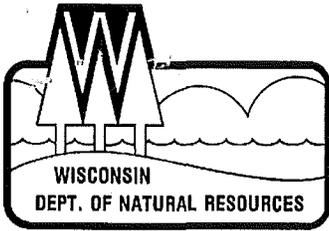


CR 94-104



George E. Meyer  
Secretary

**State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES**

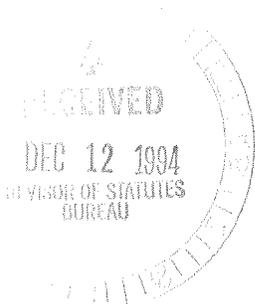
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TDD 608-267-6897

STATE OF WISCONSIN )  
 )  
DEPARTMENT OF NATURAL RESOURCES )      SS

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, George E. Meyer, Secretary of the Department of Natural Resources and custodian of the official records of said Department, do hereby certify that the annexed copy of Natural Resources Board Order No. AM-2-94 was duly approved and adopted by this Department on October 29, 1994. I further certify that said copy has been compared by me with the original on file in this Department and that the same is a true copy thereof, and of the whole of such original.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department at the Natural Resources Building in the City of Madison, this 4th day of December, 1994.



George E. Meyer  
George E. Meyer, Secretary

(SEAL)

3-1-95



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

IN THE MATTER of repealing NR 410.03(1)(b)1. to 3., 425.04(2), 484.06(1) to (3) and 484.08, renumbering and amending NR 484.06(4), amending NR 400.02(43e) and (80), 406.04(1)(n)2.c., 407.05(4)(c)1., 410 (title), 410.01(2), 410.02(intro.), 410.03(intro.) and (1)(b)(intro.), 410.04(3), 415.06(1)(a), (b) and (c)(intro.) and 1., 418.035, 420.02(31), 420.03(1)(a), 425 (title), 425.01(2), 425.03(12)(a)1. and (13)(c)3., 425.035(3)(a)3., 425.04 (title) and (1)(b), 425.05(1) and (d)1., (2)(b)2. and (3)(c)1., 438.02(2), 438.03(1)(b) and (5)(a), 439.08(1)(a) to (g) and (2)(a) to (c), 439.08(1)(c), (d) and (f) and (2)(a), (b) and (c) and 484.01(2), repealing and recreating NR 484.03, 484.04 and 484.05 and creating NR 410.05 and 484.11 pertaining to asbestos inspection fees, clarification of emission fee exemption and reporting requirements and reorganization and updating of incorporation by reference.

AM-2-94

Statutory authority: ss. 144.31(1)(a), 144.38(1), 144.399(3) and 227.11(2)(a), Stats.

Statutes interpreted: s. 144.31(1)(f), Stats. The State Implementation Plan developed under that provision is revised.

Section 144.399(3), Stats., states that the Department may promulgate rules to collect fees of up to \$200 per project to cover the costs of inspecting nonresidential asbestos abatement demolition and renovation projects. The revisions to NR 410 proposed in this rule establish a new fee for asbestos abatement project inspections.

The change to s. NR 410.04(3) clarifies the determination of when sources are exempt from annual emission fees if the total emissions are less than 5 tons annually or if they are an indirect source.

Air contaminant sources are to report annually emissions of methylene chloride and methyl chloroform by February 1st according to s. NR 425.04(2) and March 1st according to s. NR 438.03(2), and the required reporting levels are different in the two sections. The proposed rule revision repeals s. NR 425.04(2) in order to resolve this conflict.

This proposed rule revision reorganizes and updates ch. NR 484, Incorporation By Reference. It sets out referenced regulations, standards, and documents in tabular form, avoiding unnecessary duplication. It also updates standards which have been revised, incorporates by reference secondary standards contained in certain federal Appendices previously incorporated by reference and updates the

referenced standards in chs. NR 400, 407, 415, 418, 420, 425, 438 and 439. Approval to incorporate by reference the new and updated standards is being sought from the Attorney General and the Revisor of Statutes.

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SECTION 1. NR 400.02(43e) and (80) are amended to read:

NR 400.02(43e) "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 ~~D240-87~~D240-92, D1826-88 or ~~D2015-91~~D2015-93, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10. Where the test method gives a higher and a lower heating value, heat input is calculated in ~~BTU~~Btu per hour using the higher heating value of the fuel.

(80) "Residual fuel oil" means an industrial fuel oil of grade No. 4, 5 or 6, as determined by the specifications in ASTM ~~D396-89a~~D396-92, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

SECTION 2. NR 406.04(1)(n)2.c. is amended to read:

NR 406.04(1)(n)2.c. The fee required under s. ~~NR 410.03(1)(b)2 or 3,~~ NR 410.05(2) and (3), is submitted with the notice.

SECTION 3. NR 407.05(4)(c)1. is amended to read:

NR 407.05(4)(c)1. The maximum theoretical emissions of all air contaminants from all emissions units, operations and activities except for those exempted under subd. 9 or 10. Fugitive emissions from emissions units, operations and activities shall be included in the permit application in the same manner as stack emissions, regardless of whether the source category in question is included in the list of sources contained in the definition of major source. Maximum theoretical fugitive emissions shall be calculated

using average operating conditions and average weather conditions. Only sources which manufacture or process pesticides, rodenticides, insecticides, herbicides or fungicides shall include emissions of air contaminants identified as pesticides, rodenticides, insecticides, herbicides and fungicides in Table 2 in their permit applications. When preparing its application, the owner or operator of a facility may rely on information in an approved material safety data sheet. Trace contaminants need not be reported if they constitute less than 1% of the material, or 0.1% of the material if the air contaminant is footnoted as a suspected or confirmed human carcinogen by the American conference of governmental industrial hygienists in the ~~1990-1991~~1994-1995 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, incorporated by reference in ~~ch. NR 484s.~~ NR 484.11.

SECTION 4. Chapter NR 410 (title) is amended to read:

Chapter NR 410 (title)

AIR PERMIT, EMISSION AND INSPECTION FEES

SECTION 5. NR 410.01(2) is amended to read:

NR 410.01(2) PURPOSE. The purpose of this chapter is to establish, pursuant to s. 144.399, Stats., the requirements and the procedures for the payment of application fees and emission fees by persons who are required to obtain construction or operation permits for air contaminant sources ~~and~~, application fees by persons who request a determination of exemption from the requirement to obtain an air pollution control permit and asbestos inspection fees by persons responsible for nonresidential asbestos demolition and

renovation projects.

SECTION 6. NR 410.02(intro.) is amended to read:

NR 410.02 . 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 7. NR 410.03(intro.) is amended to read:

NR 410.03 APPLICATION FEE. (intro.) Any person required under s. 144.391, Stats., to obtain a construction permit for an air contaminant source shall pay an application fee, consisting of the sum of the basic fee under sub. (1) and any additional fees under sub. (2). Any person required under s. NR 406.04(1)(i) ~~or (n)~~ to obtain a determination of exemption from the department shall pay the basic fee under sub. (1)(b).

