# Chapter NR 484 <br> INCORPORATION BY REFERENCE 

| NR 484.01 | Applicability; purpose. | NR 484.05 | National technical information service. |
| :--- | :--- | :--- | :--- |
| NR 484.02 | Definitions. | NR 484.06 | Other government organizations. |
| NR 484.03 | Code of federal regulations. | NR 484.10 | American society for testing and materials. |
| NR 484.04 | Code of federal regulations appendices. | NR 484.11 | Other private organizations. |

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. 227.21 (2) and 285.11, 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; correction in (2) made under s. 13.93 (2m) (b) 7., Stats., 1995, No. 470, eff. 3-1-95; correcter, January, 1997, No. 493.

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 April 1, 2002 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, secretary of state and revisor of statutes, Madison, Wisconsin and in some public libraries or may be purchased for personal use from:

Superintendent of Documents
PO Box 371954
PO Box 371954
Pittsburgh PA 15250-7954

Table 1
CFR References

|  | CFR Reference | Title | Incorporated by Reference For |
| :--- | :--- | :--- | :--- |
| (1) | 29 CFR part 1910 subpart Z | Toxic and Hazardous Substances | NR 465 |
| (2) | 29 CFR 1910.145(d)(4) |  | NR 447.12 (4) (a) 2. |
|  |  |  | NR 447.14 (2) (a) 2. |
|  |  |  | NR 447.17 (2) (a) 2. |
| (3) | 29 CFR 1910.1001(j)(4)(ii) |  | NR 447.13 (1) (a) 4. |
| (4) | 29 CFR 1926.1101(k)(8)(iii) |  | NR 447.13 (1) (a) 4. |
| (5) | 40 CFR part 53 |  | Ambient Air Monitoring Reference and Equiva- |
|  | NR 404.02 (4m) |  |  |
| (6) | 40 CFR 63.457 | NR 404.06 (3) (b) |  |

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; r. (5) and (6), Register, December, 1995, No. 480, eff. 1-1-96; am. (intro.), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.) and (4), Register, November, 1999, No. 527, eff. 12-1-99; CR 00-160: am. Table 1, Register August 2001, No. 548, eff. 9-1-01; CR 00-175: am. (intro.) and Table 1 Register March 2002 No. 555, eff. 4-1-02; CR 02-146: am. (3) and (4) Register October 2003 No. 574, eff. 11-1-03.

NR 484.04 Code of federal regulations appendices. The appendices to federal regulations in effect on April 1, 2002 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 refer-
ence 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, secretary of state and revisor of statutes, Madison, Wisconsin and in some public libraries or may be purchased for personal use from:

