, foundry, grain elevator, gravel or stone quarry, paper mill, power plant, etc.~~).

(70) "Fuel oil" means any petroleum-based fuel, including diesel fuel or petroleum derivatives such as oil tar, as defined in ASTM ~~D396-92~~ D396-97, incorporated by reference in s. NR 484.10, and any recycled or blended petroleum products or petroleum by-products used as a fuel whether in a liquid, solid or gaseous state.

(79) "Heat input" means the total gross calorific value per unit of time of all fuels being burned, where gross calorific value of a fuel is measured by ASTM Method D240-92, D1826-94 or ~~D2015-94~~ D2015-96, incorporated by reference in s. NR 484.10. Where the test method gives a higher and a lower heating value, heat input is calculated in Btu per hour using the higher heating value of the fuel.

(126) "Portable source" means any facility, installation, operation or equipment which may directly result in the emission of any air contaminant only while at a fixed location but is capable of being transported to a different location (~~e.g., portable asphalt plant, portable package boiler, portable air curtain destructor, etc.~~). ~~As A portable source is a type of direct stationary source, a modified portable source or a portable~~

(143) "Semistationary source" means any facility, operation or equipment that has the capability of emitting any air contaminant while moving, but generally does not emit while moving (e.g., diesel cranes, air compressors, and electric generators such as those used at construction sites, etc.).

SECTION 3. NR 400.02(55) Note, (74), (78), (87) and Note, (126) Note, (128) Note, (143) Note and (162)(x), (xa), (xb), (xc), (xd), (xe), (xf), (xg), (xh), (xi), (xj), (xk), (xL), (xm), (xn), (xo), (xp), (xq), (xr) and (y) are created to read:

NR 400.02(55) Note: Examples are a foundry, a grain elevator, a gravel or stone quarry, a paper mill, a power plant or the demolition of a building.

(74) "Graphic arts" means any printing operations described by 2-digit major group 27 in the Standard Industrial Classification Manual, 1987, incorporated by reference in s. NR 484.05.

(78) "Hazardous air pollutants listed under section 112(b) of the act" means the federally regulated air pollutants included in the list in section 112(b)(1) of the act (42 USC 7412(b)(1)) as revised by 40 CFR part 63 Subpart C.

(87) "Infectious waste" has the meaning given in s. 287.07(7)(c)1.c., Stats.

Note: For more detailed information on what the department treats as infectious waste, see subch. II of ch. NR 526.

(126) Note: Examples are a portable asphalt plant, a portable package boiler or a portable air curtain destructor.

(128) Note: For example, a spray booth, conveyor and drying oven are considered a process line.

(143) Note: Examples are diesel cranes, air compressors and electric generators such as those used at construction sites.

(162)(x) 3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca).

(xa) 1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb).

(xb) 1,1,1,2,3,4,4,5,5-Decafluoropentane (HFC 43-10mee).

(xc) Difluoromethane (HFC-32).

(xd) Ethylfluoride (HFC-161).

(xe) 1,1,1,3,3,3-Hexafluoropropane (HFC-236fa).

(xf) 1,1,2,2,3-Pentafluoropropane (HFC-245ca).

(xg) 1,1,2,3,3-Pentafluoropropane (HFC-245ea).

(xh) 1,1,1,2,3-Pentafluoropropane (HFC-245eb).

(xi) 1,1,1,3,3-Pentafluoropropane (HFC-245fa).

(xj) 1,1,1,2,3,3-Hexafluoropropane (HFC-236ea).

(xk) 1,1,1,3,3-Pentafluorobutane (HFC-365mfc).

(xL) Chlorofluoromethane (HCFC-31).

(xm) 1-Chloro-1-fluoroethane (HCFC-151a).

(xn) 1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a).

(xo) 1,1,1,2,2,3,3,4,4-Nonafluoro-4-methoxybutane (C<sub>4</sub>F<sub>9</sub>OCH<sub>3</sub>).

(xp) 2-(Difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF<sub>3</sub>)<sub>2</sub>CF<sub>2</sub>OCF<sub>2</sub>CH<sub>3</sub>).

(xq) 1-Ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane (C<sub>4</sub>F<sub>9</sub>OC<sub>2</sub>H<sub>5</sub>).

(xr) 2-(Ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF<sub>3</sub>)<sub>2</sub>CF<sub>2</sub>OC<sub>2</sub>H<sub>5</sub>).

(y) Methyl acetate.

SECTION 4. NR 400.03(2)(ns) and (rg) and (4)(dg) and (ks) are created to read:

NR 400.03(2)(ns) MPH - miles per hour

(rg) tpy - tons per year

(4)(dg) CERCLA - federal comprehensive environmental response, compensation, and liability act

(ks) PSD - prevention of significant deterioration

SECTION 5. NR 401.025(3) is created to read:

NR 401.025(3) RECLASSIFICATION AS ATTAINMENT. The department may issue a document to reclassify a nonattainment area to an attainment area when it has determined that the ambient air quality standard is being met in the area for the air contaminant which caused a document to be issued under sub. (1) identifying the area as nonattainment.

SECTION 6. NR 401.05 is amended to read:

NR 401.05 ISSUANCE AND REVISION OF DOCUMENTS. The department may issue or revise a document under s. NR 401.025(1) or (2) or (3) only after 30 days notice and public hearing in the region area affected. Such The hearings will not be contested cases under s. 227.01(3), Stats.

SECTION 7. NR 404.02(intro.) is amended to read:

NR 404.02 DEFINITIONS. (intro.) ~~In addition to the definitions in this section, the~~ The definitions contained in ch. NR 400 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

SECTION 8. NR 405.02(21)(b)(intro.) and 5. and (22)(c) are amended to read:

NR 405.02(21)(b)(intro.) A physical change or change in the method of operation ~~may~~ does not include:

5. Use of an alternative fuel or raw material by a stationary source ~~which~~ when one of the following applies:

a. The source was capable of accommodating the alternative fuel or raw material before January 6, 1975, unless ~~such~~ the change would be prohibited under any federally enforceable permit condition which was

established after January 6, 1975 pursuant to this chapter or ch. NR 406, 408 or under an operation permit issued pursuant to ch. NR 407.

b. The source is approved to use the alternative fuel or raw material under any permit issued under this chapter or ch. NR 406, 407 or 408.

(22)(c) Volatile organic compounds exclude the compounds listed under s. NR 400.02(100) (162) unless the compound is subject to an emission limitation under ch. NR 440 or chs. NR 446 to 449.

SECTION 9. NR 405.07(8)(a)9. is amended to read:

NR 405.07(8)(a)9. Fluorides - 0.25 g  $\mu\text{g}/\text{m}^3$ , 24-hour average.

SECTION 10. NR 406.04(intro.) is created to read:

NR 406.04 DIRECT SOURCES EXEMPT FROM CONSTRUCTION PERMIT REQUIREMENTS.

(intro.) This section does not provide an exemption from construction permit requirements for a source that is required to obtain a permit under ch. NR 405 or 408. For any direct source not required to obtain a permit under ch. NR 405 or 408, no construction permit is required prior to commencing construction, reconstruction, replacement, relocation or modification if the following conditions are met:

SECTION 11. NR 406.04(1)(intro.), (a)(intro.), 2. and 5., (g) and (h) are amended to read:

NR 406.04(1) SPECIFIC CATEGORIES OF EXEMPT SOURCES. (intro.) The following categories of direct sources are exempt from the requirement to obtain a construction permit unless construction, reconstruction, replacement, relocation or modification of the source is prohibited by any permit, plan approval or special order applicable to the source ~~or the source is required to obtain a permit under ch. NR 408 because of a significant net increase in the emissions of an air contaminant for which the area is designated nonattainment:~~

(a)(intro.) An One or more external combustion furnaces furnaces at a source which will not burn any hazardous waste identified under ch. NR 605, or which ~~has~~ have been issued a license or licenses under ch. NR 680, and ~~which~~ if no individual furnace is designed to burn the following fuels at more than the maximum rates indicated:

2. Wood alone or wood in combination with gaseous or liquid fossil fuels at a heat input rate of not more than 5.0 million Btu per hour.

5. Gaseous fossil fuel at a heat input rate of not more than 25 million Btu per hour.

(g) Painting or coating operations, including associated cleaning operations, which emit or will emit not more than 1666 pounds of volatile organic compounds per month, which are measured prior to entering any emission control devices, unless the emissions of any single hazardous air pollutant as listed under section

112(b) of the act (42 USC 7412(b)) equal or exceed 10 tons per year or the cumulative emissions of hazardous air pollutants listed under section 112(b) of the act equal or exceed 25 tons per year.

(h) Graphic arts operations, including associated cleaning operations, which emit or will emit not more than 1666 pounds of volatile organic compounds per month, which are measured prior to entering any emission control devices, unless the emissions of any single hazardous air pollutant as listed under section 112(b) of the act equal or exceed 10 tons per year or the cumulative emissions of hazardous air pollutants listed under section 112(b) of the act equal or exceed 25 tons per year

SECTION 12. NR 406.04(1)(i)1.(intro.) and a. to c. are renumbered 406.04(1)(i)(intro.) and 1. to 3.

SECTION 13. NR 406.04(1)(i)2. is renumbered 406.04(1)(i)4. and amended to read:

NR 406.04(1)(i)4. The department approves the application for exemption submitted under subd. 1. The department shall approve or deny the application in writing within 45 days of receiving a complete application ~~for exemption under this paragraph~~. The department may provide public notice of an application for research and testing exemption, may provide an opportunity for public comment and an opportunity to request a public hearing and may hold a public hearing on any application under this paragraph. The department shall make all nonconfidential information available to the public upon request.