SECTION 8. NR 410.03(1)(b)(intro.) is amended to read:

NR 410.03(1)(b)(intro.) Any person requiring a determination of exemption under s. NR 406.04(1)(i) ~~or (n)~~ shall pay ~~the following amounts:~~ \$400 for the determination.

SECTION 9. NR 410.03(1)(b)1. to 3. are repealed.

SECTION 10. NR 410.04(3) is amended to read:

NR 410.04(3) FACILITIES EXEMPT FROM ANNUAL EMISSIONS FEES. The following facilities are exempt from the requirement to pay annual emissions

fees under s. 144.399(2), Stats., and this section:

(a) Any facility whose total annual actual emissions of all air contaminants listed in Table 1 of s. NR 438.03 ~~is, and annotated with footnote 3, are less than 5 tons is exempt from the requirement to pay an annual emissions fee.~~

(b) Indirect sources of air pollution ~~are exempt from the requirement to pay an annual emissions fee.~~

SECTION 11. NR 410.05 is created to read:

NR 410.05 ASBESTOS ABATEMENT PROJECT PERMIT EXEMPTION REVIEW AND INSPECTION FEES. (1) FEES REQUIRED. Any person who submits an asbestos abatement notification under ch. NR 447 shall pay the fees in subs. (2) and (3). The fees shall be submitted with the completed notification required under ch. NR 447 and are non-refundable.

(2) PERMIT EXEMPTION REVIEW FEE. Any person requiring a determination of exemption under s. NR 406.04(1)(n) shall pay one of the following amounts:

(a) \$50 for a determination of exemption if the asbestos renovation or demolition operation involves at least 260 linear feet or at least 160 square feet of friable asbestos containing material and a combined square and linear footage of less than 1000. The combination of square and linear footage shall be determined by adding the square footage of asbestos containing material on all areas other than pipes to the linear footage of asbestos containing material on pipes.

(b) \$125 for a determination of exemption if the asbestos renovation or demolition operation involves friable asbestos material with a combined square and linear footage of equal to or greater than 1000. The combination of

square and linear footage shall be determined by the method given in par. (a).

(3) INSPECTION FEE. The amount of the asbestos abatement project inspection fee shall be:

(a) \$50 if, in a facility being demolished, the amount of friable asbestos containing material is less than 260 linear feet on pipes and less than 160 square feet on other facility components.

(b) \$100 if the asbestos renovation or demolition operation involves at least 260 linear feet or at least 160 square feet of friable asbestos material and a combined square and linear footage of less than 1000. The combination of square and linear footage shall be determined by the method given in sub. (2)(a).

(c) \$200 if the asbestos renovation or demolition operation involves friable asbestos material with a combined square and linear footage of equal to or greater than 1000. The combination of square and linear footage shall be determined by the method given in sub. (2)(a).

SECTION 12. NR 415.06(1)(a), (b) and (c)(intro.) and 1. are amended to read:

NR 415.06(1)(a) All installations shall meet the emission limitation ~~determined by use of figure 2 of the ASME Standard number APS 1, incorporated by reference in ch. NR 484, with the maximum emission from any stack, irrespective of stack height,~~ of 0.60 pounds of particulate matter from any stack per million BTU Btu heat input.

(b) Installations located in subregion 1 of the Lake Michigan Intrastate AQCR, ~~in addition to meeting the emission limitations of par. (a), shall, by July 31, 1975, meet the emission limitation determined by use of figure 2 of the ASME Standard number APS 1 with the maximum emission from any~~

~~stack, irrespective of stack height, of 0.30 pounds of particulate matter from any stack per million BTU Btu heat input.~~

(c)(intro.) Installations located in the Southeastern Wisconsin Intrastate AQCR, ~~in addition to meeting the emission limitations of par. (a),~~ shall meet the following requirements:

1. Installations of 250 million BTU Btu per hour or less ~~(heat input of an installation shall follow ASME Standard number APS 1):~~ maximum emission defined by the equation,

$$E = 0.3 - 0.0006I$$

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

SECTION 13. NR 418.035 is amended to read:

NR 418.035 SOUTHEASTERN WISCONSIN INTRASTATE AQCR. In the Southeastern Wisconsin Intrastate AQCR, installations of 250 million BTU Btu per hour or less may not burn coal with a sulfur content exceeding 1.11 pounds per million BTU Btu in the coal. ~~Heat input of an installation shall follow ASME standard number APS 1, incorporated by reference in ch. NR 484.~~

SECTION 14. NR 420.02(31) is amended to read:

NR 420.02(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~~ 89D323-90, incorporated

by reference in ~~ch. NR 484s.~~ NR 484.10.

SECTION 15. 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 ~~D396-89~~D396-92, gas turbine fuel oils numbers 2-GT through 4-GT as specified in ASTM D2880-89, or diesel fuel oils numbers 2-D and 4-D as specified in ASTM ~~D975-89~~D975-92a. These ASTM standards are incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

SECTION 16. Chapter NR 425 (title) is amended to read:

Chapter NR 425 (title)

COMPLIANCE SCHEDULES, DELAYS, EXCEPTIONS, ~~REGISTRATION AND DEFERRALS~~ INTERNAL OFFSETS FOR ORGANIC COMPOUND EMISSION SOURCES IN  
CHS. NR 419 TO 424

SECTION 17. NR 425.01(2) is amended to read:

NR 425.01(2) PURPOSE. This chapter is adopted under ss. 144.31 and 144.38, Stats., to establish time schedules for air contaminant sources governed by chs. NR 419 to 424 to meet the emission limits set for each specific organic compound emission source, to specify exceptions to the requirements of chs. NR 419 to 424, to establish an internal offset system, and to establish criteria for granting compliance schedule delays ~~and to create a registration requirement for the use of specified organic compounds.~~

SECTION 18. NR 425.03(12)(a)1. and (13)(c)3. are amended to read:

NR 425.03(12)(a)1. Prior to January 1, 1994 was exempt from the

requirements of ss. NR 422.04 to ~~422.15~~ 422.155 under s. NR 422.03(1) or (2),  
or

(13)(c)3. Notwithstanding par. (b)2 b and c, unless or until an alternative or equivalent method as allowed in chs. NR 419 to 424 or s. NR 439.06 is approved by the administrator of the U.S. environmental protection agency or designee as a source-specific revision to the department's state implementation plan for ozone, the applicable control methods specified under chs. NR 419 to 424 and reference methods specified under ss. NR 439.06 to 439.095 shall be become federally enforceable on January 1, 1995.