Superintendent of Documents
PO Box 371954
Pittsburgh PA 15250-7954

Table 2
CFR Appendix References

|  | CFR Appendix Referenced | Title | Incorporated by Reference For |
| :---: | :---: | :---: | :---: |
| (1) | 29 CFR 1926.58 <br> 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 <br> Appendices A to K |  | NR 404.02 (8) <br> NR 404.06 (2) |
| (3) | 40 CFR part 50 <br> 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 <br> 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 $\mathrm{PM}_{10}$ in the Atmosphere | NR 404.02 (4m) |
| (6) | 40 CFR part 50 <br> Appendix K | Interpretation of the National Ambient Air Quality Standards for Particulate Matter | NR 404.04 (8) (b) 3. |
| (7) | 40 CFR part 51 Subpart S Appendix B | Test Procedures | NR 485.02 (18) |
| (8) | 40 CFR part 51 Subpart S Appendix E | Transient Test Driving Cycle | NR 485.02 (22) |
| (9) | 40 CFR part 51 <br> Appendix M | Recommended Test Methods for State Implementation Plans | NR 439 <br> NR 460.06 (4) (b) (intro.) <br> NR 465.09 (4) (b) 1. and 2. <br> NR 466.09 (5) |
| (10) | 40 CFR part 51 <br> Appendix S, Section IV | Sources That Would Locate in a Designated Nonattainment Area | NR 405.11 (1) (e) |
| (11) | 40 CFR part 51 <br> Appendix W | Guideline on Air Quality Models (Revised) | NR 405.10 <br> NR 489.09 (3) (intro.) |
| (12) | 40 CFR part 58 Appendix B | Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring | NR 405.11 (3) |
| (13) | 40 CFR part 60 <br> Appendix A | Test Methods | NR 400.02 (131) NR 439 NR 460 to 469 |
| (14) | 40 CFR part 60 <br> Appendix A, Method 3 | Gas Analysis for the Determination of Dry Molecular Weight | NR 449.09 (6) (a) 3. |
| (15) | 40 CFR part 60 <br> Appendix A, Method 5 | Determination of Particulate Emissions from Stationary Sources | 40 CFR part 61 Appendix B, Method 101 |
| (16) | 40 CFR part 60 <br> Appendix A, Method 18 | Measurement of Gaseous Organic Compound Emissions by Gas Chromatography | $\begin{aligned} & \text { NR } 400.02 \text { (77) } \\ & \text { NR } 422.142 \text { (5) (a) } \end{aligned}$ |
| (17) | 40 CFR part 60 <br> Appendix A, Method 21 | Determination of Volatile Organic Compounds Leaks | NR 420.02 (39m) <br> NR 421.02 (21) <br> NR 421.05 (2) (e) <br> NR 421.06 (2) (e) |
| (18) | 40 CFR part 60 <br> Appendix A, Method 22 | Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares | NR 415.075 (3) (c) |
| (19) | 40 CFR part 60 <br> Appendix A, Method 25 | Determination of Total Gaseous Nonmethane Organic Emissions as Carbon | NR 422.42 (5) (a) |
| (20) | 40 CFR part 60 <br> Appendix A, Method 25A | Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer | NR 422.142 (5) (a) |
| (21) | 40 CFR part 60 <br> Appendix B | Performance Specifications | NR 428 <br> NR 439 <br> NR 460 to 469 |
| (21m) | 40 CFR part 60 Appendix F | Quality Assurance Procedures | NR 466.10 (2) |
| (21s) | 40 CFR part 61 <br> Subpart M, Appendix A | Interpretive Rule Governing Root Removal Operations | NR 447.08 (1) (am) |

Table 2 (Continued) CFR Appendix References

|  | CFR Appendix <br> Referenced |  | Title |
| :--- | :--- | :--- | :--- |

History: Cr. Register, August, 1991, No. 428, eff. 9-1-91; am. (intro.), (5) and (6), renum. (3) to be NR 484.03 (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, 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; cr. (9), (19), Register, April, 1995, No. 472, eff. 5-1-95; cr. (13m), (15e) and (15m), Register, June, 1995, No. 474, eff. 7-1-95; am. (9), Register, September, 1995, No. 477, eff. 10-1-95; am. (18), cr. (18m), renum. (7) to (21) to be (9) to (27), cr. (7) and (8), Register, December, 1995, No. 480, eff. 1-1-96; am. (27), Register, January, 1997, No. 493, eff. 2-1-97; am. (intro.), (13), (16), (21) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, November, 1999, No. 527, eff. 12-1-99; am. (9), rn. (24) to (27) to be (25) to (28), cr. (21m) and (24) and am. (24), Register, March, 2000, No. 531, eff. 4-1-00; am. (21) and (27), Register, January, 2001, No. 541, eff. 2-1-01; CR 00-160: am. (9) and (24) of Table 2, Register August 2001 No. 548, eff. 9-1-01; CR 00-175: am. (intro.) and Table 2 Register March 2002 No. 555, eff. 4-1-02; CR 02-146: cr. (21s) Register October 2003 No. 574, eff. 11-1-03.