SECTION 14. NR 406.04(1)(j) is amended to read:

NR 406.04(1)(j) A laboratory which emits volatile organic compounds, sulfur dioxide, carbon monoxide, nitrogen oxides or particulate matter or a combination thereof at a rate of less than 5.7 pounds per hour unless the emissions of any single hazardous air pollutant as listed under section 112(b) of the act equal or exceed 10 tons per year or the cumulative emissions of hazardous air pollutants listed under section 112(b) of the act equal or exceed 25 tons per year. Hourly emissions shall be determined, based on the quantitative estimate of air contaminants before they enter any emission control devices, by dividing the total uncontrolled emissions which would have occurred during a calendar month by the total hours of operation of the laboratory during that calendar month. A laboratory is in operation if laboratory apparatus or equipment is in use.

SECTION 15. NR 406.04(2)(e) and (h) are repealed.

SECTION 16. NR 406.04(2)(i) is renumbered 406.04(2)(h) and amended to read:

NR 406.04(2)(h) The source is not subject to any standard or regulation under section 111 or 112 of

construction permit under this paragraph.

SECTION 17. NR 406.04(4)(intro.) is repealed and recreated to read:

NR 406.04(4) EXCLUSIONS FROM MODIFICATION. (intro.) None of the following changes at a stationary source constitutes a modification:

SECTION 18. NR 406.04(4)(h) is created to read:

NR 406.04(4)(h) *Other changes.* A change where all of the following conditions are met:

1. The change is not prohibited by any permit, plan approval or special order applicable to the source.
2. The change is exempt under sub. (1), or the increased emissions due to the change do not exceed the maximum theoretical emission levels specified in sub. (2)(b), (c), (cm), (d) and (f).
3. The change does not trigger a requirement under section 111 or 112 of the act (42 USC 7411 or 7412).

SECTION 19. NR 407.02(4)(a) is amended to read:

NR 407.02(4)(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 ~~which has been listed pursuant to~~ 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.

SECTION 20. NR 407.03(1)(g), (h) and (o), (2)(intro.), (e) and (g) are amended to read:

NR 407.03(1)(g) Painting or coating operations, including associated quality assurance laboratories and cleaning operations, which emit or will emit not more than 1,666 pounds of volatile organic compounds per month, which are measured prior to entering any emission control devices, unless the emissions of any single hazardous air pollutant as listed under section 112(b) of the act (42 USC 7412(b)) equal or exceed 10 tons per year or the cumulative emissions of hazardous air pollutants listed under section 112(b) of the act equal or exceed 25 tons per year.

(h) Graphic arts operations, including associated quality assurance laboratories and cleaning operations, which emit or will emit not more than 1,666 pounds of volatile organic compounds per month, which are measured prior to entering any emission control devices, unless the emissions of any single hazardous air

pollutant as listed under section 112(b) of the act equal or exceed 10 tons per year or the cumulative emissions of hazardous air pollutants listed under section 112(b) of the act equal or exceed 25 tons per year.

(o) A laboratory which emits volatile organic compounds, sulfur dioxide, carbon monoxide, nitrogen oxides or particulate matter or a combination thereof at a rate of less than 5.7 pounds per hour unless the emissions of any single hazardous air pollutant as listed under section 112(b) of the act (42 USC 7412(b)) equal or exceed 10 tons per year or the cumulative emissions of all such hazardous air pollutants listed under section 112(b) of the act equal or exceed 25 tons per year. Hourly emissions shall be determined, based on the quantitative estimate of air contaminants before they enter any emission control devices, by dividing the total uncontrolled emissions which would have occurred during a calendar month by the total hours of operation of the laboratory during that calendar month. A laboratory is in operation if laboratory apparatus or equipment is in use.

(2) GENERAL CATEGORY OF EXEMPT SOURCES. (intro.) In addition to the specific categories of exempt sources identified in sub. (1), no operation permit is required for a direct source if the source is not a part 70 source or an affected source and all of the following requirements are met:

(e) The source will not have maximum theoretical emissions of any single hazardous air pollutant as ~~defined by~~ listed under section 112(b) of the act (42 USC 7412(b)) that equal or exceed 10 tons per year or cumulative maximum theoretical emissions of all the hazardous air pollutants ~~defined by~~ listed under section 112(b) of the act (42 USC 7412(b)) that equal or exceed 25 tons per year.

(g) The source is not subject to any standard or regulation under section 112 of the act (42 USC 7412). If a source is subject to regulations or requirements under section 112 only because of section 112(r) of the act (42 USC 7412(r)), the source is not for that reason required to obtain an operation permit under this paragraph.

SECTION 21. NR 407.04 (title) is amended to read:

NR 407.04 (title) PERMIT APPLICATION REQUIREMENTS.

SECTION 22. NR 407.04(intro.) is created to read:

NR 407.04(intro.) 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:

SECTION 23. NR 407.04(1)(intro.) and (b)3. are amended to read:  
 NR 407.04(1)(intro.) INITIAL FILING DATES. ~~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 on application forms available from the department by the following dates, ~~except~~ Except as provided under subs. (3) to (6), the initial operation permit application shall be submitted by one of the following dates:

(b)3. For new or modified sources for which no construction permit is required, ~~the application for an operation permit shall be filed a date~~ before the source commences construction or modification.

SECTION 24. NR 407.05(4)(c)9.a. is amended to read:

NR 407.05(4)(c)9.a. Any emissions unit, operation or activity that has, for each air contaminant, maximum theoretical emissions which are less than the levels level specified in Table 2. Multiple emissions units, operations and activities that perform identical or similar functions shall be combined in determining the applicability of the exemption under this ~~subd. 9.~~ a subparagraph.

SECTION 25. NR 407.05 Table 2 is amended to read:

NR 407.05 **Table 2**  
**Levels Of Air Contaminants For Determining Need For Inclusion In Permit Applications**

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
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
	2, 6	309-00-2	18.3

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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 (Myleran)	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	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	1	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
Carbonyl sulfide	2	463-58-1	2,000.0
Catechol (Pyrocatechol)	2, 3	120-80-9	1,459
Cesium hydroxide	3	21351-79-1	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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
Chlorinated dioxins and furans (total equivalents)	4	*	0.00001
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, <u>Trichlorofluoromethane</u> )	5	75-69-4	2,000.0
Chlorofluorocarbon-12 (CFC-12, R-12, <u>Dichlorodifluoromethane</u> )	5	75-71-8	2,000.0
Chlorofluorocarbon-13 (CFC-13, R-13, <u>Chlorotrifluoromethane</u> )	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, <u>Trichlorotrifluoroethane</u> )	5	76-13-1	2,000.0
Chlorofluorocarbon-114 (CFC-114, R-114, <u>Dichlorotetrafluoroethane</u> )	5	76-14-2	2,000.0
Chlorofluorocarbon-115 (CFC-115, R-115, <u>Monochloropentafluoroethane</u> )	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
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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
Crufomate	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	72-55-9	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-Diaminoanisoole 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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
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, 3	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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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, of average diameter 1 micrometer or less)	2	*	2,000.0
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**
Group B Pharmaceuticals (a total of all air contaminants listed as Group B Pharmaceuticals)	3	*	25**
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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
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	507-55-1	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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
Ketene	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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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	145.1
Methyl bromide	2, 3, 6	74-83-9	1,459.1
Methyl n-butyl ketone	3	591-78-6	1,459.1
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
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, 3	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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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**
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
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

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
Phenytion and sodium salt of phenytion	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**
Potassium hydroxide	3	1310-58-3	88.3
Procarbazine and procarbazine hydrochloride	3	366-70-1*	Group B Pharmaceutical
1,3-Propane sultone	2, 3	1120-71-4	25.0

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
Propargyl alcohol	3	107-19-7	145.1
β-Propiolactone	2, 3	57-57-8	25.0
Propionaldehyde	2	123-38-6	2,000.0
Propoxur	2, 3, 6	114-26-1	35.7
Propylene dichloride	2, 3	78-87-5	2,000.0
<u>Propylene glycol monomethyl ether (PGME)</u>	<u>3</u>	<u>107-98-2</u>	<u>2,000.0</u>
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	110-86-1	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	18883-66-4	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	10025-67-9	267.0
Sulfur tetrafluoride	3	7783-60-0	17.7
Sulfuryl fluoride	3, 6	2699-79-8	1459.1
Tellurium and compounds, as Te	3	13494-80-9*	7.4
TEPP	3, 6	107-49-3	3.6