SECTION 19. NR 425.035(3)(a)3. is amended to read:

NR 425.035(3)(a)3. Achieve final compliance with applicable provisions of s. NR 420.045 before startup and initial operation of any new or modified vapor recovery system.

SECTION 20. NR 425.04 (title) and (1)(b) are amended to read:

NR 425.04 (title) EXCEPTIONS AND NONOZONE SEASON ALLOWANCES.

(1)(b) Except for the provisions of s. NR 419.03(1) and (2) ~~and sub-~~  
~~(2)~~, the requirements of chs. NR 419 to 425 do not apply to the use or application of insecticides, pesticides or herbicides or to the use or emission of trichlorotrifluoroethane (CFC-113), ethane, methane, methylene chloride or methyl chloroform.

SECTION 21. NR 425.04(2) is repealed.

SECTION 22. NR 425.05(1)(d)1., (2)(b)2. and (3)(c)1. are amended to read:

NR 425.05(1)(d)1. It has been submitted to the administrator of the U.S. environmental protection agency pursuant to applicable law, including but not limited to 42 USC 7410, ~~as amended~~, and 40 CFR parts 51 and 52, ~~as amended~~, and all substantive requirements of the federal law have been met, and

(2)(b)2. Establish a combined daily allowable emission rate from all coating and printing lines involved in the internal offset equal to:

$$E = Y \left[ \frac{A_1 B_1 C_1}{D_1} + \frac{A_2 B_2 C_2}{D_2} + \dots + \frac{A_n B_n C_n}{D_n} \right]$$

where E = is the total daily allowable emissions from all of the coating and printing lines involved in the internal offset in kilograms (pounds), Y = 1 for facilities located in areas designated attainment or unclassified for ozone or in areas designated nonattainment for ozone with a federally approved demonstration of attainment, and Y = 0.8 for facilities located in areas designated nonattainment for ozone and lacking a federally approved demonstration of attainment,  $A_{1,2,\dots,n}$  = is the lowest of the allowable emission rate for each coating or printing line pursuant to ss. NR 422.05 to 422.15, or other limitation imposed by permit, order or approval, or the actual emission rate for each coating or printing line, as of the date of the internal offset application, in kilograms per liter (pounds per gallon) of coating or ink, excluding water, delivered to the applicator,  $B_{1,2,\dots,n}$  = is the amount of coating material or ink in liters (gallons), delivered to the applicator during the actual production day,  $C_{1,2,\dots,n}$  = is the volume fraction of solids in the coating or ink, delivered to the applicator during the actual production day, and  $D_{1,2,\dots,n}$  = is the theoretical volume fraction of solids in the coating

or ink necessary to meet the lowest of the allowable emission rate for each coating or printing line pursuant to ss. NR 422.05 to 422.15, or other limitation imposed by permit, order or approval, calculated from:

$$D_{1,2,\dots,n} = 1 - \frac{A_{1,2,\dots,n}}{P_{1,2,\dots,n}}$$

where  $P_{1,2,\dots,n}$  = 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; and

(3)(c)1. It has been submitted to the administrator of the U.S. environmental protection agency pursuant to applicable law, including but not limited to 42 USC 7410, ~~as amended,~~ and 40 CFR parts 51 and 52, ~~as amended,~~ and all substantive requirements of the federal law have been met, and

SECTION 23. 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 in the AIRS Facility Subsystem Source ~~Class~~ Classification Codes and Emission Factors ~~Factor Listing for Criteria Air Pollutants~~, EPA-450/4-90-003, March, 1990, incorporated by reference in ~~ch. NR 484 s. NR 484.05.~~

SECTION 24. NR 438.03(1)(b) and (5)(a) are amended to read:

NR 438.03(1)(b). When preparing its emission inventory report, the owner or operator of a facility may rely on information in an approved material safety data sheet. Trace contaminants need not be reported if they constitute less than 1% of the material, or 0.1% of the material if the air contaminant is footnoted as a suspected or confirmed human carcinogen by the American conference of governmental industrial hygienists in the ~~1990-1991~~1994-1995 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, incorporated by reference in s. NR ~~484.05(8)~~ 484.11.

(5)(a) Based on the throughput or emissions information submitted pursuant to ss. NR 438.03 and 438.04, the department shall determine each facility's annual actual emissions and typical ozone season day emissions based on emission factors contained in Compilation of Air Pollution Pollutant Emission Factors, AP-42, Volume 1: Stationary Point and Area Sources, USEPA-OAQPS, September 1991, or Toxic Air Pollutant Emission Factors-A Compilations for Selected Air Toxic Compounds and Sources, Second Edition, USEPA-OAQPS, EPA 450/2-88-066a EPA-450/2-90-011, October, 1990, incorporated by reference in ch. NR 484 s. NR 484.05. Other emission factors or methods, including, but not limited to, mass balance or other use reporting, consumption and analytical methodologies, or continuous emissions monitoring data, if applicable, may be used by the department.

SECTION 25. NR 439.08(1)(a) to (g) and (2)(a) to (c) are amended to read:

NR 439.08(1)(a) Coal sampling. Coal sampling shall be performed according to ASTM D2234-89, Standard Test Methods for Collection of a Gross

Sample of Coal, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(b) Preparing coal for analysis. Preparation of a coal sample for analysis shall be performed according to ASTM D2013-86, Standard Method of Preparing Coal Samples for Analysis, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(c) Sulfur content in coal. The sulfur content of a coal sample shall be determined according to ASTM D3177-89, Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke, or ASTM ~~D4239-85~~D4239-93, Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods, both incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(d) Heat content in coal. The heat content of a coal sample shall be determined according to ASTM ~~D2015-85~~ D1989-92, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters, or ASTM D2015-93, Standard Test Method for Gross Calorific Value of ~~Solid Fuel~~ Coal and Coke by the Adiabatic Bomb Calorimeter, both incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(e) Ash content in coal. The ash content of a coal sample shall be determined according to ASTM D3174-89, Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(f) Moisture content in coal. The moisture content of a coal sample shall be determined according to ASTM D3173-87(1992), Standard Test Method for Moisture in the Analysis Sample of Coal and Coke, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(g) Ultimate analysis of coal. The ultimate analysis of a coal sample

shall be determined according to ASTM D3176-89, Standard Practice for Ultimate Analysis of Coal and Coke, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(2)(a) Liquid fossil fuel sampling. Liquid fossil fuel sampling shall be performed according to ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, or ASTM D4177-82(1990), Standard Method Practice for Automatic Sampling of Petroleum and Petroleum Products, both incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(b) Sulfur content in liquid fossil fuel. The sulfur content of a liquid fossil fuel sample shall be determined according to ASTM ~~D129-64(1978)~~D129-91, Standard Test Method for Sulfur in Petroleum Products (General Bomb Method), ASTM ~~D1552-83~~D1552-90, Standard Test Method for Sulfur in Petroleum Products (High-Temperature Method), or ASTM ~~D4294-83~~D4294-90, Standard Test Method for Sulfur in Petroleum Products by Nondispersive Energy-Dispersive X-ray Fluorescence Spectrometer Spectroscopy, all incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

(c) Heat content in liquid fossil fuel. The heat content of a liquid fossil fuel sample shall be determined according to ASTM ~~D240-87~~D240-92, Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by a Bomb Calorimeter, incorporated by reference in ~~ch. NR 484s.~~ NR 484.10.

