

Chapter NR 484

INCORPORATION BY REFERENCE

NR 484.01	Applicability; purpose	NR 484.06	Code of federal regulations and other materials in ch. NR 439
NR 484.02	Definitions	NR 484.08	Code of federal regulations in chs. NR 445 to 483
NR 484.03	Code of federal regulations and other materials in chs. NR 400 to 404	NR 484.09	Other materials in chs. NR 445 to 483
NR 484.04	Code of federal regulations and other materials in chs. NR 405 to 418		
NR 484.05	Code of federal regulations and other materials in chs. NR 419 to 438		

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. 400 to 499.

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.

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 and other materials in chs. NR 400 to 404. The federal regulations or appendix materials in effect on July 1, 1990 and other materials listed in this section are incorporated by reference for the corresponding sections of chs. NR 400 to 404. 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 the superintendent of documents, U.S. government printing office, Washington, DC 20402, or from the organization listed in the applicable subsection.

(1) Appendices A to K of 40 CFR part 50 for ss. NR 404.02 (4m), (8) and (11), 404.04 (5) and (8) (b) 3 and 404.06 (2).

(2) 40 CFR part 53 for s. NR 404.02 (4m).

(3) Appendix A of 40 CFR part 60 for s. NR 400.02 (77).

(4) Fundamentals of Smoke Abatement, December, 1950, Ringlemann Chart, Information Circular 7588, U.S. bureau of mines, for s. NR 400.02 (80m). Copies may be obtained from the U.S. department of interior, Washington, DC 20240.

(5) Standard Industrial Classification Manual, 1987, for s. NR 400.02 (91). Copies may be obtained from the National Technical Information Service, 5285 Port Royal Road, Springfield VA 22161 using order no. PB 87-100012.

(6) The following materials may be purchased from the American Society for Testing and Materials, 1916 Race Street, Philadelphia PA 19103:

(a) ASTM D240-87, Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter, for s. NR 400.02 (43e).

(b) ASTM D396-89a, Standard Specification for Fuel Oils, for s. NR 400.02 (80).

(c) ASTM D1826-88, Standard Test Method for Calorific Value of Gases in Natural Gas Range by Continuous Recording Calorimeter, for s. NR 400.02 (43e).

(d) ASTM D2015-91, Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter, for s. NR 400.02 (43e).

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.

Register, December, 1993, No. 456

NR 484.03 Code of federal regulations. The federal regulations in effect on March 1, 2006 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.

Table 1

CFR References

CFR Reference	Title	Incorporated by Reference For
(5) 40 CFR part 53	Ambient Air Monitoring Reference and Equivalent Methods	NR 404.02 (4e) and (4m) 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; CR 05-040: am. (intro.) Register February 2006 No. 602, eff. 3-1-06; CR 07-036: cr. (7) Register November 2008 No. 635, eff. 12-1-08; CR 07-082: am. (5) Register September 2009 No. 645, eff. 10-1-09.

Chapter NR 484

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 484.03 Code of federal regulations. The federal regulations in effect on March 1, 2006 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.

Table 1

CFR References

CFR Reference	Title	Incorporated by Reference For
(5) 40 CFR part 53	Ambient Air Monitoring Reference and Equivalent Methods	NR 404.02 (4e) and (4m) 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; CR 05–040: am. (intro.) Register February 2006 No. 602, eff. 3–1–06; CR 07–036: cr. (7) Register November 2008 No. 635, eff. 12–1–08; **CR 07–082: am. (5) Register September 2009 No. 645, eff. 10–1–09.**

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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 484.04 Code of federal regulations appendices.