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 (74) <br> NR 400.02 (86) <br> NR 400.02 (91) <br> NR 400.02 (149) <br> NR 405.02 (8) <br> NR 407.02 (4) (intro.) <br> NR 407.05 (4) (b) <br> NR 408.02 (5) <br> NR 410.02 (4) <br> NR 421.02 (3) <br> NR 421.02 (17) <br> NR 422.02 (112) <br> NR 422.095 (1) <br> NR 422.15 (1) (intro.) <br> NR 437.07 (2) (a) 4. <br> NR 438.02 (1) <br> NR 465.02 (51) |
| (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) | NTIS Order No. PB 93-192664 | Metropolitan Areas, 1993 | NR 400.02 (96) |
| (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) |
| (8) | EPA, OAQPS, AP-42 | Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, January 1995, as revised by Supplement A (February 1996), Supplement B (November 1996), Supplement C (November 1997), Supplement D (July 1998), Supplement E (November 1999), Supplement F (October 2000) and Update 2001 (December 2001) | NR 437.04 (2) (a) 6. <br> NR 438.03 (5) (a) <br> NR 489.09 (2) (b) |
| (8g) | EPA, OAQPS, AP-42 | Compilation of Air Pollutant Emission Factors, Volume II: Mobile Sources, Fourth Edition, September 1985, as revised by Supplement A (1991) | NR 437.04 (2) (a) 7. |
| (8r) | EPA, OAQPS, AP-42 | Compilation of Air Pollutant Emission Factors, Volume II: Mobile Sources, Fifth Edition, Appendix G (1998), Appendix H (1995), Appendix I (1998), Appendix J (1998), and Appendix K (1998) | NR 437.04 (2) (a) 8. |
| (9) | EPA-450/3-84-014, December 1984 | Review of National Emission Standards for Mercury | NR 446.04 (3) (d) Note |
| (14) | NTIS Order No. DE95003295INZ | Voluntary reporting of greenhouse gases under Section 1605(b) of the Energy Policy Act of 1992 General Guidelines, October 1994 | NR 437.04 (2) (a) 17. |
| (15) | NTIS Order No. DE95003296INZ | Sector-Specific Issues and Reporting Methodologies Supporting the General Guidelines for the Voluntary Reporting of Greenhouse Gases under Section 1605(b) of the Energy Policy Act of 1992, Volume I, Electricity Supply Sector, Residential and Commercial Buildings Sector, and Industrial Sector, October 1994. | NR 437.04 (2) (a) 18. |
| (16) | NTIS Order No. DE95003297INZ | Sector-Specific Issues and Reporting Methodologies Supporting the General Guidelines for the Voluntary Reporting of Greenhouse Gases under Section 1605(b) of the Energy Policy Act of 1992, Volume II, Transportation Sector, Forestry Sector, and Agricultural Sector, October 1994. | NR 437.04 (2) (a) 19. | 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; r. (6), (7), Register, April, 1995, No. 472, eff. 5-1-95; am. (3), Register, June, 1995, No. 474, eff. 7-1-95; am. (1), Register, August, 1995, No. 476, eff. 9-1-95; am. (8), Register, September 1995, No. 477, eff. 10-1-95; am. (3), Register, December, 1995, No. 480, eff. 1-1-96; am. (1), (8), Register, January, 1997, No. 493, eff. 2-1-97; am. (1), (3), (8), r. and recr. (9), r. (10), Register, November, 1999, No. 527, eff. 12-1-99; CR 00-160: am. (1) of Table 3, Register August 2001 No. 548, eff. 9-1-01; CR 02-012: am. (1) and (8) of Table 3, cr. (8g), (8r), (14), (15) and (16) of Table 3, Register October 2002 No. 562, eff. 11-1-02.

NR 484.06 Other government organizations. The following materials from other government organizations listed in the first column of Tables 4A to 4G 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 4G.

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 <br> for Creation, Banking, and Use of Emission Reduction | NR 408.06 (1) (d) Note <br> NR 425.05 (1) (b) 2. |
|  | Credits |  |

(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, <br> 1950, Ringlemann Chart | NR 400.02 (137) Note |

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

Note: Copies may be purchased for personal use from:
Superintendent of Documents
PO Box 371954
Pittsburgh PA 15250-7954
Table 4C
Federal Highway Administration Document Reference

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

(4) The following are from the U.S. environmental protection agency.

Note: Paragraph (a) lists a database document. Electronic copies may be downloaded for personal use from the following internet address:
http://www.epa.gov/ttn/chief/software/fire/index.html
Those without access to a computer can obtain printed copies of all or of specific
Note: Copies of the documents listed in par. (b) may be downloaded for personal use from the following internet address: http://www.epa.gov/ttn/chief/eiip/techreport/index.html.
Those without access to a computer can obtain printed copies from:
Info CHIEF parts of FIRE from:

Emission Factor And Inventory Group (MD-D205-01)
Office of Air Quality Planning and Standards
Box 7921
U. S. Environmental Protection Agency

Research Triangle Park NC 27711
101 South Webster Street
Phone: (919) 541-1000
Fax: (919) 541-5680
Table 4D
U.S. Environmental Protection Agency Document References

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| (a) EPA, OAQPS, FIRE 6.23 | Factor Information Retrieval Data System, Version <br> 6.23 | NR 437.04 (2) (a) 22. <br> NR 438.02 (2) |
| (b) EPA, EIIP Technical Report |  | NR 438.03 (5) (a) |
| Series |  |  |