Air Contaminant Name	Chemical Abstract Service Number <sup>7</sup>	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
Terphenyls	26140-60-3	3	26140-60-3	222.9
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	2, 3	1746-01-6	0.00001
1,1,2,2-Tetrachloroethane	79-34-5	2, 3	79-34-5	510.9
Tetrachloronaphthalene	1335-88-2	3	1335-88-2	145.1
Tetrahydrofuran	109-99-9	3	109-99-9	2,000.0
Thallium, soluble compounds, as Tl	7440-28-0*	3	7440-28-0*	7.4
Thionyl chloride	7719-09-7	3	7719-09-7	222.9
Thiourea	62-56-6	3	62-56-6	25.0
Thiram	137-26-8	3, 6	137-26-8	365.8
Tin (metal)	7440-31-5	3	7440-31-5	145.1
Tin organic compounds, as Sn	7440-31-5*	3	7440-31-5*	7.4
Tin oxide & inorganic compounds, except SnH <sub>4</sub> , as Sn	7440-31-5*	3	7440-31-5*	145.1
Titanium tetrachloride	7550-45-0	2	7550-45-0	2,000.0
Toluene (Toluol)	108-88-3	2, 3	108-88-3	2,000.0
Toluene-2,4-diisocyanate (TDI)	584-84-9	2, 3	584-84-9	2.9
m-Toluidine	108-44-1	3	108-44-1	656
o-Toluidine	95-53-4	2, 3	95-53-4	2.5
Total reduced sulfur and reduced sulfur compounds	*	4	*	2,000.0
Tributyl phosphate	126-73-8	3	126-73-8	182.9
1,2,4-Trichlorobenzene	120-82-1	2, 3	120-82-1	1,774.4
1,1,2-Trichloroethane	79-00-5	2, 3	79-00-5	2,000.0
Trichloroethylene	79-01-6	2, 3	79-01-6	2,000.0
Trichloronaphthalene	1321-65-9	3	1321-65-9	365.8
2,4,5-Trichlorophenol	95-95-4	2	95-95-4	2,000.0
2,4,6-Trichlorophenol	88-06-2	2	88-06-2	2,000.0
1,2,3-Trichloropropane	96-18-4	3	96-18-4	2,000.0
Triethylamine	121-44-8	2	121-44-8	2,000.0
Trifluralin	1582-09-8	2	1582-09-8	2,000.0
Trimellitic anhydride	552-30-7	3	552-30-7	2.9
Trimethyl benzene, mixed isomers	25551-13-7	3	25551-13-7	2,000.0
2,2,4-Trimethylpentane	540-84-1	2	540-84-1	2,000.0
Triorthocresyl phosphate	78-30-8	3	78-30-8	7.4
Triphenyl phosphate	115-86-6	3	115-86-6	218.6
Tris(1-aziridinyl)phosphine sulfide	52-24-4	3	52-24-4	Group B Pharmaceutical
Tungsten - as W, insoluble compounds	7440-33-7*	3	7440-33-7*	365.8
Tungsten - as W, soluble compounds	7440-33-7*	3	7440-33-7*	73.6
Uranium (natural), soluble & insoluble compounds, as U	7440-61-1*	3	7440-61-1*	14.5

Air Contaminant Name	Sources of Regulation (See Footnotes Below)	Chemical Abstract Service Number <sup>7</sup>	Inclusion Level (lbs/yr)
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
Vinyl toluene	3	25013-15-4	2,000.0
Volatile organic compounds (Reactive organic gases)	1	*	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 means any compound which can be described by the following chemical formula:  $R(OCH_2CH_2)_n-OR'$

where:  $n = 1, 2$  or  $3$

$R =$  alkyl C7 or less

or  $R =$  phenyl or alkyl substituted phenyl

$R' =$  H, alkyl C7 or less or

OR' = ester, sulfate, phosphate, nitrate or sulfonate

(i.e. any group that will readily come off)

\* 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.

SECTION 26. NR 407.10(6)(intro.) is amended to read:

NR 407.10(6)(intro.) Notwithstanding the existence of a general operation permit for a stationary source category to which an individual source belongs, no individual source may be covered by a general operation permit if any of the following apply:

SECTION 27. NR 407.10(6)(a)(intro.) is created to read:

NR 407.10(6)(a)(intro.) Both of the following apply:

SECTION 28. NR 407.15 (title) is amended to read:

NR 407.15 (title) PERMIT SUSPENSION AND REVOCATION.

SECTION 29. NR 408.06(2)(intro.) and (a) are amended to read:

NR 408.06(2)(intro.) Prior to the issuance of a permit under this chapter, federally enforceable emissions offsets shall be obtained from the same source or other sources in the same nonattainment area, except that the emissions offsets may be obtained from a source in another nonattainment area if both of the following apply:

(a) The other area has an equal or higher nonattainment classification than the area in which the source is located; ~~and~~.

SECTION 30. NR 408.06(8) is amended to read:

NR 408.06(8) No emissions reduction credit may be allowed for reductions in any organic compound specifically excluded from the definition of "VOC" in s. NR 400.02(100) (162).

SECTION 31. NR 409.02(34) is amended to read:

NR 409.02(34) "Diesel fuel" means a low sulfur fuel oil of grades 1-D or 2-D, as defined in ASTM ~~D975-91~~ D975-97, incorporated by reference in s. NR 484.10.

SECTION 32. NR 409.04(3)(b)2. and (4)(a)1. are amended to read:

NR 409.04(3)(b)2. Issuing and noticing to the public an analysis on the approvability of the request as specified in s. 285.62(2) ~~and (3)~~, Stats.; and

(4)(a)1. For petroleum or petroleum products that the unit burns starting on the first day on which the exemption takes effect until the exemption terminates, a sample of each delivery of fuel shall be tested using

ASTM methods ~~D4057-88~~ D4057-95 and ~~D129-91~~ D129-95, ~~D2622-92~~ D2622-94 or D4294-90, incorporated by reference in s. NR 484.10.

SECTION 33. NR 409.05(3)(b)2. and 3. are amended to read:

NR 409.05(3)(b)2. Issuing an analysis and preliminary determination on the approvability of the request for the exemption under s. 285.62(6) ~~(3)~~, Stats.; and

3. Issuing a proposal to issue or deny the exemption request that is treated as a proposed permit under s. ~~144.3925(5m)~~ 285.62(6), Stats.

SECTION 34. NR 409.06(7)(b) is amended to read:

NR 409.06(7)(b) Any person who knowingly makes a false, material statement in any record, submission or report under the acid rain program shall be subject to criminal enforcement by the department pursuant to ch. NR 494 and ss. ~~285.85~~ 285.83 and 285.87, Stats.

SECTION 35. NR 409.08(1)(d) Note is amended to read:

NR 409.08(1)(d) Note: Application forms may be obtained from the ~~district and area~~ regional offices of the department or from the Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707-7921, Attention: Operation permits.

SECTION 36. NR 415.02(intro.) and (9) are amended to read:

NR 415.02 DEFINITIONS. (intro.) ~~In addition to the definitions in this section, the~~ The definitions in ch. NR 400 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

SECTION 37. NR 415.04(4)(a) and (b) are amended to read:

NR 415.04(4)(a) If paved, roadways and public trafficable areas ~~covered by~~ subject to this subsection shall be kept, through a program of periodic cleaning, reasonably free of material likely to become airborne. This paragraph does not apply to a public trafficable area of less than 20,000 contiguous square feet in area unless the public trafficable area is also a roadway.

(b) If unpaved, roadways and public trafficable areas ~~covered by~~ subject to this subsection shall be paved with asphalt, concrete or other material approved by the department, or use other methods of dust control which the department approves as representing RACT for the particular roadway or public trafficable area. Such other methods of dust control which may be approved by the department include but are not limited to periodic application of water or suitable chemicals. In reviewing and acting upon plans required by sub. (5) for compliance with this subsection, the department shall consider the effects of the use of paving or other methods of dust control upon the rate and volume of surface water runoff and water quality. This paragraph does not apply to roadways or to public trafficable areas which have less than 20,000 contiguous square feet of unpaved surface area.

SECTION 38. NR 415.05 (title) is amended to read:

NR 415.05 (title) PARTICULATE MATTER EMISSION LIMITS FOR PROCESSES.

SECTION 39. NR 415.06 (title), (1)(c)1. and (4) are amended to read:

NR 415.06 (title) PARTICULATE MATTER EMISSION LIMITS FOR FUEL BURNING

INSTALLATIONS.

(1)(c)1. Installations of 250 million Btu per hour or less: maximum emission defined by the equation

$$E = 0.3 - 0.0006I \quad 0.0006I$$

where I is heat input in millions of Btu per hour and E is maximum allowable particulate matter emissions from any stack in pounds per million Btu heat input.

(4) Notwithstanding sub. (3)(a) or (b), any fuel burning installation of 250 million Btu per hour or less on which construction or modification was commenced on or before April 1, 1972 may emit up to, but not more than, an emission rate defined by the equation

$$E = 0.3 - 0.0006I \quad 0.0006I$$

where I is the heat input in millions of Btu per hour and E is the maximum allowable particulate matter emissions from any stack in pounds per million Btu heat input, if as of March 1, 1980 for installations which may cause an impact on primary or associated secondary nonattainment areas, or as of March 1, 1982 for installations which may cause an impact on any other secondary nonattainment area, the installation has an emission rate based on original design or equipment performance test conditions, whichever is more restrictive, which is less than the limit set by the above equation, and the emission control system of such installations has not been allowed to degrade more than 0.05 pound per million Btu heat input from original design or acceptance performance test conditions.

SECTION 40. NR 415.07 (title) is amended to read:

NR 415.07 (title) PARTICULATE MATTER EMISSION LIMITS FOR INCINERATORS.

SECTION 41. NR 415.075 (title) is amended to read:

NR 415.075 (title) PARTICULATE MATTER EMISSION LIMITATIONS FOR LEDGE ROCK QUARRIES AND INDUSTRIAL SAND MINES.

SECTION 42. NR 415.076 (title) is amended to read:

NR 415.076 (title) PARTICULATE MATTER EMISSION LIMITATIONS FOR CRUSHED STONE AND SAND AND GRAVEL PLANTS.