SECTION 26. NR 484.01(2) is amended to read:

NR 484.01(2) PURPOSE. This chapter is adopted under ss. 144.31(1) and 227.21(2), Stats., to incorporate by reference testing, monitoring and other technical standards, established by the federal government and technical societies and organizations, to which reference is made in chs. NR 400 to 439

and 444 to 499.

Note: Technical Standards to which reference is made in ch. NR 440 are incorporated by reference in s. NR 440.17.

SECTION 27. NR 484.03, 484.04 and 484.05 are repealed and recreated to read:

NR 484.03 CODE OF FEDERAL REGULATIONS. The federal regulations in effect on July 1, 1994 listed in the first column of Table 1 are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 444 to 499 in the third column of Table 1.

Note: Copies of these materials are available for inspection in the offices of the department of natural resources and revisor of statutes, Madison, Wisconsin and in some public libraries or may be purchased for personal use from:

Superintendent of Documents  
U.S. Government Printing Office  
Washington DC 20402

TABLE 1  
CFR REFERENCES

CFR Reference	Title	Incorporated by Reference For
(1) 29 CFR 1910.145(d)(4)		NR 447.12(4)(a)2 NR 447.14(2)(a)2 NR 447.17(2)(a)2
(2) 29 CFR 1910.1001(j)(2)		NR 447.13(1)(a)4
(3) 29 CFR 1926.58(k)(2)(iii)		NR 447.13(1)(a)4
(4) 40 CFR part 53	Ambient Air Monitoring Reference and Equivalent Methods	NR 404.02(4m)
(5) 40 CFR 61.07	Application for Approval of Construction or Modification	NR 447.18(1) Note

(6) 40 CFR 61.10

Source Reporting and  
Request for Waiver of  
Compliance

NR 447.16(2)

NR 484.04 CODE OF FEDERAL REGULATIONS APPENDICES. The appendices to federal regulations in effect on July 1, 1994 listed in the first column of Table 2 are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 444 to 499 or code of federal regulations appendix method listed in the third column of Table 2. Since some of these materials are incorporated by reference for another appendix of the code of federal regulations and the other appendix is also incorporated by reference in this section, the materials listed in this section which are incorporated by reference for the other appendix are hereby also incorporated by reference and made a part of this chapter.

Note: Copies of these materials are available for inspection in the offices of the department of natural resources and revisor of statutes, Madison, Wisconsin and in some public libraries or may be purchased for personal use from:

Superintendent of Documents  
U.S. Government Printing Office  
Washington DC 20402.

TABLE 2  
CFR APPENDIX REFERENCES

CFR Appendix Referenced	Title	Incorporated by Reference For
(1) 29 CFR 1926.58 Appendix G	Work Practices and Engineering Controls for Small-Scale, Short-Duration Asbestos Renovation and Maintenance Activities -- Non-Mandatory	NR 447.02(18) Note
(2) 40 CFR part 50 Appendices A to K		NR 404.02(8) NR 404.06(2)

(3) 40 CFR part 50 Appendix B	Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method)	NR 404.02(11)
(4) 40 CFR part 50 Appendix H	Interpretation of the National Ambient Air Quality Standards for Ozone	NR 404.04(5)
(5) 40 CFR part 50 Appendix J	Reference Method for the Determination of Particulate Matter as PM <sub>10</sub> in the Atmosphere	NR 404.02(4m)
(6) 40 CFR part 50 Appendix K	Interpretation of the National Ambient Air Quality Standards for Particulate Matter	NR 404.04(8)(b)3
(7) 40 CFR part 51 Appendix M	Recommended Test Methods for State Implementation Plans	NR 439
(8) 40 CFR part 51 Appendix S, Section IV	Sources That Would Locate in a Designated Nonattainment Area	NR 405.11(1)(e)
(10) 40 CFR part 58 Appendix B	Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring	NR 405.11(3)
(11) 40 CFR part 60 Appendix A	Test Methods	NR 400.02(77) NR 439
(12) 40 CFR part 60 Appendix A, Method 3	Gas Analysis for the Determination of Dry Molecular Weight	NR 449.09(6)(a)3
(13) 40 CFR part 60 Appendix A, Method 5	Determination of Particulate Emissions from Stationary Sources	40 CFR part 61 Appendix B, Method 101
(14) 40 CFR part 60 Appendix A, Method 21	Determination of Volatile Organic Compounds Leaks	NR 420.02(39m) NR 421.02(12m) NR 421.05(2)(e) NR 421.06(2)(e)
(15) 40 CFR part 60 Appendix A, Method 22	Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares	NR 415.075(3)(c)
(16) 40 CFR part 60 Appendix B	Performance Specifications	NR 439

(17) 40 CFR part 61 Appendix A	National Emission Standards for Hazardous Air Pollutants: Compliance Status Information	NR 447.16(2)
(18) 40 CFR part 61 Appendix B	Test Methods	NR 445.02(9m) NR 446 to NR 483
(20) 40 CFR part 75 Appendices A to I		NR 439
(21) 40 CFR part 763 Subpart F Appendix A, Section 1	Polarized Light Microscopy	NR 447.02(1)(a) NR 447.02(16) NR 447.02(27) NR 447.02(36) NR 447.09(1)(a)

NR 484.05 NATIONAL TECHNICAL INFORMATION SERVICE. The National Technical Information Service (NTIS) documents listed in the first column of Table 3 are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 444 to 499 in the third column of Table 3.