Table 4D (Continued)
U.S. Environmental Protection Agency Document References

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| 3. Volume III | Area Sources and Area Source Method Abstracts, | NR 437.04 (2) (a) 11. |
| 4. Volume IV | June 2001 |  |
| 5. Volume VI | Mobile Sources, September 1997 | NR 437.04 (2) (a) 12. |
|  | Quality Assurance Procedures and DARS Software, | NR 437.04 (2) (a) 13. |
| 6. Volume VII | September 1997 |  |
| 7. Volume VIII Data Management Procedures, January 1999 | NR 437.04 (2) (a) 14. |  |
| 8. Volume IX | Estimating Greenhouse Gas Emissions, October 1999 | NR 437.04 (2) (a) 15. |
|  | Particulate Emissions, September 1999 | NR 437.04 (2) (a) 16. |

(5) The following are documents from the State of California, Department of Consumer Affairs, Bureau of Home Furnishings and Thermal Insulation.

Note: Copies may be downloaded for personal use from the following Internet address: http://www.dca.ca.gov/bhfti/bulletin.htm.

Those without access to a computer can obtain printed copies from:

## Table 4E

State of California Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| (a) Technical Bulletin 116 | Requirements, Test Procedure and Appara- <br> tus for Testing the Flame Retardance of <br> Upholstered Furniture | NR 465.04 (1) (b) 1. |
| (b) Technical Bulletin 117 | Requirements, Test Procedure and Appara- <br> tus for Testing the Flame Retardance of <br> Resilient Filling Materials Used in Uphol- <br> stered Furniture | NR 465.04 (1) (b) 1. |
| (c) Technical Bulletin 133 | Flammability Test Procedure for Seating <br> Furniture for Use in Public Occupancies | NR 465.04 (1) (b) 1. |

(6) The following document is from the intergovernmental panel on climate change.
Note: Copies may be downloaded for personal use from the following internet address: http://www.ipcc-nggip.iges.or.jp/public/gl/invs1.htm.

Those without access to a computer can obtain printed copies from: IPCC Secretariat

State of California
Department of Consumer Affairs
Bureau of Home Furnishings and Thermal Insulation
3485 Orange Grove Avenue
North Highlands CA 95660-5595
(916) 920-6951

Requirements, Test Procedure and Appara- NR 465.04 (1) (b) 1. us for Testing the Flame Retardance of

Requirements, Test Procedure and Appara- NR 465.04 (1) (b) 1. tus for Testing the Flame Retardance of Resilient Filling Materials Used in Uphol-

Flammability Test Procedure for Seating NR 465.04 (1) (b) 1. Furniture for Use in Public Occupancies

C/O World Meteorological Organization
7bis Avenue de la Paix
C.P. 2300

CH- 1211 Geneva 2, Switzerland
Phone: +41-22-730-8208
Fax: +41-22-730-8025
e-mail: ipcc_sec@gateway.wmo.ch

Table 4F
IPCC Document Reference

| Publishing Organization | Title |  |
| :--- | :--- | :--- | Incorporated by Reference For.

(7) The following document is from the U.S. department of energy.

Note: Copies may be downloaded for personal use from the following internet address: http://www.ipmvp.org/info/Vol1book.pdf.

Those without access to a computer can obtain printed copies from: Energy Efficiency and Renewable Energy Clearinghouse (EREC)

NCI, 8260 Greensboro Dr., Suite 400
Mclean VA 22102
Phone: (703) 287-8385
Fax: (703) 893-0400
or
Phone: $1-800-$ DOE-EREC

Table 4G

## U.S. Department of Energy Document Reference

| Publishing Organization | Title |  |
| :--- | :--- | :--- |
| U.S. Department of Energy, OEERE | International Performance Measure- | NR 437.04 (2) (a) 5. |
|  | ment and Verification Protocol, |  |
|  | Volume 1 - Concepts and Options |  |
|  | for Determining Energy Savings, |  |
|  | January 2001 |  |
| History: Cr. Register, February, 1995, No. 470, eff. 3-1-95; am. (1), Register, December, 1996, No. 492, eff. 1-1-97; am. (2), cr. (4), Register, November, 1999, No. 527, |  |  |
| eff. 12-1-99; CR 00-160: am. (intro.), cr. (5), Register August 2001 No. 548, eff. 9-1-01; CR 002-012: am. (intro.), (4) and (a) and (b) of Table 4, cr. (6) and Table 4F, (7) |  |  |
| and Table 4G Register October 2002 No. 562, eff. 11-1-02. |  |  |

