

## Chapter NR 484

## INCORPORATION BY REFERENCE

NR 484.01	Applicability; purpose	NR 484.06	Other government organiza- tions
NR 484.02	Definitions	NR 484.09	Other materials in chs. NR 445 to 483
NR 484.03	Code of federal regulations	NR 484.10	American society for testing and materials
NR 484.04	Code of federal regulations ap- pendices	NR 484.11	Other private organizations
NR 484.05	National technical informa- tion service		

**NR 484.01 Applicability; purpose.** (1) **APPLICABILITY.** This chapter applies to all air contaminant sources governed by chs. NR 400 to 499 and to their owners and operators.

(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 445 to 499.

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

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86; am. Register, September, 1987, No. 381, eff. 10-1-87; am. Register, February, 1990, No. 410, eff. 3-1-90; am. Register, May, 1992, No. 437, eff. 6-1-92; am. (2), Register, February, 1995, No. 470, eff. 3-1-95.

**NR 484.02 Definitions.** The definitions contained in ch. NR 400 apply to the terms used in this chapter.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86.

**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 445 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.

	CFR Reference	Title	Incorporated by Reference For
(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)

**History:** Cr. Register, December, 1988, No. 396, eff. 1-1-89; am. (3), Register, September, 1989, No. 405, eff. 10-1-89; renum. from NR 484.06, Register, February, 1990, No. 410, eff. 3-1-90; am. (intro.) and (3), cr. (6), Register, August, 1991, No. 428, eff. 9-1-91; am. (intro.), r. (2) and (4), renum. (1), (3), (5) and (6) to be (3), (1), (2) and (5) and am. (1) and (5), (3) renum. from NR 484.04 (3) and am., Register, May, 1992, No. 437, eff. 6-1-92; renum. (5) to be (6) and am., cr. (5), Register, May, 1993, No. 449, eff. 6-1-93; am. (intro.) and (5), Register, June, 1994, No. 462, eff. 7-1-94; r. and recr., Register, February, 1995, No. 470, eff. 3-1-95.

**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 445 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:

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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)

	CFR Appendix Referenced	Title	Incorporated by Reference For
(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)

History: Cr. Register, August, 1991, No. 428, eff. 9-1-91; am. (intro.), (5) and (6), renum. (3) to be NR484.03 (4) and am., renum. (4) and (7) to be (3) and (4) and am. (4), Register, May, 1992, No. 437, eff. 6-1-92; renum. (2), (3) (intro.) (a) to (c) to be (2) (d), (intro.), (c), (a) and (b) and am. (2) (d), Register, May, 1993, No. 449, eff. 6-1-93; am. (intro.), (2) (d), cr. (7), Register, February, 1995, No. 470

Register, December, 1993, No. 456, eff. 1-1-94; cr. (1) (c), Register, June, 1994, No. 462, eff. 7-1-94; r. and recr. Register, February, 1995, No. 470, eff. 3-1-95.

**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 445 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)

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

**History:** Cr. (intro.) and (1), (2) renum. from NR 484.03 (2) and am. Register, February, 1990, No. 410, eff. 3-1-90; cr. (2) to (4), (6) and (7), renum. (2) to be (5), Register, August, 1991, No. 428, eff. 9-1-91; am. (1), (4) to (6), renum (7) (a) to (c) to be (7) (c) to (e) and am., cr. (7) (a) and (b), Register, May, 1992, No. 437, eff. 6-1-92; am. (1), Register, January, 1993, No. 445, eff. 2-1-93; am. (3), cr. (3) (b) to (e) and (8), Register, May, 1993, No. 449, eff. 6-1-93; cr. (1m), am. (3) (b), Register, December, 1993, No. 456, eff. 1-1-94; renum. (2) to be (9) and am. Register, August, 1994, No. 464, eff. 9-1-94; r. and recr. Register, February, 1995, No. 470, eff. 3-1-95.

**NR 484.06 Code of federal regulations and other materials in ch. NR 439.** **History:** Cr. Register, September, 1987, No. 381, eff. 10-1-87; renum. from NR 484.04 and am. (1) (b) and (2) (c), cr. (1) (zp), Register, February, 1990, No. 410, eff. 3-1-90; renum. (1) (zk) to (zp) to be (zl) to (zp) and (zk), renum. (2) (a) to (t) to be (j), (c), (h), (f), (n), (s), (k), (g), (l), (q), (r), (b), (a), (t), (e), (d), (i), (o), (p) and (m), and am. (c), (l) and (t), Register, August, 1991, No. 428, eff. 9-1-91; am. (1) (intro.), (2) (intro.), (a) to (c), (e) to (h), (k) to (t), Register, May, 1992, No. 437, eff. 6-1-92; am. (2) (intro.), cr. (2) (u) and (v), Register, January, 1993, No. Register, February, 1995, No. 470

445, eff. 2-1-93; renum. (1) and (2) to be (2) and (4) and am. (2) and (4) (intro.), cr. (1) and (3), Register, December, 1993, No. 456, eff. 1-1-94; correction in (4), made under s. 13.93 (2m) (b) 7., Stats., Register, June, 1994, No. 462; r. (1) to (3), renum. (4) to be NR 484.10 and am., Register, February, 1995, No. 470, eff. 3-1-95.