Note: Copies of these materials are available for inspection in the offices of the department of natural resources, secretary of state and revisor of statutes, Madison, Wisconsin or may be purchased for personal use from:

National Technical Information Service  
5285 Port Royal Road  
Springfield VA 22161

TABLE 3  
NTIS DOCUMENT REFERENCES

Document Reference	Document Title	Incorporated by Reference For
(1) NTIS Order No. PB 87-100012	Standard Industrial Classification Manual, 1987	NR 400.02(47m) NR 400.02(51m) NR 400.02(91) NR 405.02(8) NR 407.02(17)(intro.) NR 407.05(4)(b) NR 408.02(5) NR 410.02(4) NR 421.02(2e) NR 421.02(11e) NR 422.15(1)(intro.) NR 438.02(1)
(2) NTIS Order No. PB-266 227	Recommended Industrial Ventilation Guidelines, U.S. Department of Health, Education, and Welfare, National Institute of Occupational Safety and Health, 1976	NR 421.04(3)(c)2
(3) Federal Information Processing Standards Publication 8-5, October 31, 1984	Metropolitan Statistical Areas (including CMSAs, PMSAs, and NECMAs)	NR 406.02(3)
(4) San Diego Air Pollution Control District Test Procedure TP-91-1	Pressure Decay/Leak Test Procedure, Phase I and Phase II Vapor Recovery Installations	NR 439.06(3)(i)
(5) San Diego Air Pollution Control District Test Procedure TP-91-2	Pressure Drop vs. Flow/Liquid Blockage Test Procedure, Phase II Balance System Installations	NR 439.06(3)(i)
(6) EPA Publication No. 450/2-78-027R (OAQPS 1.2-080)	Guideline on Air Quality Models (Revised) (1986)	NR 405.10(1)
(7) EPA, OAQPS	Workbook for the Comparison of Air Quality Models, May 1978	NR 405.10(5)

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|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| (8) EPA, OAQPS,<br>AP-42                  | Compilation of Air Pollutant<br>Emission Factors, Volume 1:<br>Stationary Point and Area<br>Sources, as amended by<br>Supplement B in September,<br>1989, Supplement C in<br>September, 1990, and<br>Supplement D in September,<br>1991 | NR 438.03(5)(a) |
| (9) EPA-<br>450/2-90-011, October<br>1990 | Toxic Air Pollutant Emission<br>Factors-A Compilation for<br>Selected Air Toxic Compounds<br>and Sources, Second Edition                                                                                                                | NR 438.03(5)(a) |
| (10) EPA-<br>450/4-90-003, March<br>1990  | AIRS Facility Subsystem<br>Source Classification Codes<br>and Emission Factor Listing<br>for Criteria Air Pollutants                                                                                                                    | NR 438.02(2)    |

SECTION 28. NR 484.06(1) to (3) are repealed.

SECTION 29. NR 484.06(4) is renumbered 484.10 and amended to read:

NR 484.10 (title) AMERICAN SOCIETY FOR TESTING AND MATERIALS. The ~~materials~~American society for testing and materials (ASTM) standards listed in ~~this subsection~~the first column of Table 5 are incorporated by reference for the corresponding sections ~~noted of~~chs. NR 400 to 439 and 444 to 499 in the third column of Table 5. Some of the ~~materials~~standards are also incorporated for Appendix A or B of 40 CFR part 60 , Appendix B of 40 CFR part 61 or Appendix A, D, E, F or G of 40 CFR part 75 as in effect on July 1, ~~1993~~ 1994. Since these Appendices are incorporated by reference in ~~this chapter by sub-~~(2)s. NR 484.04, materials~~standards~~ listed in this ~~subsection~~section which are incorporated by reference for the Appendices are hereby also incorporated by reference and made a part of this chapter and ~~ch~~chs. NR 400 to 439 and 444 to 499.

Note: ~~The~~These materials are available for inspection in the offices of the department of natural resources, secretary of state and revisor of statutes, Madison, Wisconsin or may be purchased for personal use at one of the following addresses:

American Society for Testing and Materials (ASTM),  
 1916 Race Street,  
 Philadelphia, - PA 19103,

or ~~the~~from:

University Microfilms International,  
 300 North Zeeb Road,  
 Ann Arbor, - MI 48106,

~~or the address listed in the applicable paragraph.~~

TABLE 5  
 ASTM STANDARD REFERENCES

Standard No.	Standard Title	Incorporated by Reference For
<u>(1) ASTM C136-84a</u>	<u>Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates</u>	<u>NR 415.02(9)</u>
<u>(2) ASTM D97-87</u>	<u>Standard Test Methods for Pour Point of Petroleum Oils</u>	<u>NR 420.02(41)</u>
<u>(3) ASTM D129-64</u> <u>(1978)D129-91</u>	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method)	40 CFR part 60 Appendix A, Method 19  <u>40 CFR part 75 Appendices A and D</u>
<u>(4) ASTM D240-87</u> <u>D240-92</u>	Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter	NR 439.08(2)(b)  40 CFR part 60 Appendix A, Method 19  <u>40 CFR part 75 Appendices A, D, E and F</u>
<u>(5) ASTM D287-92</u>	<u>Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)</u>	NR 400.02(43e) NR 439.08(2)(c)  <u>40 CFR part 75 Appendix D</u>

<u>(6) ASTM</u> <u>D323-90</u>	<u>Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)</u>	<u>NR 420.02(31)</u>
<u>(7) ASTM</u> <u>D388-92</u>	<u>Standard Classification of Coals by Rank</u>	<u>40 CFR part 75</u> <u>Appendix F</u>
<u>(8) ASTM</u> <u>D396-92</u>	<u>Standard Specification for Fuel Oils</u>	<u>NR 400.02(80)</u> <u>NR 420.03(1)(a)</u>
<u>(9) ASTM</u> <u>D523-89</u>	<u>Test Method for Specular Gloss</u>	<u>ANSI/AHA A135.5-1988</u>
<u>(10) ASTM</u> <u>D737-75 (1980)</u>	<u>Standard Test Method for Air Permeability of Textile Fabrics</u>	<u>NR 447.15(1)(a)1</u>
<u>(11) ASTM</u> <u>D941-88</u>	<u>Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Lipkin Bicapillary Pycnometer</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(12) ASTM</u> <u>D968-81 (1991)</u>	<u>Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive</u>	<u>ANSI/AHA A135.5-1988</u>
<u>(13) ASTM</u> <u>D975-92a</u>	<u>Standard Specification for Diesel Fuel Oils</u>	<u>NR 420.03(1)(a)</u>
<u>(14) ASTM</u> <u>D1037-91</u>	<u>Test Methods of Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials</u>	<u>ANSI/AHA A135.5-1988</u>
<u>(15) ASTM</u> <u>D1072-90</u>	<u>Standard Test Method for Total Sulfur in Fuel Gases</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(16) ASTM</u> <u><del>D1193-77</del></u> <u>(1983)D1193-91</u>	<u>Standard Specification for Reagent Water</u>	<u>40 CFR part 60</u> <u>Appendix A:</u>  <u>Method 6, par. 3.1.1</u> <u>Method 7, par. 3.2.2</u> <u>Method 7A, par. 3.2</u> <u>Method 7C, par. 3.1.1</u> <u>Method 7D, par. 3.1.1</u> <u>Method 8, par. 3.1.3</u> <u>Method 11, par. 6.1.3</u> <u>Method 12, par. 4.1.3</u> <u>Method 13A, par. 6.1.2</u>  <u>40 CFR part 61</u> <u>Appendix B, Method 101,</u> <u>par. 6.1.1</u>