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 April 1, 2002. 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)
100 Barr Harbor Drive
W Conshohocken PA 19428-2959
(610) 832-9500
or from:
UMI
300 North Zeeb Road
PO Box 1346
Ann Arbor MI 48106-1346

Table 5
ASTM Standard References

|  | Standard Number | Standard Title | Incorporated by Reference For |
| :---: | :---: | :---: | :---: |
| (1) | ASTM C136-01 | Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates | NR 415.02 (9) |
| (2) | ASTM D97-02 | Standard Test Methods for Pour Point of Petroleum Products | NR 420.02 (41) |
| (3) | ASTM D129-00 | Standard Test Method for Sulfur in Petroleum Products (General Bomb Method) | 40 CFR part 60 Appendix A, <br> Method 19 <br> 40 CFR part 75 Appendices A and D NR 439.08 (2) (b) |
| (4) | ASTM D240-02 | Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter | 40 CFR part 60 Appendix A, Method 19 <br> 40 CFR part 75 <br> Appendices A, D, E and F <br> NR 400.02 (79) <br> NR 439.08 (2) (c) |
| (5) | ASTM D287-92 (2000) | Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method) | 40 CFR part 75 Appendix D |
| (6) | ASTM D323-99a | Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method) | NR 420.02 (31) |
| (7) | ASTM D388-99e1 | Standard Classification of Coals by Rank | 40 CFR part 75 Appendix F <br> NR 400.02 (40) |
| (8) | ASTM D396-02 | Standard Specification for Fuel Oils | NR 400.02 (70) <br> NR 400.02 (135) <br> NR 420.03 (1) (a) |
| (9) | ASTM D523-89 (1999) | Standard Test Method for Specular Gloss | ANSI/AHA A135.5-1988 NR 422.02 (49m) |
| (10) | ASTM D737-96 | Standard Test Method for Air Permeability of Textile Fabrics | NR 447.15 (1) (a) 1. |

Table 5 (Continued)
ASTM Standard References

|  | Standard Number |  | Standard Title |
| :--- | :--- | :--- | :--- |
| (12) | ASTM D968-93 (2001) | Standard Test Methods for Abrasion Resistance of <br> Organic Coatings by Falling Abrasive | ANSI/AHA A135.5-1988 |
| (13) | ASTM D975-02 | Standard Specification for Diesel Fuel Oils |  |
|  |  |  | NR 409.02 (34) |
| (14) | ASTM D1037-99 | Standard Test Methods for Evaluating Properties of | ANSI/AHA A135.5-1988 |
|  |  | Wood-Base Fiber and Particle Panel Materials |  |

## Table 5 (Continued)

ASTM Standard References

|  | Standard Number | Standard Title | Incorporated by Reference For |
| :---: | :---: | :---: | :---: |
| (26) | ASTM D1826-94 (1998) | Standard Test Method for Calorific Value of Gases in Natural Gas Range by Continuous Recording Calorimeter | 40 CFR part 60 Appendix A, <br> Method 19 <br> 40 CFR part 75 Appendices E and F <br> NR 400.02 (79) |
| (27) | ASTM D1945-96(2001) | Standard Test Method for Analysis of Natural Gas by Gas Chromatography | 40 CFR part 75 Appendices F and G |
| (28) | ASTM D1946-90 (2000) | Standard Practice for Analysis of Reformed Gas by Gas Chromatography | 40 CFR part 75 Appendices F and G NR 460.10 (2) (f) 1. a. |
| (30) | ASTM D2013-01 | Standard Method of Preparing Coal Samples for Analysis | 40 CFR part 60 Appendix A, Method 19 <br> 40 CFR part 75 Appendix F NR 439.08 (1) (b) |
| (31) | ASTM D2015-96 | Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter | 40 CFR part 60 Appendix A, <br> Method 19 <br> 40 CFR part 75 <br> Appendices A, D, E and F |
| (32) | ASTM D2197-98 (2002) | Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion | ANSI/AHA A135.5-1988 |
| (33) | ASTM D2234-02 | Standard Practice for Collection of a Gross Sample of Coal | 40 CFR part 60 Appendix A, Method 19 <br> 40 CFR part 75 Appendix F NR 439.08 (1) (a) <br> NR 439.085 (2) (a) 1. <br> NR 439.085 (2) (b) 1. <br> NR 439.085 (2) (c) 1. |
| (34) | ASTM D2369-01e1 | Standard Test Method for Volatile Content of Coatings | 40 CFR part 60 Appendix A, Method 24, par. 6.2 |
| Note: A | TM D2382 was discontinued in 19 | replaced by ASTM D4809. |  |
| (36) | ASTM D2486-00 | Standard Test Method for Scrub Resistance of Wall Paints | ANSI/AHA A135.5-1988 |
| (37) | ASTM D2502-92 (1996) | 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 (1997) | Standard Test Method for Relative Molecular Mass <br> (Molecular Weight) of Hydrocarbons by <br> Thermoelectric Measurement of Vapor Pressure | 40 CFR part 75 Appendix G |
| (39) | ASTM D2622-98 | Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry | 40 CFR part 75 Appendices A and D |
| (39m) | ASTM D2879-97 | Standard Test Method for Vapor <br> Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope | NR 422.142 (5) (d) |
| (40) | ASTM D2880-00 | Standard Specification for Gas Turbine Fuel Oils | NR 420.03 (1) (a) |
| (41) | ASTM D2986-95a (1999) | Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Dioctyl Phthalate) Smoke Test | 40 CFR part 60 Appendix A: <br> Method 5, par. 7.1.1 <br> Method 12, par. 7.1.1 <br> Method 13A, par. 7.1.1.2 |
| (41m) | ASTM D3172-89 (2002) | Standard Practice for Proximate Analysis of Coal and Coke | NR 439.098 (1) (b) |
| (42) | ASTM D3173-00 | Standard Test Method for Moisture in the Analysis Sample of Coal and Coke | 40 CFR part 60 Appendix A, <br> Method 19 <br> NR 439.08 (1) (f) |