The appendices to federal regulations in effect on August 1, 2016 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 and legislative reference bureau, 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 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) Register August 2001 No. 548
(4)	40 CFR part 50 Appendix H	Interpretation of the National Ambient Air Quality Standards for Ozone	NR 404.04 (5) Register August 2001 No. 548
(4m)	40 CFR part 50 Appendix I	Interpretation of the 8-hour Primary and Secondary National Ambient Air Quality Standards for Ozone	NR 404.04 (5) (b)
(5)	40 CFR part 50 Appendix J	Reference Method for the Determination of Particulate Matter as PM₁₀ in the Atmosphere	NR 400.02 (123s)
(6)	40 CFR part 50 Appendix K	Interpretation of the National Ambient Air Quality Standards for Particulate Matter	NR 404.04 (8) (c)
(6g)	40 CFR part 50 Appendix L	Reference Method for the Determination of Particulate Matter as PM _{2.5} in the Atmosphere	NR 400.02 (123e) NR 404.04 (9)
(6r)	40 CFR part 50 Appendix N	Interpretation of the National Ambient Air Quality Standards for PM _{2.5}	NR 404.04 (9)
(6t)	40 CFR part 50 Appendix P	Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone	NR 404.04 (5) (c)
(6v)	40 CFR part 50 Appendix R	Interpretation of the National Ambient Air Quality Standards for Lead	NR 404.04 (7) (b)
(7)	40 CFR part 51 Subpart S Appendix B	Test Procedures	NR 458.02 (18) Register August 2001 No. 548
(7m)	40 CFR part 50 Appendix T	Interpretation of the National Ambient Air Quality Standards for Sulfur Dioxide	NR 404.04 (2) (a)
(7s)	40 CFR part 50 Appendix U	Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone	NR 404.04 (5) (d)
(8)	40 CFR part 51 Subpart S, Appendix E	Transient Test Driving Cycle	NR 485.02 (22)
(9)	40 CFR part 51 Appendix M	Recommended Test Methods for State Implementation Plans	NR 439 NR 465.09 (4) (b) 1. and 2. NR 466.09 (5) Register August 2001 No. 548
(10)	40 CFR part 51 Appendix S, Section IV	Sources That Would Locate in a Designated Nonattainment Area	NR 405.11 (1) (e)
(11)	40 CFR part 51 Appendix W	Guideline on Air Quality Models (Revised)	NR 405.10 NR 489.09 (3) (intro.)
(11m)	40 CFR part 51 Appendix Y	Guidelines for BART Determinations Under the Regional Haze Rule	NR 433.03 (1) NR 433.04 (2) NR 433.05 (1) (e)