SECTION 43. NR 417.01(2) is amended to read:

NR 417.01(2) PURPOSE. This chapter is adopted under ss. ~~285.31~~ 285.11, 285.13 and 285.17, Stats., to categorize sulfur dioxide and sulfur compound air contaminant sources and to establish emission limitations for these sources in order to protect air quality.

SECTION 44. NR 417.07(5)(g) is amended to read:

NR 417.07(5)(g) The projected annual emissions of sulfur dioxide from the source, resulting from the proposed alternate emission limitation, will not exceed the annual sulfur dioxide emissions from the source in calendar years 1979 to 1983, either in terms of the highest total tons of sulfur dioxide per calendar year or in terms of the highest annual average emission rate, as expressed in pounds of sulfur dioxide per million Btu for steam generating units or fuel burning equipment or in pounds of sulfur dioxide per ton of air dried unbleached pulp for process sources at a kraft mill or sulfite mill. This condition does not apply to a source which is authorized by statute to increase its annual emissions of sulfur dioxide, ~~to a major utility which is subject to s. 144.385, Stats.,~~ to fuel burning equipment which had the capability of firing residual fuel oil but which

derived more than 50% of its annual heat input from natural gas for each calendar year from 1979 to 1983, or to fuel burning equipment which had the capability of firing coal but which derived more than 50% of its annual heat input from wood or wood waste for each calendar year from 1979 to 1983.

SECTION 45. NR 418.01(2) is amended to read:

NR 418.01(2) PURPOSE. This chapter is adopted under ss. ~~285.31~~ 285.11, 285.13 and 285.17, Stats., to categorize sources of sulfur dioxide and other sulfur compounds into separate source categories and to establish emission limitations for these categories of sources in order to protect air quality.

SECTION 46. NR 419.02(14)(intro.) is amended to read:

NR 419.02(14)(intro.) "Photochemically reactive organic ~~substances~~ compounds" means any of the following:

SECTION 47. NR 419.06(3) is amended to read:

NR 419.06(3) TANK LOAD OUT FOR HIGH THROUGHPUT FACILITIES. At facilities with over 151,412 liters (40,000 gallons) per day throughput, a vapor collection and disposal system, vapor collection adaptors and vapor-tight seal, or an underfill method with the top hatches partially closed or a means of creating a slight back pressure when loading ~~tank trucks or trailers~~ delivery vessels shall be used.

SECTION 48. NR 419.07(1) Note and (4)(d)2.c. Note are amended to read:

NR 419.07(1) Note: Certain contaminated soils and water are hazardous wastes. Due to the "mixture", "derived from", and "contained in" rules found in ch. NR 605, soils and water contaminated by listed hazardous waste under s. NR 605.09(2), Table II or III, are also hazardous wastes. In addition, any residue or contaminated soil, water or other debris resulting from the cleanup of a spill of any material listed in Table IV or V of s. NR 605.09(3) is a listed hazardous waste. Soils, water or other debris may also be considered hazardous waste when they exhibit a hazardous characteristic under one of the test procedures of s. NR 605.08, including the toxicity characteristic leaching procedure test. Contaminated soils and water must be evaluated for the applicability of hazardous waste management rules (chs. NR 600 to 685). The requirements in chs. NR 600 to 685 for the treatment, storage or disposal of hazardous waste must be followed if the contaminated soil or water is hazardous waste. Requirements in chs. NR 700 to 750 may also apply.

(4)(d)2.c. Note: ~~Chapter NR 722~~ Section NR 722.09(4) has further limitations on the amount of contaminated soil that may be disposed of in landfills.

SECTION 49. NR 419.08(1)(c), (2)(intro.), (b) and (c), (3), (5) and (6)(intro.) are amended to read:

NR 419.08(1)(c) Any owner or operator of an iron or steel foundry or core manufacturing facility having annual emissions less than the applicability thresholds in par. (b) shall comply with the ~~reporting~~ recordkeeping requirements of sub. ~~(7)~~ (6) for that facility.

mold manufacturing system which produces cores or molds for use at iron or steel foundries may cause, allow or permit the operation of the system unless all of the following requirements are met:

- (b) All core and mold coating storage vessels and containers remain covered whenever product is not being moved into or out of the vessel or container, ~~and~~
- (c) Emissions of ~~any VOC resulting from~~ the organic gases used in the catalysis step in the formation of a urethane cold box binder binders are controlled with an overall efficiency of at least 90%.

(3) **COMPLIANCE AND CERTIFICATION DEADLINES.** (a) Final compliance with the requirements of sub. (2) shall be achieved by May 31, 1995 or upon startup, whichever is later.

(b) The owner or operator shall submit certification to the department, ~~no later than~~ by July 1, 1995 or within 90 days after startup, whichever is later, that the facility is in compliance with the requirements of sub. (2), as demonstrated by the applicable testing methods of s. NR 439.06(3).

(5) **EMISSION CONTROL SYSTEM MONITORING.** The owner or operator of any facility which uses a wet scrubber to ~~control VOC~~ organic gas emissions from the catalysis of urethane cold box binders shall continuously measure and record the pH of the scrubber liquid in addition to meeting the monitoring requirements of s. NR 439.055(1)(e).

(6) **RECORDKEEPING.** (intro.) Owners or operators of a facility subject to this section, including those exempt from the requirements of sub. (2) under sub. (1)(b), shall maintain the following records in accordance with s. NR 439.04(1) to (3):

SECTION 50. NR 419.08(7) is repealed.

SECTION 51. NR 420.02(intro.), (31) and (41) are amended to read:

NR 420.02 DEFINITIONS. (intro.) The definitions contained in chs. NR 400 and 419 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter and chs. NR 420 to 421 and 425:

(31) "Reid vapor pressure" means the absolute vapor pressure of volatile crude petroleum and volatile nonviscous petroleum liquids except liquified petroleum gases as determined by ASTM ~~D323-90~~ D323-94, incorporated by reference in s. NR 484.10.

(41) "Waxy, heavy pour crude petroleum" means a crude petroleum with a pour point of 10°C (50°F) or higher as determined by ASTM ~~D97-93~~ D97-96a, incorporated by reference in s. NR 484.10.

SECTION 52. NR 420.03(1)(a) is amended to read:

NR 420.03(1)(a) Storage vessels being used for number 2 through number 6 fuel oils as specified in ASTM ~~D396-92~~ D396-97, gas turbine fuel oils numbers 2-GT through 4-GT as specified in ASTM ~~D2880-92~~

D2880-96, or diesel fuel oils numbers 2-D and 4-D as specified in ASTM ~~D975-92a~~ D975-97. These ASTM standards are incorporated by reference in s. NR 484.10.

SECTION 53. NR 420.03(5)(b)5. is amended to read:

NR 420.03(5)(b)5. Routine inspections are conducted through roof hatches at monthly intervals during the ozone season. These routine inspections shall include, at a minimum, a visual examination to determine that the roof is resting on the liquid surface, no liquid has accumulated on the roof, no seal is detached and that there are no tears or holes in the seal material.

SECTION 54. NR 420.03(5)(b)6. and 7. are renumbered 420.03(5)(b)7. and 8. and 420.03(5)(b)7. and 8.(intro.) and a., as renumbered, are amended to read:

NR 420.03(5)(b)7. A complete inspection of cover and seal is conducted ~~whenever the tank is emptied or at least every 5 years, whichever is more frequent~~ periodically as required by par. (c).

8.(intro.) Records are maintained and retained for a minimum of ~~2~~ 5 years, unless otherwise noted, that shall include both of the following:

a. The results of inspections conducted under subs. 5. and ~~6.~~ 7., including LEL readings, if applicable. All LEL readings and inspection report records shall be maintained for a minimum of 10 years if the facility elects to comply with par. (c) through use of par. (c)2.

SECTION 55. NR 420.03(5)(b)6. is created to read:

NR 420.03(5)(b)6. The vessel is repaired or removed from service as expeditiously as practicable, but no later than 45 days after any routine inspection in which any of the defects described in subd. 5. are found, unless an extension is granted by the department. If a defect identified in subd. 5. cannot be repaired or the vessel removed from service within 45 days, a one time 30 day extension may be requested by the owner or operator. The department may grant such a request if the owner or operator demonstrates that alternative storage capacity is not available or that repair or removal of the tank from service is infeasible for reasons beyond the control of the owner or operator.

SECTION 56. NR 420.03(5)(c) and (d) are created to read:

NR 420.03(5)(c) *Complete inspection requirements.* All fixed roof storage vessels at a facility to which this subsection applies are required to periodically undergo a complete inspection of cover and seal, and all shall use either subd. 1. or 2. to demonstrate compliance. No facility may use different compliance methods for different fixed roof storage vessels to comply with this paragraph. The complete inspection shall be conducted according to one of the following schedules:

1. Whenever a fixed roof storage vessel is emptied and degassed or at least every 5 years, whichever is more frequent.

2. Whenever a fixed roof storage vessel is emptied and degassed or at least every 10 years, whichever is more frequent, if all of the following requirements are met:

a. The routine monthly inspections during the ozone season, in addition to meeting the requirements of par. (b)5., include the measurement with an explosimeter of the organic vapor space above the internal floating roof to demonstrate that the organic vapor concentration does not exceed 50% of the lower explosive limit (LEL) for the stored petroleum liquid.

b. The fixed roof storage vessel is repaired or removed from service as expeditiously as practicable, but no later than 45 days after the completion of the routine inspection if any of the defects described in par. (b)5. are found or if the measurement required under subpar. a. exceeds 50% of the LEL.

c. Repair steps meeting the requirements of subpar. b. may include tests, maintenance or inspections followed by LEL measurements below 50% within 45 days of the initial LEL reading exceeding 50% that confirm further repair or removal of the tank from service is not warranted.