**NR 484.06 Other government organizations.** The following materials from other government organizations listed in the first column of Tables 4A to 4C are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 445 to 499 in the third column of Tables 4A to 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 Number	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)

History: Cr. Register, February, 1995, No. 470, eff. 3-1-95.

NR 484.08 Code of federal regulations in chs. NR 445 to 483. History: Renum. from NR 154.19 (7) (a) and am. Register, September, 1986, No. 369, eff. 10-1-86; am. (1), Register, December, 1988, No. 396, eff. 1-1-89; renum. from NR 484.025 and am. (intro.), (4) and (5), Register, February, 1990, No. 410, eff. 3-1-90; am. (intro.), renum. (1) to (5) to be (5), (3), (4), (1) and (2), Register, May, 1992, No. 437, eff. 6-1-92; am. (1) and (2), renum. (3) to (5) to be (4) to (6), cr. (3) and (7) to (9), Register, October, 1992, No. 442, eff. 11-1-92; r., Register, February, 1995, No. 470, eff. 3-1-95.

NR 484.09 Other materials in chs. NR 445 to 483. The materials listed in this section are incorporated by reference for the corresponding sections noted. Some of the materials are also incorporated for Appendix B of 40 CFR part 61 as in effect on July 1, 1990. Since Appendix B is incorporated by reference in s. NR 484.08, materials incorporated by reference for that Appendix are hereby also incorporated by reference and made a part of this section. The 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 the corresponding address noted.

(1) The following materials are available for purchase from at least one of the following addresses: American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103, or the University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

(a) ASTM D737-75 (1980), Standard Test Method for Air Permeability of Textile Fabrics, for s. NR 447.15 (1) (a) 1.

(b) ASTM D1193-91, Standard Specification for Reagent Water, for 40 CFR part 61, Appendix B, Method 101, par. 6.1.1.

(c) ASTM D2986-91, Standard Method for Evaluation of Air Assay Media by the Monodisperse DOP (Diocetyl Phthalate) Smoke Test, for 40 CFR part 60, Appendix A, Method 5, par. 3.1.1.

(2) The threshold limit values and biological exposure indices for 1987-1988, published by the American conference of governmental industrial hygienists (publication ISBN: 0-936712-72-4), are incorporated by reference for ss. NR 445.04 (1) (a) 1 and 2 and (b) and (2) (a) and (b) and 445.05 (1) (a) 1 and 2 and (b) and (2) (a) and (b). This publication may be purchased for personal use from the American Conference of Governmental Industrial Hygienists (ACGIH), 6500 Glenway Avenue, Cincinnati, OH 45211.

(3) The 1990-1991 Threshold Limit Values for Chemical Substances and Biological Exposure Indices, published by the American conference Register, February, 1995, No. 470



of governmental industrial hygienists (publication ISBN: 0-936712-86-4), is incorporated by reference for ss. NR 445.04 (4) (a) 1 and 2, (b) and (4r) (b) 4, 445.05 (4) (a) 1 and 2, (b) and (4r) (b) 4 and 445.06 (4). This publication may be purchased for personal use from the American Conference of Governmental Industrial Hygienists (ACGIH), 6500 Glenway Avenue, Cincinnati, OH 45211.

(4) Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-92, Section 401, 1992, is incorporated by reference for s. NR 447.04 (2) (c).

Note: It is the intention of the DNR to repeal s. NR 484.09 in rule order AM-15-94 to be published in Spring, 1995.

History: Renum. from NR 154.19 (7) (b) and am. Register, September, 1986, No. 369, eff. 10-1-86; cr. (2), Register, July, 1988, No. 391, eff. 8-1-88; renum. from NR 484.03 and 484.05 and am. (intro.) and (1) (a), renum (2) to be NR 484.05 (2), Register, February, 1990, No. 410, eff. 3-1-90; am. (intro.), (1) (a) to (c) and (2), cr. (3), Register, May, 1992, No. 437, eff. 6-1-92; am. (1) (a), cr. (4), Register, October, 1992, No. 442, eff. 11-1-92; am. (3), Register, December, 1994, No. 468, eff. 1-1-95.