Table 2 (Continued)
CFR Appendix References

	CFR Appendix Referenced	Title	Incorporated by Reference For
(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 Appendix A	Test Methods	NR 400.02 (131) NR 419.045 (5) (a) and (b) NR 423.037 (9) (c) 1r. NR 428.25 (1) (b) 4. NR 439 NR 460 to 469
(14)	40 CFR part 60 Appendix A, Method 3	Gas Analysis for the Determination of Dry Molecular Weight	NR 449.09 (6) (a) 3.
(15)	40 CFR part 60 Appendix A, Method 5	Determination of Particulate Emissions from Stationary Sources	40 CFR part 61 Appendix B, Method 101 NR 462 Table 5
(15m)	40 CFR part 60 Appendix A, Method 7, 7A, 7B, 7C, 7D and 7E	Determination of nitrogen oxide emissions from stationary sources	NR 428.23 (1) (b) 3. a. NR 428.08 (2) (g) 4. a.
(16)	40 CFR part 60 Appendix A, Method 18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography	NR 400.02 (77) NR 419.045 (2) (a) 2. NR 422.142 (5) (a) NR 422.143 (7) (a) NR 469.01 (1) (a)
(16m)	40 CFR part 60 Appendix A, Method 19	Determination of sulfur dioxide removal efficiency and particulate, sulfur dioxide and nitrogen oxides emission rates	NR 428.23 (1) (b) 2. d., 5. a. and b. and 6. b.
(17)	40 CFR part 60 Appendix A, Method 21	Determination of Volatile Organic Compounds Leaks	NR 419.045 (5) (e) NR 420.02 (39m) NR 421.02 (21) NR 421.05 (2) (e) NR 421.06 (2) (e)
(18)	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) Register August 2001 No. 548
(19)	40 CFR part 60 Appendix A, Method 25	Determination of Total Gaseous Nonmethane Organic Emissions as Carbon	NR 422.142 (5) (a) NR 422.143 (7) (a)
(20)	40 CFR part 60 Appendix A, Method 25A	Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer	NR 422.142 (5) (a) NR 422.143 (7) (a)
(20e)	40 CFR part 60 Appendix A, Method 25D	Determination of Volatile Organic Concentration of Waste Samples	NR 419.045 (5) (f) 6.
(20m)	40 CFR part 60 Appendix A, Method 29	Determination of Metals Emissions from Stationary Sources	NR 446.04 (1) (c) 1. a. NR 446.08 (1) (c) 1. NR 462 Table 5
(20s)	40 CFR part 60 Appendix A, Method 30A	Determination of Total Vapor Phase Mercury Emissions from Stationary Sources	NR 446.04 (1) (c) 1. a. NR 446.08 (1) (c) 1.
(20t)	40 CFR part 60 Appendix A, Method 30B	Determination of Total Vapor Phase Mercury Emissions from Coal-Fired Combustion Sources Using Carbon Sorbent Traps	NR 446.04 (1) (c) 1. a. NR 446.08 (1) (c) 1.
(21)	40 CFR part 60 Appendix B	Performance Specifications	NR 405 NR 408 NR 428 NR 439 NR 460 to 469

Table 2 (Continued)
CFR Appendix References

	CFR Appendix Referenced	Title	Incorporated by Reference For
(21m)	40 CFR part 60 Appendix F	Quality Assurance Procedures	NR 428.23 (1) (b) 2. c. NR 466.10 (2) NR 466.24 (2) (d) 1. b.
(21s)	40 CFR part 61 Subpart M, Appendix A	Interpretive Rule Governing Roof Removal Operations	NR 447.08 (1) (am)
(22)	40 CFR part 61 Appendix A	National Emission Standards for Hazardous Air Pollutants: Compliance Status Information	NR 447.16 (2)
(23)	40 CFR part 61 Appendix B	Test Methods	NR 400.02 (131) NR 439 NR 446 to NR 469
(24)	40 CFR part 63, Subpart KK, Appendix A	Data Quality Objective and Lower Confidence Limit Approaches for Alternative Capture Efficiency Protocols and Test Methods	NR 439.06 (3) (am) NR 465.09 (4) (b) 3. NR 466.09 (6) Register August 2001 No. 548
(24g)	40 CFR part 63, Subpart MMMM, Appendix A	Alternative Capture Efficiency and Destruction Efficiency Measurement and Monitoring Procedures for Magnet Wire Coating Operations	NR 465 subch. V
(24m)	40 CFR part 63, Subpart DDDDD, Appendix A	Methodology and Criteria for Demonstrating Eligibility for the Health-Based Compliance Alternatives	NR 462
(24r)	40 CFR part 63, Subpart PPPP, Appendix A	Determination of Weight Volatile Matter Content and Weight Solids Content of Reactive Adhesives	NR 465 subchs. IV and V
(25)	40 CFR part 63 Appendix A	Test Methods	NR 400.02 (131) NR 419.045 (5) (f) 4. NR 439 NR 460 to 469
(25g)	40 CFR part 63 Appendix C	Determination of the Fraction Biodegraded (E_{bio}) in a Biological Treatment Unit	40 CFR 63.457 (1) NR 464.09 (10) (b)
(25r)	40 CFR part 63 Appendix E	Monitoring Procedure for Nonthoroughly Mixed Open Biological Treatment Systems at Kraft Pulp Mills under Unsafe Sampling Conditions	NR 464.09 (16) (c)
(26)	40 CFR part 72 Appendix D	Calculation of Potential Electric Output Capacity	NR 409.02 (57)
(26m)	40 CFR part 75 Appendix A	Specifications and Test Procedures	NR 446.07 (3) NR 446.08 (1) (a)
(b)	40 CFR part 75, Appendix B	Quality Assurance and Quality Control Procedures	NR 446.07 (3) NR 446.08 (1) (a)
(bm)	40 CFR part 75, Appendix E	Optional NO _x Emissions Estimation Protocol for Gas-Fired Peaking Units and Oil-Fired Peaking Units	NR 428.23 (1) (b) 2. c.
(c)	40 CFR part 75, Appendix C	Missing Data Estimation Procedures	NR 446.07 (3) NR 446.08 (1) (a)
(d)	40 CFR part 75, Appendix F	Conversion Procedures	NR 428.23 (1) (b) 5. c. and 6. b. and c. NR 446.04 (3) NR 446.09 (1) (a) Register July 2007 No. 619