(d) *Notification and change of compliance method requirements.* All existing facilities which have one or more storage vessels subject to par. (c) shall notify the department in writing, by January 3, 2000, as to whether the facility will comply with this section under the provisions of par. (c)1. or 2. After January 3, 2000, a facility owner or operator may only change the compliance option from par. (c)1. to par. (c)2. after completing a complete inspection of every affected fixed roof storage vessel at the facility. For any newly constructed facility, the owner or operator shall notify the department prior to commencing operation as to which compliance option will be used. A facility owner or operator may at any time elect to change the compliance option from par. (c)2. to par. (c)1. provided the following conditions are met:

1. The facility owner or operator notified the department, in writing, at least 30 days prior to the date on which the facility owner or operator plans to begin meeting the requirements of par. (c)1.

2. All tanks at the facility were found to be in compliance with the 50% LEL requirement of par. (c)2. during their last LEL measurement.

SECTION 57. NR 420.03(6)(b)9. is renumbered 420.03(6)(b)10. and 420.03(6)(b)10.(intro.) is amended to read:

NR 420.03(6)(b)10.(intro.) Records are maintained and retained for a minimum of 2 5 years that shall include:

SECTION 58. NR 420.03(6)(b)9. is created to read:

NR 420.03(6)(b)9. The vessel is repaired or removed from service as expeditiously as practicable, but no later than 45 days after the completion of the routine inspection under subd. 7. or the annual inspection under subd. 8. if the inspection reveals a failure to meet any of the requirements of subd. 2.

SECTION 59. NR 420.04(2)(a)2. and (3)(g)1. are amended to read:

NR 420.04(2)(a)2. Bulk plant unloading facilities, the delivery vessels receiving gasoline from bulk plants, and the operation of transferring gasoline from bulk plant to delivery vessel when the transfer takes place outside the counties of Brown, Calumet, Dane, Dodge, Door, Fond du Lac, Jefferson, Kenosha, Kewaunee, Manitowoc, Milwaukee, Outagamie, Ozaukee, Racine, Rock, Sheboygan, Walworth, Washington, Waukesha and Winnebago or when the gasoline is delivered exclusively to facilities exempted from the requirements of sub. (3) by sub. (3)(a)1., 2., 3., 4., 5. or 6. However, the requirements of pars. (b) to (g) do apply if gasoline is transferred during the ozone season to a delivery vessel whose last previous delivery was to a gasoline dispensing facility, either inside or outside ~~Wisconsin~~ this state, which is required to have a vapor balance system.

(3)(g)1. Install all necessary control systems and make all necessary process modifications in accordance with ~~sub. (3)~~ pars. (b), (c), (d) and (e).

SECTION 60. NR 421.04(3)(a)2. is amended to read:

NR 421.04(3)(a)2. An incineration or catalytic oxidation system which oxidizes at least 90% of the nonmethane VOCs (measured as total combustible carbon which enter the incineration or oxidation unit, to ~~non-organic~~ nonorganic compounds.

SECTION 61. NR 421.05(2)(e)3. is amended to read:

NR 421.05(2)(e)3. Notwithstanding subd. 1., if less than or equal to 2% of the valves monitored pursuant to subd. 1. are found ~~not~~ to leak for 5 consecutive quarters, monitoring of valves under subd. 1. ~~shall~~ will not be required for the following 3 consecutive quarters. Monitoring shall be conducted during the next quarter and every fourth quarter thereafter. If, during monitoring required under this subdivision, more than 2% of valves monitored are found to leak, quarterly monitoring under subd. 1. shall be reinstated in the next quarter.

SECTION 62. NR 421.05(3)(b)2. Note is created to read:

NR 421.05(3)(b)2. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 63. NR 421.06(2)(e)3. is amended to read:

NR 421.06(2)(e)3. Notwithstanding subd. 1., if less than or equal to 2% of the valves monitored pursuant to subd. 1. are found not to leak for 5 consecutive quarters, monitoring of valves under subd. 1. shall will not be required for the following 3 consecutive quarters. Monitoring shall be conducted during the next quarter and every fourth quarter thereafter. If, during monitoring required under this subdivision, more than 2% of valves monitored are found to leak, quarterly monitoring under subd. 1. shall be reinstated in the next quarter.

SECTION 64. NR 421.06(3)(b)2. Note is created to read:

NR 421.06(3)(b)2. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 65. NR 422.02(42) is amended to read:

NR 422.02(42) "High performance architectural coating" means a coating which meets the requirements specified in Architectural Aluminum Manufacturer's Association publication number AAMA 605.2-85 605.2-92, incorporated by reference in s. NR 484.11.

SECTION 66. NR 422.03(7) is repealed and recreated to read:

NR 422.03(7) Coatings and inks which are subject to an emission limitation under this chapter, but which do not comply with the applicable emission limitation, if the aggregate use of these noncompliant coatings and inks at the facility does not exceed 55 gallons during any 12 consecutive months.

SECTION 67. NR 422.03(9)(c) Note is created to read:

NR 422.03(9)(c) Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 68. NR 422.04(4) is amended to read:

NR 422.04(4) CAPTURE SYSTEMS. The design, operation and efficiency of any capture system used in conjunction with sub. (2)(b), (c) or (d) shall be certified in writing by the owner or operator. The efficiency of the capture system is subject to approval by the department ~~and, for~~ For sources ~~covered under ss. NR 422.05 to 422.135 or 422.145 to 422.155~~ subject to an emission limitation under this chapter which is expressed in units of pounds VOC per gallon of coating or ink, excluding water, the efficiency of the capture

$$E = \sum_{i=1}^n (A_i B_i C_i / D_i)$$

where:

E is the total allowable daily emissions of VOCs in kilograms (pounds) from all coatings or inks subject to the same numerical emission limitation and applied on the controlled line

i is the subscript denoting an individual coating or ink

n is the number of different coatings or inks applied

A<sub>i</sub> is the allowable emission rate for the coatings or inks pursuant to ~~ss. NR 422.05 to 422.135 and 422.145 to 422.155~~ the requirements of this chapter in kilograms per liter (pounds per gallon) of coating or ink, excluding water, delivered to the applicator

B<sub>i</sub> is the amount of coating material or ink in liters (gallons), delivered to the applicator during the actual production day

C<sub>i</sub> is the volume fraction of solids in the coating or ink, delivered to the applicator during the actual production day

D<sub>i</sub> is the theoretical volume fraction of solids in the coating or ink necessary to meet the allowable emission rate pursuant to ~~ss. NR 422.05 to 422.135 and 422.145 to 422.155~~ the requirements of this chapter calculated from:

$$D_i = 1 - [A_i / P_i]$$

where:

P<sub>i</sub> is the density of the VOC used in the coating or ink delivered to the applicator during the actual production day in kilograms per liter (pounds per gallon). If the coating or ink does not contain any VOCs, or if the actual VOC density cannot be demonstrated by the owner or operator, a value of 0.88 kilograms per liter (7.36 pounds per gallon) shall be used for P.

SECTION 69. NR 422.125(4)(intro.) is amended to read:

NR 422.125(4)(intro.) APPLICATION TECHNOLOGY. ~~After September 1, 1996,~~ After September 1, 1996, an owner or operator of a wood furniture manufacturing facility shall only apply finishing materials using electrostatic application, flow coating, dip coating, a low-pressure spray method, paint brush, hand roller or roll coater with the following exceptions:

SECTION 70. NR 422.125(6)(d)6. Note is created to read:

NR 422.125(6)(d)6. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 71. NR 422.14(2)(intro.), (a) and (b) are amended to read:

NR 422.14(2)(intro.) EMISSION LIMITATIONS. No owner or operator of a packaging rotogravure, publication rotogravure, or flexographic printing line may operate, or cause, allow or permit the operation of the line unless one of the following requirements is met:

(a) The volatile fraction of ink, as it is applied to the substrate, contains 25% by volume or less of VOC and 75% by volume or more of water;

(b) The ink, as it is applied to the substrate, less water, contains 60% by volume or more nonvolatile material; ~~or.~~

SECTION 72. NR 422.142(5)(d) is amended to read:

NR 422.142(5)(d) The vapor pressure of each VOC in blanket or roller wash shall be determined by ASTM ~~D2879-92~~ D2879-96, incorporated by reference in s. NR 484.10.

SECTION 73. NR 422.142(6)(b)3. Note is created to read:

NR 422.142(6)(b)3. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 74. NR 422.15(1)(j) is repealed.

SECTION 75. NR 422.15(1)(k) Note is created to read:

NR 422.15(1)(k) Note: This section does not apply to the silk screening of metal parts and products. These operations are regulated under s. NR 422.145.

SECTION 76. NR 423.03(2)(g)2., (4)(c)(intro.) and 1., (d), (h) and (k), (5)(c)(intro.) and (7)(c) are amended to read:

NR 423.03(2)(g)2. Located inside Kenosha, Kewaunee, Manitowoc, Milwaukee, Ozaukee, Racine, Sheboygan, Washington or Waukesha county and whose ~~emission~~ emissions of VOCs ~~from wipe-cleaning operations~~ are not more than 6.8 kilograms (15 pounds) in any one day is exempt from the requirements of sub. (7)(d).