<u>(17) ASTM</u> <u>D1217-91</u>	<u>Standard Test Method for</u> <u>Density and Relative Density</u> <u>(Specific Gravity) of Liquids</u> <u>by Bingham Pycnometer</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(18) ASTM</u> <u>D1250-80(1990)</u>	<u>Standard Guide for Petroleum</u> <u>Measurement Tables</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(20) ASTM</u> <u>D1298-85(1990)</u>	<u>Standard Practice for Density,</u> <u>Relative Density (Specific</u> <u>Gravity), or API Gravity of</u> <u>Crude Petroleum and Liquid</u> <u>Petroleum Products by</u> <u>Hydrometer Method</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(21) ASTM</u> <u>D1308-87</u>	<u>Standard Test Method for</u> <u>Effect of Household Chemicals</u> <u>on Clear and Pigmented Organic</u> <u>Finishes</u>	<u>ANSI/AHA A135.5-1988</u>
<u>(22) ASTM</u> <u>D1475-60</u> <u>(1980)D1475-90</u>	<u>Standard Test Method for</u> <u>Density of Paint, Varnish,</u> <u>Lacquer, and Related Products</u>	<u>40 CFR part 60</u> <u>Appendix A:</u>  <u>Method 24, par. 2.1</u> <u>Method 24A, par. 2.2</u> <u>Method 24A, par. 2.3</u>
<u>(23) ASTM</u> <u>D1480-91</u>	<u>Standard Test Method for</u> <u>Density and Relative Density</u> <u>(Specific Gravity) of Viscous</u> <u>Materials by Bingham</u> <u>Pycnometer</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(24) ASTM</u> <u>D1481-91</u>	<u>Standard Test Method for</u> <u>Density and Relative Density</u> <u>(Specific Gravity) of Viscous</u> <u>Materials by Lipkin</u> <u>Bicapillary Pycnometer</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(25) ASTM</u> <u>D1552-90</u>	<u>Standard Test Method for</u> <u>Sulfur in Petroleum Products</u> <u>(High-Temperature Method)</u>	<u>40 CFR part 75</u> <u>Appendices A and D</u>  <u>NR 439.08(2)(b)</u>
<u>(26) ASTM</u> <u>D1826-77</u> <u>D1826-88</u>	<u>Standard Test Method for</u> <u>Calorific Value of Gases in</u> <u>Natural Gas Range by</u> <u>Continuous Recording</u> <u>Calorimeter</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 19</u>  <u>40 CFR part 75</u> <u>Appendices E and F</u>  <u>NR 400.02(43e)</u>
<u>(27) ASTM</u> <u>D1945-91</u>	<u>Standard Test Method for</u> <u>Analysis of Natural Gas by Gas</u> <u>Chromatography</u>	<u>40 CFR part 75</u> <u>Appendices F and G</u>

<u>(28) ASTM</u> <u>D1946-90</u>	<u>Standard Practice for Analysis of Reformed Gas by Gas Chromatography</u>	<u>40 CFR part 75</u> <u>Appendices F and G</u>
<u>(29) ASTM</u> <u>D1989-92</u>	<u>Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isothermal Calorimeters</u>	<u>NR 439.08(1)(d)</u>
<u>(30) ASTM</u> <u>D2013-86</u>	<u>Standard Method of Preparing Coal Samples for Analysis</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 19</u>  <u>40 CFR part 75</u> <u>Appendix F</u>  <u>NR 439.08(1)(b)</u>
<u>(31) ASTM</u> <u><del>D2015-91</del></u> <u>D2015-93</u>	<u>Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 19</u>  <u>40 CFR part 75</u> <u>Appendices A, D, E and F</u>  <u>NR 400.02(43e)</u> <u>NR 439.08(1)(d)</u>
<u>(32) ASTM</u> <u>D2197-86 (1991)</u>	<u>Standard Test Methods for Adhesion of Organic Coatings by Scrape Adhesion</u>	<u>ANSI/AHA A135.5-1988</u>
<u>(33) ASTM</u> <u>D2234-89</u>	<u>Standard Test Methods for Collection of a Gross Sample of Coal</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 19</u>  <u>40 CFR part 75</u> <u>Appendix F</u>  <u>NR 439.08(1)(a)</u> <u>NR 439.085(2)(a)1</u> <u>NR 439.085(2)(b)1</u> <u>NR 439.085(2)(c)1</u>
<u>(34) ASTM</u> <u><del>D2369-81</del></u> <u>D2369-92</u>	<u>Standard Test Method for Volatile Content of Coatings</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 24,</u> <u>par. 2.2</u>
<u>(35) ASTM</u> <u>D2382-88</u>	<u>Standard Test Method for Heat of Combustion of Hydrocarbon Fuels by Bomb Calorimeter (High Precision Method)</u>	<u>40 CFR part 75</u> <u>Appendices D, E and F</u>

<u>(36) ASTM</u> <u>D2486-89</u>	<u>Standard Test Method for Scrub Resistance of Interior Latex Flat Wall Paints</u>	<u>ANSI/AHA A135.5-1988</u>
<u>(37) ASTM</u> <u>D2502-92</u>	<u>Standard Test Method for Estimation of Molecular Weight (Relative Molecular Mass) of Petroleum Oils from Viscosity Measurements</u>	<u>40 CFR part 75 Appendix G</u>
<u>(38) ASTM</u> <u>D2503-92</u>	<u>Standard Test Method for Relative Molecular Mass (Molecular Weight) of Hydrocarbons by Thermoelectric Measurement of Vapor Pressure</u>	<u>40 CFR part 75 Appendix G</u>
<u>(39) ASTM</u> <u>D2622-92</u>	<u>Standard Test Method for Sulfur in Petroleum Products by X-ray Spectrometry</u>	<u>40 CFR part 75 Appendices A and D</u>
<u>(40) ASTM</u> <u>D2880-89</u>	<u>Standard Specification for Gas Turbine Fuel Oils</u>	<u>NR 420.03(1)(a)</u>
<u>(41) ASTM</u> <u>D2986-71</u> <u>(1978)D2986-91</u>	<u>Standard Method Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Diocetyl Phthalate) Smoke Test</u>	<u>40 CFR part 60 Appendix A:</u> Method 5, par. 3.1.1 Method 12, par. 4.1.1 Method 13A, par. 6.1.1.2 Method 17, par. 3.1.1
<u>(42) ASTM</u> <u>D3173-87(1992)</u>	<u>Standard Test Method for Moisture in the Analysis Sample of Coal and Coke</u>	<u>40 CFR part 60 Appendix A, Method 19</u> <u>NR 439.08(1)(f)</u>
<u>(43) ASTM</u> <u>D3174-89</u>	<u>Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal</u>	<u>40 CFR part 75 Appendix G</u> <u>NR 439.08(1)(e)</u>
<u>(44) ASTM</u> <u>D3176-89</u>	<u>Standard Practice for Ultimate Analysis of Coal and Coke</u>	<u>40 CFR part 75 Appendices A and F</u> <u>NR 439.08(1)(g)</u>
<u>(45) ASTM</u> <u>D3177-89</u>	<u>Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke</u>	<u>40 CFR part 60 Appendix A, Method 19</u> <u>40 CFR part 75 Appendix A</u> <u>NR 439.08(1)(c)</u>