Table 2 (Continued)
CFR Appendix References

CFR Appendix Referenced	Title	Incorporated by Reference For
(27) 40 CFR part 75 Appendices A to I		NR 428 NR 428.23 (1) (b) 1. NR 439 Register July 2007 No. 619
(27m) 40 CFR part 82, Subpart A, Appendices A and B		NR 405 NR 408
(27s) 40 CFR part 136, Appen- dix A	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater	NR 419.045 (5) (f) 3.
(28) 40 CFR part 763 Subpart E, Appendix E, Section 1	Polarized Light Microscopy	NR 447.02 (1) NR 447.02 (16) NR 447.02 (27) NR 447.02 (36) NR 447.09 (1) Register August 2001 No. 548

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), m. (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; CR 03-037: am. Table 2 (9) and (24) Register March 2004 No. 579, eff. 4-1-04; CR 02-097: am. (23), Register June 2004 No. 582, eff. 7-1-04; CR 01-081: cr. (20m) and (26m) Register September 2004 No. 585, eff. 10-1-04; CR 03-066: am. (2) and (4), cr. (4m) Register May 2005 No. 593, eff. 6-1-05; CR 05-040: am. (intro.), (9) and (24), cr. (24g) and (24r) Register February 2006 No. 602, eff. 3-1-06; CR 05-116: am. (15), (18) and (20m), cr. (24m) Register November 2006 No. 611, eff. 12-1-06; CR 03-118: am. (21), cr. (27m), Register June 2007 No. 618, eff. 7-1-07; CR 07-016: am. (13), (21m), (26m) (d) and (27), cr. (15m), (16m) and (26m) (bm) Register July 2007 No. 619, eff. 8-1-07; CR 07-045: am. (9), (21m) and (24) Register April 2008 No. 628, eff. 5-1-08; CR 07-017: cr. (11m) Register June 2008 No. 630, eff. 7-1-08; CR 07-036: am. (20m), (26m) (a) to (d) and (27), cr. (20s) and (20t) Register November 2008 No. 635, eff. 12-1-08; CR 07-105: am. (16) Register December 2008 No. 636, eff. 1-1-09; CR 08-102: am. (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; CR 08-104: am. (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; corrections in (16), (19) and (20) made under s. 13.92 (4) (b) 7., Stats., Register July 2009 No. 643; CR 07-082: am. (6), cr. (6g) and (6r) Register September 2009 No. 645, eff. 10-1-09; CR 09-088: am. (3), cr. (6t) and (6v) Register May 2010 No. 653, eff. 6-1-10; CR 10-049: r. (7) Register November 2010 No. 659, 12-1-10; CR 10-050: am. (5), (6g) Register November 2010 No. 659, eff. 12-1-10; CR 07-082: r. (3) Register November 2011 No. 671, eff. 12-1-11; CR 11-005: am. (intro.), (13), (17), (19), (20) in Table 2, cr. (20e), (27s) in Table 2 Register January 2012 No. 673, eff. 2-1-12; CR 15-033: am. (intro.), cr. (7), (7m) Register July 2016 No. 727, eff. 8-1-16; correction in (intro.) made under s. 35.17, Stats., Register August 2016, No. 728; CR 16-041: am. (6g), (6r) in Table 2 Register December 2017 No. 744, eff. 1-1-18; CR 21-022: cr. (7s) in Table 2 Register February 2022 No. 794, eff. 3-1-22; CR 23-017: am. (15m) in Table 2 Register March 2024 No. 819, eff. 4-1-24.