(4)(c)(intro.) Install and use one of the following control devices:

1. ~~A~~ Except when par. (o) applies, a freeboard ratio equal to or greater than 0.75 for all degreasers, with a powered or mechanically assisted cover if the for any degreaser with an opening which is greater than 1.0 square meter (10.8 square feet).

(d) ~~Not position~~ Position any ventilation fans so ~~as to~~ that they do not disturb the degreaser's vapor zone, ~~nor provide and limit exhaust ventilation exceeding to~~ 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreaser open area during the ozone season, unless a higher exhaust

rate is necessary to meet OSHA requirements.

(h) ~~Not degrease~~ Prevent porous or absorbent materials, such as cloth, leather, wood or rope, from entering the degreaser.

(k) ~~Not operate~~ Operate the degreaser ~~so as to allow~~ in a manner that prevents water ~~to be~~ from being visually detectable in solvent exiting the water separator.

(5)(c)(intro.) Install and use one of the following control devices:

(7)(c) ~~Not allow~~ Follow operating procedures which prevent solvent ~~to drip~~ from dripping from the applicator during solvent application.

SECTION 77. NR 423.05(3)(b)2. Note is created to read:

NR 423.05(3)(b)2. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 78. NR 424.02(intro.) is amended to read:

NR 424.02 DEFINITIONS. (intro.) ~~In addition to the definitions in this section, the~~ The definitions contained in chs. NR 400, 419, 420 and 421 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

SECTION 79. NR 424.03(3)(intro.) is amended to read:

NR 424.03(3) ELECTION. (intro.) Surface coating and printing processes subject to the requirements of this section may instead elect, with the approval of the department, to meet the emission limitations of ss. NR 422.01 to 422.155, notwithstanding ss. NR 422.03(1), (2), (3) ~~or~~, (4) or (4m) and 425.03, provided that all of the following requirements are met:

SECTION 80. NR 424.04(3)(b)2. Note is created to read:

NR 424.04(3)(b)2. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 81. NR 424.05(6)(b)4. Note is created to read:

NR 424.05(6)(b)4. Note: "Maximum theoretical emissions" has the meaning given in s. NR 419.02(11).

SECTION 82. NR 425.02(intro.) and (2) are amended to read:

NR 425.02 DEFINITIONS. (intro.) ~~In addition to the definitions in this section, the~~ The definitions contained in chs. NR 400, 419, 420 and 421 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

(2) "Hydrophobic substrate" means any substrate that is resistant to or avoids wetting. This may

include but is not limited to polyethylene, polypropylene, cellophane, metalized polyester, nylon and ~~mylar~~ polyester film.

SECTION 83. NR 425.03(9)(a)(intro.) and 1., (10)(a) and (d) and (12)(a)(intro.), 1. to 6. and 7. (intro.) are amended to read:

NR 425.03(9)(a)(intro.) This subsection applies only to a leather coating facility in existence on January 1, 1994 and which is one of the following:

1. Located in the county of Door, Kewaunee, Manitowoc, Sheboygan or Walworth, ~~or.~~

(10)(a) This subsection applies only to sources constructed or last modified before March 1, 1990 which fail to meet an applicable VOC emission limitation of chs. NR 419 to 424 as a result of the amendment to s. NR 400.02(100) (162) which became effective on March 1, 1990.

(d) The department may, by order issued under ss. 285.13(2) and 285.83, Stats., authorize a source not in compliance with an emission limitation prescribed in chs. NR 419 to 424 as a result of the amendment to s. NR 400.02(100) (162) which became effective on March 1, 1990 to achieve compliance as expeditiously as

practicable but not later than March 1, 1993. The department shall hold a public hearing in accordance with its rules prior to authorizing any period of delayed compliance which exceeds 30 days in duration. No order

under this subsection may be issued unless the requirements of s. NR 436.04(2)(g) and (h) are satisfied.

(12)(a)(intro.) This subsection applies only to a facility which ~~is~~ was in existence on January 1, 1994 and to which one of the following applies:

1. Prior to January 1, 1994 the facility was exempt from the requirements of ss. NR 422.04 to 422.155 under ss. NR 422.03(1) or (2), ~~or.~~

2. Is The facility is located in the county of Door or Kewaunee and ~~which~~ prior to January 1, 1994 was exempt from the requirements of ss. NR 422.05 to 422.08, 422.09 to 422.13, 422.15 or 422.155 under s. NR 422.03(3), ~~or.~~

3. Is The facility is located in the county of Kenosha, Milwaukee, Ozaukee, Racine, Washington or Waukesha and ~~which~~ prior to January 1, 1994 was exempt from the requirements of s. NR 422.14 under s. NR 422.03(4), ~~or.~~

4. ~~Fails~~ The facility fails to meet an emission limitation applicable under s. NR 422.14(2)(c) as a result of the amendment to s. NR 422.14(3) which became effective on January 1, 1994, ~~or.~~

5. Prior to January 1, 1994 the facility was exempt from the requirements of s. NR 422.15 under s. NR 422.15(1)(e), or (g) or (j), or.

6. ~~Fails~~ The facility fails to meet an emission limitation applicable under s. NR 422.15(2) or (3) as a result of the amendment to s. NR 422.15(5)(intro.) which became effective on January 1, 1994, ~~or.~~

or (6) for one of the following reasons:

SECTION 84. NR 425.04(1)(b) is amended to read:

NR 425.04(1)(b) Except for the provisions of s. NR 419.03(1) and (2), the requirements of chs. NR 419 to 425 ~~424~~ do not apply to the use or application of insecticides, pesticides or herbicides or to the use or emission of organic compounds which have been determined to have negligible photochemical reactivity as listed in s. NR 400.02(100) (162).

SECTION 85. NR 429.04(1)(f) is amended to read:

NR 429.04(1)(f) Burning at rural or isolated solid waste disposal sites outside of the Southeastern Wisconsin Intrastate AQCR which have been ~~granted a written exemption~~ approved under s. NR 506.04, or burning of special waste where permits are obtained from the department.

SECTION 86. NR 436.03(1) is amended to read:

NR 436.03(1) GENERAL PROHIBITION. No person may cause, allow or permit emissions ~~into the ambient air~~ in excess of the limits set in chs. NR 400 to 499. Where a numerical limit is specified as a 2 digit integer in which the second digit is zero, the zero is a significant figure.

SECTION 87. NR 436.06(3)(b)2. is amended to read:

NR 436.06(3)(b)2. Evaluate through ambient air quality monitoring ~~and/or~~ or dispersion modeling or ~~both~~ the air quality impact of granting the variance and determine that maintenance of the primary standards is not being endangered.

SECTION 88. NR 438.02(2) is amended to read:

NR 438.02(2) "Source classification code" means an 8-position code which represents a process or function associated with a point of air contaminant emissions, as set forth by EPA in the ~~AIRS Facility Subsystem Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants, EPA 450/4-90-003, March 1990~~ FIRE Version 6.01, incorporated by reference in s. NR 484.05 ~~484.06~~.

SECTION 89. NR 438.03 Table 1 is amended to read:

NR 438.03

Table 1

Air Contaminant Name	CAS Number	Reporting Level (lbs/yr)
Acetaldehyde	75-07-0	6,000
Acetamide	60-35-5	6,000

Air Contaminant Name	CAS Number	Reporting Level (lbs/yr)
Acetic acid	64-19-7	6,000
Acetic anhydride	108-24-7	4,436
Acetonitrile	75-05-8	6,000
Acetophenone	98-86-2	6,000
2-Acetylaminofluorene	53-96-3	6,000
Acrolein	107-02-8	91
Acrylamide	79-06-1	105
Acrylic acid	79-10-7	6,000
Acrylonitrile	107-13-1	12
Adriamycin	23214-92-8	12
Aflatoxins	1402-68-2	12
Aldrin	309-00-2	91
Allyl alcohol	107-18-6	1,829
Allyl chloride	107-05-1	1,093
Aluminum alkyls	7429-90-5 <sup>2</sup>	725
Aluminum pyro powders	7429-90-5 <sup>2</sup>	1,829
Aluminum soluble salts	7429-90-5 <sup>2</sup>	725
2-Aminoanthraquinone	117-79-3	125
4-Aminobiphenyl	92-67-1	12
Amitrole	61-82-5	73
<sup>3</sup> Ammonia	7664-41-7	6,000
Aniline	62-53-3	3,648