## Table 5 (Continued)

ASTM Standard References

|  | Standard Number | Standard Title | Incorporated by Reference For |
| :---: | :---: | :---: | :---: |
| (43) | ASTM D3174-00 | 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 (2002) | Standard Practice for Ultimate Analysis of Coal and Coke | 40 CFR part 75 Appendices A and F <br> NR 439.08 (1) (g) <br> NR 439.098 (1) (a) |
| (45) | ASTM D3177-89 (2002) | 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 (1997) | Standard Test Methods for Carbon and Hydrogen in the Analysis Sample of Coal and Coke | 40 CFR part 75 Appendix G |
| (47) | ASTM D3238-95 (2000) | Standard Test Method for Calculation of Carbon Distribution and Structural Group Analysis of Petroleum Oils by the $\mathrm{n}-\mathrm{d}-\mathrm{M}$ Method | 40 CFR part 75 Appendix G |
| (48) | ASTM D3792-99 | 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. 6.3 |
| (49) | ASTM D4017-02 | Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method | 40 CFR part 60 Appendix A, Method 24, par. 6.4 |
| (50) | ASTM D4052-96 (2002) | Standard Test Method for Density and Relative Density of Liquids by Digital Density Meter | 40 CFR part 75 Appendix D |
| (51) | ASTM D4057-95 (2000) | Standard Practice for Manual Sampling of Petroleum and Petroleum Products | 40 CFR part 75 Appendix D NR 439.08 (2) (a) |
| (52) | ASTM D4177-95 (2000) | Standard Practice for Automatic Sampling of Petroleum and Petroleum Products | 40 CFR part 75 Appendix D NR 439.08 (2) (a) |
| (53) | ASTM D4239-02 | 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 D4294-02 | Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry | 40 CFR part 75 Appendices A and D NR 439.08 (2) (b) |
| (55) | ASTM D4809-00 | Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method) | 40 CFR part 75 Appendices D, E and $F$ <br> NR 460.10 (2) (f) 2. |
| (55g) | ASTM D5865-02 | Standard Test Method for Gross Calorific Value of Coal and Coke | $\begin{aligned} & \text { NR } 400.02 \text { (79) } \\ & \text { NR } 439.08 \text { (1) (d) } \end{aligned}$ |
| (56) | ASTM E84-01 | Standard Test Method for Surface Burning Characteristics of Building Materials | ANSI/AHA A135.5-1988 |
| (57) | ASTM G23-96 | 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; am. (1), (3), (7), (8), (15), (39), (51), (54), cr. (12m), (19), Register, April, 1995, No. 472, eff. 5-1-95; cr. (39m), Register, June, 1995, No. 474, eff. 7-1-95; am. (12), (17), (23), (24), (26), (29) to (31), (34), (40), (43) to (46), (53), (55) and (56), r. (11), Register, January, 1997, No. 493, eff. 2-1-97; am. (intro.), (28) and (35), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (1) to (10), (13) to (16), (18), (19), (21), (22), (24), (25) to (29), (31), (32), (33), (34), (36), (37), (39) to (42), (44), (47) to (52), (54), r. (12m), (35), renum. and am. (55) and (56) to be (56) and (57) and cr. (41m) and (55), Register, November, 1999, No. 527, eff. 12-1-99; am. (9), cr. (25m), Register, January, 2001, No. 541, eff. 2-1-01; CR 00-175: am. (intro.) and Table 5 Register March 2002 No. 555, eff. 4-1-02; CR 02-146: am. (1), (2), (4), (6) to (8), (12), (13), (21), (25), (25m), (27) to (34), (40), (41m), (44), (45), (49) to (51), (53), (54) and (55g) Register October 2003 No. 574, eff. 11-1-03. |  |  |  |