NR 484.05 Code of federal regulations and other materials in chs. NR 419 to 438. The federal regulations or appendix materials in effect on July 1, 1990 and other materials listed in this section are incorporated by reference for the corresponding sections of chs. NR 419 to 438. 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 the superintendent of documents, U.S. government printing office, Washington, DC 20402, or from the organization listed in the applicable subsection.

(1) Test Method 21 in Appendix A of 40 CFR part 60 is incorporated by reference for ss. NR 420.02 (39m), 421.02 (12m), 421.05 (2) (e) and 421.06 (2) (e).

(1m) The U.S. environmental protection agency's "Emissions Trading Policy Statement; General Principles for Creation, Banking and Use of Emission Reduction Credits", 51 FR 43814, December 4, 1986 for s. NR 425.05 (1) (b) 2. Copies of this document may be obtained for personal use from the U.S. Environmental Protection Agency, Office of Air Qual-

ity Planning and Standards, MD-15, Research Triangle Park, NC 27711.

(3) The following materials may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield VA 22161:

(a) Recommended Industrial Ventilation Guidelines, U.S. department of health, education and welfare, national institute of occupational safety and health, 1976, NTIS order no. PB-266 227, for s. NR 421.04 (3) (c) 2.

(b) Standard Industrial Classification Manual, 1987, NTIS order no. PB 87-100012, for ss. NR 421.02 (2e) and (11e), 422.15(1) (intro.) and 438.02 (1).

(c) Compilation of Air Pollutant Emission Factors, USEPA-OAQPS, AP-42, 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, for s. NR 438.03 (5).

(d) Toxic Air Pollutant Emission Factors for Selected Air Toxic Compounds and Sources, USEPA-OAQPS, EPA-450/2-90-066a, October, 1990, for s. NR 438.03 (5).

(e) AIRS Facility Subsystem Source Class Codes and Emission Factors, EPA 450/4-90-003, March, 1990, for s. NR 438.02 (2).

(4) Industrial Ventilation: A Manual of Recommended Practice, 20th ed., American Conference of Governmental Industrial Hygienists, 1988, for s. NR 421.04 (3) (c) 1. Copies may be obtained from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, 6500 Glenway Ave., Building D-7, Cincinnati, OH 45211.

(5) The Architectural Aluminum Manufacturer's Association publication number AAMA 605.2-1985 is incorporated by reference for s. NR 422.02 (21m). The publication may be purchased for personal use from the Architectural Aluminum Manufacturer's Association, 2700 River Road, Suite 118, Des Plaines, IL 60018.

(6) American Petroleum Institute Publication 2517, Evaporative Loss from External Floating Roof Tanks, 3rd edition, February 1989 for s. NR 420.02 (33) and 420.03 (3) (c). Copies may be obtained from the American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005.

(7) The following materials may be purchased from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103:

(a) ASTM D97-87, Standard Test Methods for Pour Point of Petroleum Oils, for s. NR 420.02 (41).

(b) ASTM D323-89, Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method), for s. NR 420.02 (31).

(c) ASTM D396-89a, Standard Specification for Fuel Oils, for s. NR 420.03 (1) (a).

(d) ASTM D975-89a, Standard Specification for Diesel Fuel Oils, for s. NR 420.03 (1) (a).