<u>(46) ASTM</u> <u>D3178-89</u>	<u>Standard Test Methods for Carbon and Hydrogen in the Analysis Sample of Coal and Coke</u>	<u>40 CFR part 75</u> <u>Appendix G</u>
<u>(47) ASTM</u> <u>D3238-90</u>	<u>Standard Test Method for Calculation of Carbon Distribution and Structural Group Analysis of Petroleum Oils by the n-d-M Method</u>	<u>40 CFR part 75</u> <u>Appendix G</u>
<u>(48) ASTM</u> <u>D3792-79</u> <u>D3792-91</u>	<u>Standard Test Method for Water Content of Water-Reducible Paints by Direct Injection into a Gas Chromatograph</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 24,</u> <u>par. 2.3</u>
<u>(49) ASTM</u> <u>D4017-81</u> <u>D4017-90</u>	<u>Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 24,</u> <u>par. 2.4</u>
<u>(50) ASTM</u> <u>D4052-91</u>	<u>Standard Test Method for Density and Relative Density of Liquids by Digital Density Meter</u>	<u>40 CFR part 75</u> <u>Appendix D</u>
<u>(51) ASTM</u> <u>D4057-88</u>	<u>Standard Practice for Manual Sampling of Petroleum and Petroleum Products</u>	<u>40 CFR part 75</u> <u>Appendix D</u>  NR 439.08(2)(a)
<u>(52) ASTM</u> <u>D4177-82(1990)</u>	<u>Standard Method Practice for Automatic Sampling of Petroleum and Petroleum Products</u>	<u>40 CFR part 75</u> <u>Appendix D</u>  NR 439.08(2)(a)
<u>(53) ASTM</u> <u>D4239-85</u> <u>D4239-93</u>	<u>Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods</u>	<u>40 CFR part 60</u> <u>Appendix A, Method 19</u>  <u>40 CFR part 75</u> <u>Appendix A</u>  NR 439.08(1)(c)
<u>(54) ASTM</u> <u>D4294-83</u> <u>D4294-90</u>	<u>Standard Test Method for Sulfur in Petroleum Products by <del>Non-Dispersive</del>Energy-Dispersive X-Ray Fluorescence Spectrometry Spectroscopy</u>	<u>40 CFR part 75</u> <u>Appendices A and D</u>  NR 439.08(2)(b)
<u>(55) ASTM</u> <u>E84-91a</u>	<u>Standard Test Method for Surface Burning Characteristics of Building Materials</u>	<u>ANSI/AHA A135.5-1988</u>

(56) ASTM  
G23-92

Standard Practice for  
Operating Light-Exposure  
Apparatus (Carbon-Arc Type)  
With and Without Water for  
Exposure of Nonmetallic  
Materials

ANSI/AHA A135.5-1988

SECTION 30. NR 484.06 is created to read:

NR 484.06 OTHER GOVERNMENT ORGANIZATIONS. The following materials from other government organizations listed in the first column of Tables 4A through 4C are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 444 to 499 in the third column of Tables 4A through 4C.

Note: Copies of these materials are available for inspection in the offices of the department of natural resources, secretary of state and revisor of statutes, Madison, Wisconsin or may be purchased for personal use by writing to the organizations listed in the individual subsections.

(1) The following is a document published in the federal register.

Note: Copies can be made for personal use from the federal register on microfiche, which is available at the department of natural resources library.

TABLE 4A  
FEDERAL REGISTER DOCUMENT REFERENCE

Citation	Title	Incorporated by Reference For
51 FR 43814, Dec. 4, 1986	Emissions Trading Policy Statement; General Principles for Creation, Banking, and Use of Emission Reduction Credits	NR 425.05(1)(b)2

(2) The following is a document from the U.S. bureau of mines.

Note: Copies may be purchased for personal use from:

Bureau of Mines  
U.S. Department of the Interior  
Washington DC 20240

TABLE 4B  
U.S. BUREAU OF MINES DOCUMENT REFERENCE

Document No.	Title	Incorporated by Reference For
Information Circular 7588	Fundamentals of Smoke Abatement, December, 1950, Ringlemann Chart	NR 400.02(80m) Note

(3) The following document is from the federal highway administration.

Note: Copies may be purchased for personal use from:

Superintendent of Documents  
U.S. Government Printing Office  
Washington DC 20402

TABLE 4C  
FEDERAL HIGHWAY ADMINISTRATION DOCUMENT REFERENCE

Document Number	Title	Incorporated by Reference For
FP-92, 1992	Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, Section 401	NR 447.04(2)(c)

SECTION 31. NR 484.08 is repealed.

SECTION 32. NR 484.11 is created to read:

NR 484.11 OTHER PRIVATE ORGANIZATIONS. The following materials from other private organizations listed in the first column of Tables 6A through 6E are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 444 to 499 listed in the third column of Tables 6A through 6E.

Note: Copies of these materials are available for inspection in the offices of the

department of natural resources, secretary of state and revisor of statutes, Madison, Wisconsin or may be purchased for personal use by writing to the organizations listed in the individual subsections.

(1) The following are documents from the American conference of governmental industrial hygienists (ACGIH).

Note: Copies may be purchased for personal use from:

American Conference of Governmental Industrial Hygienists  
 Technical Information Office  
 1330 Kemper Meadow Dr  
 Cincinnati OH 45240

TABLE 6A  
 ACGIH DOCUMENT REFERENCES

Document No.	Title	Incorporated by Reference For
(a) ISBN: 0-936712-72-4	1987-1988 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices	NR 445.04(1)(a)1 NR 445.04(1)(a)2 NR 445.04(1)(b) NR 445.04(2)(a) NR 445.04(2)(b) NR 445.05(1)(a)1 NR 445.05(1)(a)2 NR 445.05(1)(b) NR 445.05(2)(a) NR 445.05(2)(b)
(b) ISBN: 0-936712-86-4	1990-1991 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices	NR 445.04(4)(a)1 NR 445.04(4)(a)2 NR 445.04(4)(b) NR 445.05(4)(a)1 NR 445.05(4)(a)2 NR 445.05(4)(b) NR 445.06(4)
(c) ISBN: 1-882417-06-2	1994-1995 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices	NR 407.05(4)(c)1 NR 438.03(1)(b)
(d)	Industrial Ventilation: A Manual of Recommended Practice, 20th ed., 1988	NR 421.04(3)(c)1

(2) The following is a document from the American gas association

(AGA) Laboratories.