NR 484.11 Other private organizations. The following materials from other private organizations listed in the first column of Tables 6 A to 6 K 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 6 A to 6 K . A test method is also incorporated for 40 CFR 63.457 as in effect on April 1, 2002. Since that CFR section is incorporated by reference in s. NR 484.03 (6), the test method listed in this section which is incorporated by reference for it is hereby also incorporated by reference and made part of this chapter and chs. NR 400 to 439 and 445 to 499.

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 from the American architectural manufacturers association (AAMA).

Note: Copies may be purchased for personal use from: American Architectural Manufacturers Association 1827 Walden Office Square Suite 104 Schaumburg IL 60173-4628

Table 6A
AAMA Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| AAMA 2604-98 | Voluntary Specification, Performance Requirements <br> and Test Procedures for High Performance Organic <br> Coatings On Aluminum Extrusions and Panels | NR 422.02 (42) |

(2) 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 6B
ACGIH Document References

|  | Document Number | Title | Incorporated by Reference For |
| :---: | :---: | :---: | :---: |
| (a) | ISBN:0-936712-72-4 | Threshold Limit Values and Biological Exposure Indexes for 1987-1988 | NR 445.04 (1) (a) 1. <br> NR 445.04 (1) (a) 2. <br> NR 445.04 (1) (b) <br> NR 445.04 (2) (a) <br> NR 445.04 (2) (b) <br> NR 445.04 (3) (c) 6. <br> NR 445.05 (1) (a) 1. <br> NR 445.05 (1) (a) 2. <br> NR 445.05 (1) (b) <br> NR 445.05 (2) (a) <br> NR 445.05 (2) (b) <br> NR 445.05 (3) (c) 7. |
| (b) | ISBN:0-936712-86-4 | 1990-1991 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indexes | NR 445.04 (4) (a) 1. <br> NR 445.04 (4) (a) 2. <br> NR 445.04 (4) (b) <br> NR 445.04 (4r) (b) 4. <br> NR 445.05 (4) (a) 1. <br> NR 445.05 (4) (a) 2. <br> NR 445.05 (4) (b) <br> NR 445.05 (4r) (b) 4. <br> NR 445.06 (4) |
| (d) |  | Industrial Ventilation: A Manual of Recommended Practice, 20th ed., 1988 | NR 421.04 (3) (c) 1. |

(3) 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 6C
AGA Laboratories Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| Standard Z21.6 - 1973 with addenda: | American National Standard for Domestic | NR 415.07 (1) (b) 2. |
| Z21.6a - 1975, Z21.6b - 1978 | Gas-Fired Incinerators | NR 415.07 (2) (a) 4. |

(4) The following are documents from the American hard- board association (AHA).

Note: Copies may be purchased for personal use from:
American Hardboard Association
1210 W Northwest Highway
Palatine IL 60067
Table 6D
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 Hardboard Paneling | NR 422.02 (13) |

(5) The following is a document from the American petro-
leum institute (API).
Note: Copies may be purchased for personal use from:
American Petroleum Institute
1220 L Street NW
Washington DC 20005
Table 6E
API Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| Publication 2517 | Evaporative Loss from External Floating Roof | NR 420.02 (33) |
|  | Tanks, 3rd edition, February 1989 | NR 420.03 (3) (c) |

(6) The following is a document from the American society of mechanical engineers (ASME):

Note: Copies may be purchased for personal use from:
The American Society of Mechanical Engineers
22 Law Drive
Fairfield NJ 07004
Table 6F
ASME Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :---: | :---: |
| PTC 4.2-1969 (1997) | Test Code for Coal Pulverizers | NR 439.098 (1) (c) |

(7) The following is a document from The Business and Institutional Furniture Manufacturer's Association (BIFMA).