NR 484.10 American society for testing and materials. The American society for testing and materials (ASTM) standards listed in the first column of Table 5 are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 445 to 499 in the third column of Table 5. Some of the 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, 1994. Since these Appendices are incorporated by reference in s. NR 484.04, standards listed in this section which are incorporated by reference for the Appendices are hereby also incorporated by reference and made a part of this chapter and chs. NR 400 to 439 and 445 to 499.

Note: 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 from:

University Microfilms International  
 300 North Zeeb Road  
 Ann Arbor MI 48106

TABLE 5  
 ASTM STANDARD REFERENCES

Standard Number	Standard Title	Incorporated by Reference For
(1) ASTM C136-84a	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	NR 415.02 (9)
(2) ASTM D97-87	Standard Test Methods for Pour Point of Petroleum Oils	NR 420.02 (41)

	Standard Number	Standard Title	Incorporated by Reference For
(3)	ASTM D129-91	Standard Test Method for Sulfur in Petroleum Products (General Bomb Method)	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendices A and D NR 439.08 (2) (b)
(4)	ASTM D240-92	Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendices A, D, E and F NR 400.02 (43e) NR 439.08 (2) (c)
(5)	ASTM D287-92	Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)	40 CFR part 75 Appendix D
(6)	ASTM D323-90	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)	NR 420.02 (31)
(7)	ASTM D388-92	Standard Classification of Coals by Rank	40 CFR part 75 Appendix F
(8)	ASTM D396-92	Standard Specification for Fuel Oils	NR 400.02 (80) NR 420.03 (1) (a)
(9)	ASTM D523-89	Test Method for Specular Gloss	ANSI/AHA A135.5-1988
(10)	ASTM D737-75 (1980)	Standard Test Method for Air Permeability of Textile Fabrics	NR 447.15 (1) (a) 1.
(11)	ASTM D941-88	Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Lipkin Bicapillary Pycnometer	40 CFR part 75 Appendix D

	Standard Number	Standard Title	Incorporated by Reference For
(12)	ASTM D968-81 (1991)	Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive	ANSI/AHA A135.5-1988
(13)	ASTM D975-92a	Standard Specification for Diesel Fuel Oils	NR 420.03 (1) (a)
(14)	ASTM D1037-91	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials	ANSI/AHA A135.5-1988
(15)	ASTM D1072-90	Standard Test Method for Total Sulfur in Fuel Gases	40 CFR part 75 Appendix D
(16)	ASTM D1193-91	Standard Specification for Reagent Water	40 CFR part 60 Appendix A: Method 6, par. 3.1.1 Method 7, par. 3.2.2 Method 7A, par. 3.2 Method 7C, par. 3.1.1 Method 7D, par. 3.1.1 Method 8, par. 3.1.3 Method 11, par. 6.1.3 Method 12, par. 4.1.3 Method 13A, par. 6.1.2 40 CFR part 61 Appendix B, Method 101, par. 6.1.1
(17)	ASTM D1217-91	Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer	40 CFR part 75 Appendix D
(18)	ASTM D1250-80 (1990)	Standard Guide for Petroleum Measurement Tables	40 CFR part 75 Appendix D

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

Standard Number	Standard Title	Incorporated by Reference For
(27) ASTM D1945-91	Standard Test Method for Analysis of Natural Gas by Gas Chromatography	40 CFR part 75 Appendices F and G
(28) ASTM D1946-90	Standard Practice for Analysis of Reformed Gas by Gas Chromatography	40 CFR part 75 Appendices F and G
(29) ASTM D1989-92	Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters	NR 439.08 (1) (d)
(30) ASTM D2013-86	Standard Method of Preparing Coal Samples for Analysis	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendix F NR 439.08 (1) (b)
(31) ASTM D2015-93	Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendices A, D, E and F NR 400.02 (43e) NR 439.08 (1) (d)
(32) ASTM D2197-86 (1991)	Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion	ANSI/AHA A135.5-1988
(33) ASTM D2234-89	Standard Test Methods for Collection of a Gross Sample of Coal	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendix F NR 439.08 (1) (a) NR 439.085 (2) (a) 1. NR 439.085 (2) (b) 1. NR 439.085 (2) (c) 1.