Anisidine	29191-52-4	125
o-Anisidine and o-anisidine hydrochloride	90-04-0 <sup>2</sup>	125
Antimony & compounds, as Sb	7440-36-0 <sup>2</sup>	179
ANTU	86-88-4	105
Arsenic and inorganic compounds, as As	7440-38-2 <sup>2</sup>	12
<sup>3</sup> Arsine	7784-42-1	73
Asbestos, all forms	1332-21-4 <sup>2</sup>	12
Atrazine	1912-24-9	1,829
Azathioprine	446-86-6	12
Azinphos-methyl	86-50-0	73
Barium, soluble compounds, as Ba	7440-39-3 <sup>2</sup>	179
Benomyl	17804-35-2	3,648
Benz(a)anthracene	56-55-3	12
Benzene	71-43-2	150
Benzidine	92-87-5	1.0
Benzo(b)fluoranthene	205-99-2	12
Benzo(j,k)fluorene	206-44-0	12
Benzo(a)phenanthrene (Chrysene)	218-01-9	12
Benzo(a)pyrene	50-32-8	12
Benzotrichloride	98-07-7	125
Benzoyl peroxide	94-36-0	1,829
Benzyl chloride	100-44-7	1,829
Beryllium and beryllium compounds, as Be	7440-41-7 <sup>2</sup>	12
Biphenyl	92-52-4	547
N,N-Bis (2-chloroethyl)-2-naphthylamine (Chloronaphazine)	494-03-1	12
Bis(chloromethyl) ether (BCME) and technical grade	542-88-1	0.050
Borates, tetra, sodium salts, decahydrate	1303-96-4 <sup>2</sup>	1,829
Borates, tetra, sodium salts, pentahydrate	1303-96-4 <sup>2</sup>	368
Boron tribromide	10294-33-4	2,218
<sup>3</sup> Boron trifluoride	7637-07-2	662
Bromacil	314-40-9	3,648
<sup>3</sup> Bromine	7726-95-6	252
<sup>3</sup> Bromine pentafluoride	7789-30-2	252
Bromoform	75-25-2	6,000
1,3-Butadiene	106-99-0	6,000
1,4-Butanediol dimethanesulphonate (Myleran)	55-98-1	12
<sup>1</sup> 2-Butoxyethanol (EGBE)	111-76-2	6,000

Air Contaminant Name	CAS Number	Reporting Level (lbs/yr)
n-Butyl acrylate	141-32-2	6,000
n-Butyl alcohol	71-36-3	6,000
n-Butylamine	109-73-9	3,332
tert-Butyl chromate, as Cr	1189-85-1	0.050
n-Butyl glycidyl ether (BGE)	2426-08-6	6,000
n-Butyl lactate	138-22-7	6,000
o-sec-Butylphenol	89-72-5	6,000
p-tert-Butyltoluene	98-51-1	6,000
Cadmium and cadmium compounds, as Cd	7440-43-9 <sup>2</sup>	12
Calcium cyanamide	156-62-7	179
Calcium hydroxide	1305-62-0	1,829
Calcium oxide	1305-78-8	725
Camphor (synthetic)	76-22-2	4,373
Caprolactam vapor	105-60-2	6,000
Captafol	2425-06-1	37
Captan	133-06-2	1,829
Carbaryl	63-25-2	1,829
Carbofuran	1563-66-2	37
Carbon black	1333-86-4	1,272
Carbon dioxide	124-38-9	100,000 tons
Carbon disulfide	75-15-0	6,000
Carbon monoxide	630-08-0	10,000
Carbon tetrabromide	558-13-4	515
Carbon tetrachloride	56-23-5	12
Carbonyl fluoride	353-50-4	1,829
Carbonyl sulfide	463-58-1	6,000
Catechol (Pyrocatechol)	120-80-9	6,000
Cesium hydroxide	21351-79-1	725
Chloramben	133-90-4	6,000
Chlorambucil	305-03-3	12
Chlordane	57-74-9	179
Chlorinated camphene (Toxaphene)	8001-35-2	179
Chlorinated dioxins and furans (total equivalents)	<sup>2</sup>	0.00005
Chlorinated diphenyl oxide	55720-99-5	179
<sup>3</sup> Chlorine	7782-50-5	1,093
<sup>3</sup> Chlorine dioxide	10049-04-4	105
<sup>3</sup> Chlorine trifluoride	7790-91-2	88
Chloroacetic acid	79-11-8	6,000
2-Chloroacetophenone	532-27-4	6,000
Chlorobenzene (Monochlorobenzene)	108-90-7	6,000
Chlorobenzilate	510-15-6	6,000
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	13010-47-4	12
<sup>3</sup> Chlorofluorocarbon-11 (CFC-11, R-11, Trichlorofluoromethane)	75-69-4	6,000
<sup>3</sup> Chlorofluorocarbon-12 (CFC-12, R-12, Dichlorodifluoromethane)	75-71-8	6,000
<sup>3</sup> Chlorofluorocarbon-13 (CFC-13, R-13, Chlorotrifluoromethane)	75-72-9	6,000
<sup>3</sup> Chlorofluorocarbon-111 (CFC-111)	954-56-3	6,000
<sup>3</sup> Chlorofluorocarbon-112 (CFC-112)	76-12-0	6,000
<sup>3</sup> Chlorofluorocarbon-113 (CFC-113, R-113, Trichlorotrifluoroethane)	76-13-1	6,000
<sup>3</sup> Chlorofluorocarbon-114 (CFC-114, R-114, Dichlorotetrafluoroethane)	76-14-2	6,000
<sup>3</sup> Chlorofluorocarbon-115 (CFC-115, R-115, Monochloropentafluoroethane)	76-15-3	6,000
<sup>3</sup> Chlorofluorocarbon-211 (CFC-211, R-211)		6,000
<sup>3</sup> Chlorofluorocarbon-212 (CFC-212, R-212)		6,000
<sup>3</sup> Chlorofluorocarbon-213 (CFC-213, R-213)		6,000
<sup>3</sup> Chlorofluorocarbon-214 (CFC-214, R-214)		6,000

Air Contaminant Name	CAS Number <sup>1</sup>	Reporting Level (lbs/yr)
Chloropicrin (Trichloronitromethane)	76-06-2	252
beta $\beta$ -Chloroprene	126-99-8	6,000
o-Chlorostyrene	2039-87-4	6,000
o-Chlorotoluene	95-49-8	6,000
Chlorpyrifos	2921-88-2	73
Chromium (II) compounds, as Cr	7440-47-3 <sup>2</sup>	179
Chromium (III) compounds, as Cr	7440-47-3 <sup>2</sup>	179
Chromium (VI) compounds, as Cr, water soluble	7440-47-3 <sup>2</sup>	18
Chromium (VI) compounds, as Cr, water insoluble	7440-47-3 <sup>2</sup>	1.0
Chromium (metal)	7440-47-3	179
Chromyl chloride, as Cr	14977-61-8	0.050
Cobalt, as Co, metal, dust	7440-48-4	18
<sup>3</sup> Coke oven emissions		12 <sup>2</sup>
Copper, dust & mists, as Cu	7440-50-8	368
p-Cresidine	120-71-8	125
Cresol, all isomers	1319-77-3	6,000
m-Cresol	108-39-4	6,000
o-Cresol	95-48-7	6,000
p-Cresol	106-44-5	6,000
Crotonaldehyde	123-73-9 <sup>2</sup>	2,943
Crufomate	299-86-5	1,829
Cumene	98-82-8	6,000
Cyanamide	420-04-2	725
Cyanides, (inorganics), as CN	143-33-9 <sup>2</sup>	1,829
Cyanogen	460-19-5	6,000
Cyanogen chloride	506-77-4	137
Cyclohexanol	108-93-0	6,000
Cyclohexanone	108-94-1	6,000
Cyclohexylamine	108-91-8	6,000
Cyclopentadiene	542-92-7	6,000
Cyclophosphamide	50-18-0	12
Cyhexatin	13121-70-5	1,829
2,4-D, salts and esters	94-75-7	6,000
DDE	72-55-9	6,000
Dacarbazine	4342-03-4	12
Demeton	8065-48-3	37
Diacetone alcohol	123-42-2	6,000
2,4-Diaminoanisole sulfate	39156-41-7	125
2,4-Diaminotoluene (2,4-Toluenediamine)	95-80-7 <sup>2</sup>	125
Diazinon	333-41-5	37
Diazomethane	334-88-3	147
Dibenz(a,h)acridine	226-36-8	12
Dibenz(a,j)acridine	224-42-0	12
Dibenz(a,h)anthracene	53-70-3	12
7H-Dibenzo(c,g)carbazole	194-59-2	12
Dibenzofurans	132-64-9	6,000
Dibenzo(a,h)pyrene	189-64-0	12
Dibenzo(a,i)pyrene	189-55-9	12
<sup>3</sup> Diborane	19287-45-7	37
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	125
1,2-Dibromoethane (EDB)	106-93-4	125
2-N-Dibutylaminoethanol	102-81-8	5,109
Dibutyl phthalate	84-74-2	1,829
o-Dichlorobenzene	95-50-1	6,000
p-Dichlorobenzene	106-46-7	6,000
3,3'-Dichlorobenzidine	91-94-1	125
1,3-Dichloro-5,5-dimethyl hydantoin	118-52-5	73
1,1-Dichloroethane	75-34-3	6,000
1,2-Dichloroethane (EDC)	107-06-2	12
1,2-Dichloroethylene	540-59-0	6,000