Note: Copies may be purchased for personal use from:
BIFMA International
2680 Horizon Drive SE, Suite A-1
Grand Rapids MI 49546-7500
E-mail: email@bifma.org
Phone: (616) 285-3963
Fax: (616) 285-3765
Table 6G
BIFMA Document Reference

| Document Number |  | Title |
| :---: | :--- | :---: |
| BIFMA X5.7-1991 | Voluntary Upholstered Furniture Flammability | NR 465.04 (1) (b) 1. |
|  | Standard for Non-residential, Non-live-in Occu- |  |
|  | pancies |  |

(8) The following is a document from the international organization for standardization (ISO):

Note: Copies may be purchased for personal use from
American National Standards Institute
11 West 42nd Street
13th floor
New York NY 10036
Table 6H
ISO Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| ISO 9931 (1991) | Coal - Sampling of Pulverized Coal Conveyed by <br> Gases in Direct Fired Coal Systems | NR 439.098 (1) (c) |

(9) The following is a document from the National Council of the Paper Industry for Air and Stream Improvement, Inc. (NCASI):

Note: Copies may be obtained for personal use from:
National Council of the Paper Industry for Air and Stream Improvement, Inc.
PO Box 13318
Research Triangle Park NC 27709-3318
http://www.ncasi.org
(919) 558-1987

Table 6 I
NCASI Document Reference

| Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- |
| NCASI Method | Methanol in Process Liquids by GC/FID, | 40 CFR 63.457(c)(3)(ii) |
| DI/MEOH-94.02 | August 1998, Methods Manual |  |

(10) The following are documents from the Upholstered Furniture Action Council (UFAC).

Note: Copies may be purchased for personal use from
Upholstered Furniture Action Council
Box 2436
High Point, NC 27261
Phone: (336) 885-5065
Fax: (336) 885-5072
Table 6J
UFAC Document Reference

|  | Document Number | Title | Incorporated by Reference For |
| :--- | :--- | :--- | :--- |
| (a) | DMTM--1990 | Decking Materials Test Method--1990 | NR 465.04 (1) (b) 1. |
| (b) | WCTM--1990 | Welt Cord Test Method--1990 | NR 465.04 (1) (b) 1. |
| (c) | IFTM--1990 | Interior Fabrics Test Method--1990 | NR 465.04 (1) (b) 1. |
| (d) | F/PCTM--1990, PT A | Filling/Padding Component Test Method--1990 <br> Part A - For Slab or Garnetted Materials | NR 465.04 (1) (b) 1. |
| (e) | F/PCTM--1990, PT B | Filling/Padding Component Test Method--1990 <br> Part B - For Fibrous or Particulate Materials | NR 465.04 (1) (b) 1. |
| (f) | PTM--1990 | Barrier Test Method--1990 | NR 465.04 (1) (b) 1. |
| (g) | FCTM--1990 | Fabric Classification Test Method--1990 | NR 465.04 (1) (b) 1. |
| (h) | DTTM--1993 | Standard Test Methods for Decorative Trims, <br> Edging, and Brush Fringes--1993 | NR 465.04 (1) (b) 1. |

(11) The following documents are from the World Resources Institute and World Business Council for Sustainable Development.

Note: Copies of the document listed in par. (a) may be downloaded for personal use from the following internet address: http://ghgprotocol.org/standard/ghg.pdf Printed copies may be purchased from:
World Resources Institute Publications
PO Box 4852
Hampden Station
Baltimore MD 21211

Phone: 1-800-822-0504
Fax: (410) 516-6998
Note: Copies of the software documents listed in par. (b) may be downloaded for personal use from the following internet address: http://ghgprotocol.org/standard/ tools.htm

To obtain the software by mail contact:
WRI
10 G Street NE
Washington DC 20002
Phone: (202) 729-7600
Fax: (202) 729-7637

## Table 6K

## WRI/WBCSD Document Reference

| Document Number | Title | Incorporated by Reference For |
| :---: | :---: | :---: |
| (a) ISBN 2-940240-18-3 | The Greenhouse Gas Protocol - a corporate accounting and reporting standard, first edition, September 2001 | NR 437.04 (2) (a) 20. |
| (b) N/A | GHG Calculation Tools | NR 437.04 (2) (a) 21. |