(e) ASTM D2880-89, Standard Specification for Gas Turbine Fuel Oils, for s. NR 420.03 (1) (a).

(8) The 1990-1991 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, published by the American conference of governmental industrial hygienists (publication ISBN: 0-936712-86-4), is incorporated by reference for s. NR 438.03 (1) (b). This publication may be purchased for personal use from the American Conference of Governmental Industrial Hygienists (ACGIH), 6500 Glenway Avenue, Cincinnati, OH 45211.

(9) ANSI/AHA A135.5-1988, Prefinished Hardboard Paneling, for s. NR 422.02 (7). Copies of this document may be obtained from the American Hardboard Association, 1210 W Northwest Highway, Palatine IL 60067.

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.

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 and legislative reference bureau, Madison, Wisconsin or may be purchased for personal use from:

National Technical Information Service
5285 Port Royal Road
Springfield VA 22161
1–800–553–6847

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) NR 400.02 (86) NR 400.02 (91) NR 400.02 (149) NR 405.02 (8) NR 406.02 (1) NR 407.02 (3) NR 407.02 (4) (intro.) NR 407.05 (4) (b) NR 408.02 (5) NR 410.02 (4) NR 419.045 (1) (a) 3. NR 421.02 (3) NR 421.02 (17) NR 422.02 (112) NR 422.095 (1) NR 422.15 (1) (intro.) NR 437.07 (2) (a) 4. NR 438.02 (1) NR 445.11 (1) (intro.) NR 465.02 (51)
(3) NTIS Order No. PB 93–192664	Metropolitan Areas, 1993	NR 400.02 (53p) Register, December, 1995, No. 480

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; 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; CR 02–097: am. (1), Register June 2004 No. 582, eff. 7–1–04; CR 01–081: am. (9) Register September 2004 No. 585, eff. 10–1–04; CR 04–107: am. (1) Register August 2005 No. 596, eff. 9–1–05; CR 07–104: cr. (17) Register July 2008 No. 631, eff. 8–1–08; CR 07–036: am. (9) Register November 2008 No. 635, eff. 12–1–08; CR 04–023: cr. (10) and (12) Register December 2008 No. 636, eff. 1–1–09; **CR 11–005: am. (1) in Table 3 Register January 2012 No. 673, eff. 2–1–12.**

NR 484.06 Code of federal regulations and other materials in ch. NR 439.

(1) **APPENDIX M OF 40 CFR PART 51.** Appendix M of 40 CFR part 51 and the test methods in this appendix, as in effect on July 1, 1993, are incorporated by reference for ch. NR 439. Copies of this appendix 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 the superintendent of documents, U.S. government printing office, Washington, DC 20402.

(2) **APPENDICES OF 40 CFR PART 60.** Appendices A and B of 40 CFR part 60 and test methods in these appendices, as in effect on July 1, 1993, are incorporated by reference for ch. NR 439. Copies of these appendices 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 the superintendent of documents, U.S. government printing office, Washington, DC 20402.

(3) **APPENDICES OF 40 CFR PART 75.** Appendices A through I of 40 CFR part 75 and test methods in these appendices, as in effect on July 1, 1993, are incorporated by reference for ch. NR 439. Copies of these appendices 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 the superintendent of documents, U.S. government printing office, Washington, DC 20402.

(4) **OTHER MATERIALS.** The materials listed in this subsection are incorporated by reference for the corresponding sections noted. Some of the materials are also incorporated for Appendix A or B of 40 CFR part 60 as in effect on July 1, 1993. Since these Appendices are incorporated by reference in this chapter by sub. (1), materials listed in this subsection which are incorporated by reference for the Appendices are hereby also incorporated by reference and made a part of this chapter and ch. NR 439. 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 one of the

(o) ASTM D3792-79, Standard Test Method for Water Content of Water-Reducible Paints by Direct Injection into a Gas Chromatograph, for 40 CFR part 60, Appendix A, Method 24, par. 2.3.