Air Contaminant Name	CAS Number	Reporting Level (lbs/yr)
Dichloroethyl ether	111-44-4	6,000
1,1-Dichloro-1-nitroethane	594-72-9	3,648
Dichloropropene 1,3-Dichloropropene	542-75-6	1,829
2,2-Dichloropropionic acid	75-99-0	2,186
Dichlorvos	62-73-7	368
Dicrotophos	141-66-2	91
Dicyclopentadiene	77-73-6	6,000
Dieldrin	60-57-1	91
Diethanolamine	111-42-2	5,477
Diethylamine	109-89-7	6,000
2-Diethylaminoethanol	100-37-8	6,000
Diethylene triamine	111-40-0	1,461
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	125
Diethyl phthalate	84-66-2	1,829
Diethyl sulfate	64-67-5	12
Diethylstilbestrol (DES)	56-53-1	12
Diglycidyl ether (DGE)	2238-07-5	179
Diisobutyl ketone (DIBK)	108-83-8	6,000
Diisopropylamine	108-18-9	6,000
3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	125
Dimethyl acetamide	127-19-5	6,000
Dimethylamine	124-40-3	6,000
4-Dimethylaminoazobenzene	60-11-7	125
Dimethylaniline (N,N-Dimethylaniline)	121-69-7	6,000
3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7	125
Dimethylcarbamoyl chloride	79-44-7	125
N,N-Dimethylformamide	68-12-2	6,000
1,1-Dimethylhydrazine	57-14-7	125
Dimethylphthalate	131-11-3	1,829
Dimethyl sulfate	77-78-1	12
Dinitrobenzene, all isomers	528-29-0 <sup>2</sup>	368
Dinitro-o-cresol	534-52-1	73
2,4-Dinitrophenol	51-28-5	6,000
Dinitrotoluene	25321-14-6 <sup>2</sup>	547
n-Dioctyl phthalate	117-84-0	6,000
1,4-Dioxane	123-91-1	125
Dioxathion	78-34-2	73
Diquat	85-00-7 <sup>2</sup>	179
Disulfoton	298-04-4	37
Divinyl benzene	1321-74-0 <sup>2</sup>	6,000
Endosulfan	115-29-7	37
Endrin	72-20-8	37
Epichlorohydrin	106-89-8	150
EPN	2104-64-5	179
1,2-Epoxybutane (1,2-Butylene oxide)	106-88-7	6,000
Ethanolamine	141-43-5	2,922
Ethion	563-12-2	147
<sup>4</sup> 2-Ethoxyethanol (EGEE)	110-80-5	3,280
<sup>4</sup> 2-Ethoxyethyl acetate (EGEEA)	111-15-9	6,000
Ethyl acrylate	140-88-5	6,000
Ethylamine (Ethanamine)	75-04-7	6,000
Ethyl amyl ketone	541-85-5	6,000
Ethylbenzene	100-41-4	6,000
Ethyl butyl ketone	106-35-4	6,000
Ethyl chloride (Chloroethane)	75-00-3	6,000
Ethylene chlorohydrin	107-07-3	662
Ethylenediamine	107-15-3	6,000
Ethylene glycol vapor	107-21-1	6,000
Ethylene oxide	75-21-8	12
Ethylene thiourea	96-45-7	125

Air Contaminant Name	CAS Number <sup>1</sup>	Reporting Level (lbs/yr)
Ethylenimine (Aziridine)	151-56-4	368
Ethylidene norbornene	16219-75-3	5,550
N-Ethylmorpholine	100-74-3	6,000
Ethyl silicate	78-10-4	6,000
Fensulfothion	115-90-2	37
Fenthion	55-38-9	73
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	6,000
Fluorides, (inorganics), as F	2	915
<sup>3</sup> Fluorine	7782-41-4	725
Fonofos	944-22-9	37
Formaldehyde	50-00-0	125
Furfural	98-01-1	2,922
Furfuryl alcohol	98-00-0	6,000
<sup>3</sup> Germanium tetrahydride	7782-65-2	221
Glycidol	556-52-5	6,000
Glycol ethers <sup>45</sup>	2	6,000
<sup>3</sup> Halon-1211 (Bromochlorodifluoromethane)	353-59-3	6,000
<sup>3</sup> Halon-1301 (Bromotrifluoromethane)	75-63-8	6,000
<sup>3</sup> Halon-2402 (Dibromotetrafluoroethane)	124-73-2	6,000
Heptachlor	76-44-8	179
Hexachlorobenzene (HCB)	118-74-1	12
Hexachlorobutadiene	87-68-3	46
Hexachlorocyclopentadiene	77-47-4	37
Hexachloroethane	67-72-1	6,000
Hexachloronaphthalene	1335-87-1	73
Hexamethylene-1,6-diisocyanate (HDI)	822-06-0	6,000
Hexamethyl phosphoramidate	680-31-9	125
n-Hexane	110-54-3	6,000
sec-Hexyl acetate	108-84-9	6,000
Hexylene glycol	107-41-5	6,000
Hydrazine and hydrazine sulfate	302-01-2 <sup>2</sup>	125
Hydrazobenzene	122-66-7	125
<sup>3</sup> Hydrochlorofluorocarbon-21 (HCFC-21, Dichlorofluoromethane)	75-43-4	6,000
<sup>3</sup> Hydrochlorofluorocarbon-22 (HCFC-22, R-22, Chlorodifluoromethane)	75-45-6	6,000
<sup>3</sup> Hydrochlorofluorocarbon-31 (HCFC-31, R-31, Chlorofluoromethane)	593-70-4	6,000
<sup>3</sup> Hydrochlorofluorocarbon-121 (HCFC-121)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-122 (HCFC-122)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-123 (HCFC-123, R-123)	306-83-2 <sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-124 (HCFC-124, R-124)	63938-10-3 <sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-131 (HCFC-131)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-132b (HCFC-132b)	1649-08-7	6,000
<sup>3</sup> Hydrochlorofluorocarbon-133a (HCFC-133a)	75-88-7	6,000
<sup>3</sup> Hydrochlorofluorocarbon-141b (HCFC-141b, R-141b)		6,000
<sup>3</sup> Hydrochlorofluorocarbon-142b (HCFC-142b, R-142b)	75-68-3	6,000
<sup>3</sup> Hydrochlorofluorocarbon-221 (HCFC-221)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-222 (HCFC-222)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-223 (HCFC-223)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-224 (HCFC-224)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-225(c)(a) (HCFC-225ca)		6,000
<sup>3</sup> Hydrochlorofluorocarbon-225(c)(b) (HCFC-225cb)		6,000
<sup>3</sup> Hydrochlorofluorocarbon-226 (HCFC-226)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-231 (HCFC-231)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-232 (HCFC-232)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-233 (HCFC-233)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-234 (HCFC-234)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-235 (HCFC-235)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-241 (HCFC-241)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-242 (HCFC-242)	2	6,000

Air Contaminant Name	CAS Number	Reporting Level (lbs/yr)
<sup>3</sup> Hydrochlorofluorocarbon-243 (HCFC-243)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-244 (HCFC-244)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-251 (HCFC-251)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-252 (HCFC-252)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-253 (HCFC-253)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-261 (HCFC-261)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-262 (HCFC-262)	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-271 (HCFC-271)	2	6,000
Hydrogenated terphenyls	61788-32-7	1,829
<sup>3</sup> Hydrogen bromide	10035-10-6	2,218
<sup>3</sup> Hydrogen chloride	7647-01-0	1,556
<sup>3</sup> Hydrogen cyanide	74-90-8	2,218
<sup>3</sup> Hydrogen fluoride	7664-39-3	557
<sup>3</sup> Hydrogen peroxide	7722-84-1	547
<sup>3</sup> Hydrogen sulfide	7783-06-4	5,109
Hydroquinone	123-31-9	725
2-Hydroxypropyl acrylate	999-61-1	1,093
Indeno(1,2,3-cd)pyrene	193-39-5	12
Indium	7440-74-6	37
<sup>3</sup> Iodine	7553-56-2	221
Iron dextran complex	9004-66-4	12
Iron salts, soluble, as Fe	2	368
Isobutyl alcohol	78-83-1	6,000
Isooctyl alcohol	26952-21-6	6,000
Isophorone	78-59-1	5,550
Isophorone diisocyanate	4098-71-9	33
<sup>2</sup> Isopropoxyethanol	109-59-1	6,000
Isopropylamine	75-31-0	4,373
N-Isopropylaniline	768-52-5	3,648
Isopropyl glycidyl ether	4016-14-2	6,000
Ketene	463-51-4	326
Lead compounds	7439-92-1 <sup>2</sup>	6,000
Lindane and other hexachlorocyclohexane isomers	58-89-9 <sup>2</sup>	12
Maleic anhydride	108-31-6	368
Manganese, as Mn, dust and compounds	7439-96-5 <sup>2</sup>	1,114
Melphalan	148-82-3	12
<sup>3</sup> Mercury alkyl compounds, as Hg	7439-97-6 <sup>2</sup>	3.7
<sup>3</sup> Mercury, all forms except alkyl, vapor, as Hg	7439-97-6 <sup>2</sup>	18
<sup>3</sup> Mercury aryl & inorganic compounds, as Hg	7439-97-6 <sup>2</sup>	37
Mesityl oxide	141-79-7	6,000
Mestranol	72-33-3	12
Methacrylic acid	79-41-4	6,000
Methanol	67-56-1	6,000
Methomyl	16752-77-5	915
Methoxychlor	72-43-5	6,000
<sup>2</sup> 2-Methoxyethanol (EGME)	109-86-4	5,834
<sup>2</sup> 2-Methoxyethyl acetate (EGMEA)	110-49-6	6,000
4-Methoxyphenol	150-76-5	1,829
Methyl acrylate	96-33-3	6,000
Methylacrylonitrile	126-98-7	1,093
Methylamine	74-89-5	4,373
Methyl n-amyl ketone	110-43-0	6,000
N-Methyl aniline	100-61-8	725
Methyl bromide	74-83-9	6,000
Methyl n-butyl ketone (MBK)	591-78-6	6,000
Methyl chloride	74-87-3	6,000
<sup>3</sup> Methyl chloroform (1,1,1-Trichloroethane, TCA)	71-55-6	6,000
Methyl 2-cyanoacrylate	137-05-3	2,922
Methylcyclohexanol	25639-42-3	6,000
o-Methylcyclohexanone	583-60-8	6,000