	Standard Number	Standard Title	Incorporated by Reference For
(34)	ASTM D2369-92	Standard Test Method for Volatile Content of Coatings	40 CFR part 60 Appendix A, Method 24, par. 2.2
(35)	ASTM D2382-88	Standard Test Method for Heat of Combustion of Hydrocarbon Fuels by Bomb Calorimeter (High Precision Method)	40 CFR part 75 Appendices D, E and F
(36)	ASTM D2486-89	Standard Test Method for Scrub Resistance of Interior Latex Flat Wall Paints	ANSI/AHA A135.5-1988
(37)	ASTM D2502-92	Standard Test Method for Estimation of Molecular Weight (Relative Molecular Mass) of Petroleum Oils from Viscosity Measurements	40 CFR part 75 Appendix G
(38)	ASTM D2503-92	Standard Test Method for Relative Molecular Mass (Molecular Weight) of Hydrocarbons by Thermoelectric Measurement of Vapor Pressure	40 CFR part 75 Appendix G
(39)	ASTM D2622-92	Standard Test Method for Sulfur in Petroleum Products by X-ray Spectrometry	40 CFR part 75 Appendices A and D
(40)	ASTM D2880-89	Standard Specification for Gas Turbine Fuel Oils	NR 420.03 (1) (a)
(41)	ASTM D2986-91	Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Dioctyl Phthalate) Smoke Test	40 CFR part 60 Appendix A: 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

Standard Number	Standard Title	Incorporated by Reference For
(42) ASTM D3173-87 (1992)	Standard Test Method for Moisture in the Analysis Sample of Coal and Coke	40 CFR part 60 Appendix A, Method 19 NR 439.08 (1) (f)
(43) ASTM D3174-89	Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal	40 CFR part 75 Appendix G NR 439.08 (1) (e)
(44) ASTM D3176-89	Standard Practice for Ultimate Analysis of Coal and Coke	40 CFR part 75 Appendices A and F NR 439.08 (1) (g)
(45) ASTM D3177-89	Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendix A NR 439.08 (1) (c)
(46) ASTM D3178-89	Standard Test Methods for Carbon and Hydrogen in the Analysis Sample of Coal and Coke	40 CFR part 75 Appendix G
(47) ASTM D3238-90	Standard Test Method for Calculation of Carbon Distribution and Structural Group Analysis of Petroleum Oils by the n-d-M Method	40 CFR part 75 Appendix G
(48) ASTM D3792-91	Standard Test Method for Water Content of Water-Reducible Paints by Direct Injection into a Gas Chromatograph	40 CFR part 60 Appendix A, Method 24, par. 2.3
(49) ASTM D4017-90	Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method	40 CFR part 60 Appendix A, Method 24, par. 2.4

	Standard Number	Standard Title	Incorporated by Reference For
(50)	ASTM D4052-91	Standard Test Method for Density and Relative Density of Liquids by Digital Density Meter	40 CFR part 75 Appendix D
(51)	ASTM D4057-88	Standard Practice for Manual Sampling of Petroleum and Petroleum Products	40 CFR part 75 Appendix D NR 439.08 (2) (a)
(52)	ASTM D4177-82 (1990)	Standard Practice for Automatic Sampling of Petroleum and Petroleum Products	40 CFR part 75 Appendix D NR 439.08 (2) (a)
(53)	ASTM D4239-93	Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods	40 CFR part 60 Appendix A, Method 19 40 CFR part 75 Appendix A NR 439.08 (1) (c)
(54)	ASTM D4294-90	Standard Test Method for Sulfur in Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectroscopy	40 CFR part 75 Appendices A and D NR 439.08 (2) (b)
(55)	ASTM E84-91a	Standard Test Method for Surface Burning Characteristics of Building Materials	ANSI/AHA A135.5-1988
(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

History: Renum. from NR 484.06 (4) and am., Register, February, 1995, No. 470, eff. 3-1-95.

**NR 484.11 Other private organizations.** The following materials from other private organizations listed in the first column of Tables 6A to 6E Register, February, 1995, No. 470



are incorporated by reference for the corresponding sections of chs. NR 400 to 439 and 445 to 499 listed in the third column of Tables 6A to 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 Number	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 445.04 (4r) (b) 4. NR 445.05 (4) (a) 1. NR 445.05 (4) (a) 2. NR 445.05 (4) (b) NR 445.05 (4r) (b) 4. 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 Number	Title	Incorporated by Reference For
Standard Z21.6 - 1973 with addenda: Z21.6a - 1975 Z21.6b - 1978	American National Standard for Do- mestic Gas-Fired In- cinerators	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 Number	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 Hard- board 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 Number	Title	Incorporated by Reference For
Publication 2517	Evaporative Loss from External Float- ing 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 Number	Title	Incorporated by Reference For
AAMA 605.2-85	Architectural Aluminum Manufacturer's Association Publication Number AAMA 605.2-85	NR 422.02 (21m)

History: Cr. Register, February, 1995, No. 470, eff. 3-1-95.