(p) ASTM D4017-81, Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method, for 40 CFR part 60, Appendix A, Method 24, par. 2.4.

(q) ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, for s. NR 439.08 (2) (a).

(r) ASTM D4177-82, Standard Method for Automatic Sampling of Petroleum and Petroleum Products, for s. NR 439.08 (2) (a).

(s) ASTM D4239-85, Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods, for 40 CFR part 60, Appendix A, Method 19 and for s. NR 439.08 (1) (c).

(t) ASTM D4294-83, Standard Test Method for Sulfur in Petroleum Products by Non-Dispersive X-Ray Fluorescence Spectrometry, for s. NR 439.08 (2) (b).

(u) San Diego Air Pollution Control District Test Procedure TP-91-1, Pressure Decay/Leak Test Procedure, Phase I and Phase II Vapor Recovery Installations, for s. NR 439.06 (3) (i). Copies may be obtained from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or from the San Diego Air Pollution Control District, 9150 Chesapeake Drive, San Diego, CA 92123-1095.

(v) San Diego Air Pollution Control District Test Procedure TP-91-2, Pressure Drop vs. Flow/Liquid Blockage Test Procedure, Phase II Balance System Installations, for s. NR 439.06 (3) (i). Copies may be obtained from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 or from the San Diego Air Pollution Control District, 9150 Chesapeake Drive, San Diego, CA 92123-1095.

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. 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.

NR 484.06 Other government organizations.**(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 parts of FIRE from:

Department of Natural Resources
Bureau of Air Management
Box 7921
101 South Webster Street
Madison WI 53707–7921

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

Emission Factor And Inventory Group (MD–D205–01)
Office of Air Quality Planning and Standards
U. S. Environmental Protection Agency
Research Triangle Park NC 27711
Phone: (919) 541–1000
Fax: (919) 541–5680

Note: Copies of the document listed in par. (c) may be downloaded from the internet for personal use from <http://www.epa.gov/ttn/emc/cem/tribo.pdf>. Copies of the documents listed in par. (e) may be downloaded from the internet for personal use from <http://www.epa.gov/sw-846/main.htm>.

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

National Technical Information Service
5285 Port Royal Road
Springfield VA 22161

Note: The wastewater treatment model listed in par. (f), along with supporting documentation, may be downloaded for personal use from <http://www.epa.gov/ttnchie1/software/water/index.html>. EPA contact information is also listed at this internet site.

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 6.23	NR 437.04 (2) (a) 22. Register July 2022 No. 799
(b) EPA, EIIP Technical Report Series		
1. EPA-454/R-97-004a	EIIP Volume I, Introduction and Use of EIIP Guidance for Emission Inventory Development, July 1997	NR 437.04 (2) (a) 9.
2. Volume II	Point Sources, May 2002	NR 437.04 (2) (a) 10.

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, June 2001	NR 437.04 (2) (a) 11.
4. Volume IV	Mobile Sources, September 1997	NR 437.04 (2) (a) 12.
5. Volume VI	Quality Assurance Procedures and DARS Software, September 1997	NR 437.04 (2) (a) 13.
6. Volume VII	Data Management Procedures, January 1999	NR 437.04 (2) (a) 14.
7. Volume VIII	Estimating Greenhouse Gas Emissions, October 1999	NR 437.04 (2) (a) 15.
8. Volume IX	Particulate Emissions, September 1999	NR 437.04 (2) (a) 16.
(c) EPA-454/R-98-015, September 1997	Fabric Filter Bag Leak Detection Guidance	NR 462.05 (6) (i) NR 463.23 (3) (b) 4.
(d) EPA-453/R-01-005	National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Plants--Background Information for Proposed Standards	NR 462.01 (4) (k)
(e) EPA, SW-846	Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, September 1986, as amended by Updates I, II, IIA, IIB, III, IIIA, IIIB, IVA, and IVB	NR 419.045 (5) (f) 1. and 2. NR 462 Table 6 NR 463.22 (16)
(f) N/A	WATER9, Version 2.0	NR 419.045 (3) (b) 2. c.
(g) EPA-450/4-91-031	Control of Volatile Organic Compound Emissions from Reactor Processes and Distillation Operations Processes in the Synthetic Organic Chemical Manufacturing Industry	NR 421.07 (1) (a) 1.