Note: Copies may be purchased for personal use from:

American Gas Association Laboratories  
8501 East Pleasant Valley Road  
Cleveland OH 44131

TABLE 6B  
AGA LABORATORIES DOCUMENT REFERENCE

Document No.	Title	Incorporated by Reference For
Standard Z21.6 - 1973 with addenda: Z21.6a - 1975 Z21.6b - 1978	American National Standard for Domestic Gas-Fired Incinerators	NR 415.07(1)(b)2 NR 415.07(2)(a)4

(3) The following are documents from the American hardboard association (AHA).

Note: Copies may be purchased for personal use from:

American Hardboard Association  
1210 W Northwest Highway  
Palatine IL 60067

TABLE 6C  
AHA DOCUMENT REFERENCES

Document No.	Title	Incorporated by Reference For
(a) ANSI/AHA A135.4-1982	Basic Hardboard	ANSI/AHA A135.5-1988
(b) ANSI/AHA A135.5-1988	Prefinished Hardboard Paneling	NR 422.02(7)

(4) The following is a document from the American petroleum institute (API).

Note: Copies may purchased for personal use from:

American Petroleum Institute  
1220 L Street NW  
Washington DC 20005

TABLE 6D  
API DOCUMENT REFERENCE

Document No.	Title	Incorporated by Reference For
Publication 2517	Evaporative Loss from External Floating Roof Tanks, 3rd edition, February 1989	NR 420.02(33) NR 420.03(3)(c)

(5) The following is a document from the architectural aluminum manufacturer's association (AAMA).

Note: Copies may be purchased for personal use from:

Architectural Aluminum Manufacturer's Association  
2700 River Road Suite 118  
Des Plaines IL 60018

TABLE 6E  
AAMA DOCUMENT REFERENCE

Document No.	Title	Incorporated by Reference For
AAMA 605.2-1985	Architectural Aluminum Manufacturer's Association Publication Number AAMA 605.2-1985	NR 422.02(21m)

SECTION 33. CROSS-REFERENCE CHANGES. In the sections of the code listed in Column A, the cross-references shown in Column B are changed to the cross-references shown in Column C.

A Code section	B Old Cross-Reference	C New Cross-Reference
NR 400.02(47m)	ch. NR 484	s. NR 484.05
NR 400.02(51m)	ch. NR 484	s. NR 484.05
NR 400.02(77)	ch. NR 484	s. NR 484.04
NR 400.02(80m)(note)	ch. NR 484	s. NR 484.06
NR 400.02(91)	ch. NR 484	s. NR 484.05
NR 407.02(17)(intro.)	ch. NR 484	s. NR 484.05
NR 407.05(4)(b)	ch. NR 484	s. NR 484.05
NR 420.02(33)	ch. NR 484	s. NR 484.11
NR 420.02(39m)	ch. NR 484	s. NR 484.04

NR 420.02(41)	ch. NR 484	s. NR 484.10
NR 420.03(3)(c)	ch. NR 484	s. NR 484.11
NR 425.05(1)(b)2.	ch. NR 484	s. NR 484.06
NR 438.02(1)	ch. NR 484	s. NR 484.05
NR 439.06(1)	ch. NR 484	s. NR 484.04
NR 439.06(1m)	ch. NR 484	s. NR 484.04
NR 439.06(2)(a)	ch. NR 484	s. NR 484.04
NR 439.06(2)(b)	ch. NR 484	s. NR 484.04
NR 439.06(3)(a)	ch. NR 484	s. NR 484.04
NR 439.06(3)(b)	ch. NR 484	s. NR 484.04
NR 439.06(3)(c)	ch. NR 484	s. NR 484.04
NR 439.06(3)(d)	ch. NR 484	s. NR 484.04
NR 439.06(3)(g)	ch. NR 484	s. NR 484.04
NR 439.06(3)(i)1.	ch. NR 484	s. NR 484.05
NR 439.06(3)(i)2.	ch. NR 484	s. NR 484.05
NR 439.06(4)(a)	ch. NR 484	s. NR 484.04
NR 439.06(4)(b)	ch. NR 484	s. NR 484.04
NR 439.06(5)	ch. NR 484	s. NR 484.04
NR 439.06(6)(a)	ch. NR 484	s. NR 484.04
NR 439.06(6)(b)	ch. NR 484	s. NR 484.04
NR 439.06(7)(a)	ch. NR 484	s. NR 484.04
NR 439.06(7)(b)	ch. NR 484	s. NR 484.04
NR 439.06(9)(a)1.	ch. NR 484	s. NR 484.04
NR 439.06(9)(a)2.	ch. NR 484	s. NR 484.04
NR 439.06(9)(b)	ch. NR 484	s. NR 484.04
NR 439.07(1)	ch. NR 484	s. NR 484.04
NR 439.07(8)(e)	ch. NR 484	s. NR 484.04
NR 439.07(8)(f)	ch. NR 484	s. NR 484.04
NR 439.07(8)(g)	ch. NR 484	s. NR 484.04
NR 439.07(8)(h)	ch. NR 484	s. NR 484.04
NR 439.07(8)(i)	ch. NR 484	s. NR 484.04
NR 439.07(8)(j)	ch. NR 484	s. NR 484.04
NR 439.07(8)(k)	ch. NR 484	s. NR 484.04
NR 439.07(8)(m)	ch. NR 484	s. NR 484.04
NR 439.07(8)(n)	ch. NR 484	s. NR 484.04
NR 439.085(2)(a)1.	ch. NR 484	s. NR 484.10
NR 439.09(1)	ch. NR 484	s. NR 484.04
NR 439.09(2)	ch. NR 484	s. NR 484.04
NR 439.09(3)	ch. NR 484	s. NR 484.04
NR 439.09(4)	ch. NR 484	s. NR 484.04
NR 439.09(5)	ch. NR 484	s. NR 484.04
NR 439.09(6)	ch. NR 484	s. NR 484.04
NR 439.09(7)	ch. NR 484	s. NR 484.04
NR 439.095(6)	ch. NR 484	s. NR 484.04

SECTION 34. TERMINOLOGY CHANGES. Wherever the term "BTU" appears in the following sections of the code, the term "Btu" is substituted: NR 439.07(8)(b) and (g), 439.085(2)(a) to (d) and (3)(a) and (b) and 439.095(5)(a).

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The foregoing rule was approved and adopted by the State of Wisconsin Natural Resources Board on October 27, 1994.

The rule shall take effect the first day of the month following publication in the Wisconsin administrative register as provided in s. 227.22(2)(intro.), Stats.

Dated at Madison, Wisconsin

December 4, 1994.

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES

By George E. Meyer  
George E. Meyer, Secretary

(SEAL)