~~(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.bhfti.ca.gov/industry/bulletin.shtml>.~~

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

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

Table 4E
State of California Document Reference

Document Number	Title	Incorporated by Reference For
(a) Technical Bulletin 116	Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Upholstered Furniture	NR 465.04 (1) (b) 1.
(b) Technical Bulletin 117	Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture	NR 465.04 (1) (b) 1.
(c) Technical Bulletin 133	Flammability Test Procedure for Seating 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~~

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
Intergovernmental Panel on Climate Change (IPCC)	Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Volumes 1–3	NR 437.04 (2) (a) 4.

(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	Incorporated by Reference For
U.S. Department of Energy, OEERE	International Performance Measurement and Verification Protocol, Volume 1 – Concepts and Options for Determining Energy Savings, January 2001	NR 437.04 (2) (a) 5.

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 02–012: 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; CR 05–116: cr. (4) (c) to (e) of Table 4D Register November 2006 No. 611, eff. 12–1–06; CR 06–110: am. (4) (c) and (e), Register July 2007 No. 619, eff. 8–1–07; CR 11–005: am. (4) (e) in Table 4d, cr. (4) (f), (g) in Table 4D Register January 2012 No. 673, eff. 2–1–12.

NR 484.08 Code of federal regulations in chs. NR 445 to 483. The federal regulations or appendix materials in effect on July 1, 1990 listed in this section are incorporated by reference for the corresponding sections of chs. NR 445 to 483. 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 the superintendent of documents, U.S. government printing office, Washington DC 20402.

(1) 29 CFR s. 1910.145 (d) (4) for ss. NR 447.12 (4) (a) 2, 447.14 (2) (a) 2 and 447.17 (2) (a) 2.

(2) 29 CFR s. 1910.1001 (j) (2) or 1926.58 (k) (2) (iii) for s. NR 447.13 (1) (a) 4.

(3) 29 CFR s. 1926.58, appendix G for s. NR 447.02 (20) Note.

(4) Test Method 3, Appendix A of 40 CFR part 60 for s. NR 449.09 (6) (a) 3.

(5) Test Method 5, Appendix A of 40 CFR part 60 for Test Method 101, Appendix B, 40 CFR part 61.

(6) Appendix B of 40 CFR part 61 for s. NR 445.02 (9m) and chs. NR 446 to 483.

(7) 40 CFR s. 61.07 for s. NR 447.18 (1) Note.

(8) 40 CFR s. 61.10 and Appendix A of 40 CFR part 61 for s. NR 447.16 (2).

(9) Subpart F, appendix A, section 1, of 40 CFR part 763, Polarized Light Microscopy, for ss. NR 447.02 (1), (16), (27) and (36) and 447.09 (1).

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.

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.

Register, October, 1992, No. 442

(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 Raod, 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 D1193-77 (1983), Standard Specification for Reagent Water, for 40 CFR part 61, Appendix B, Method 101, par. 6.1.1.

(c) ASTM D2986-71 (1978), Standard Method for Evaluation of Air Assay Media by the Monodisperse DOP (Dioctyl 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 Physical Agents and Biological Exposure Indices, published by the American conference of governmental industrial hygienists (publication ISBN: 0-936712-86-4), is incorporated by reference for ss. NR 445.04 (4) (a) 1 and 2 and (b), 445.05 (4) (a) 1 and 2 and (b) 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-85, Section 401, 1985, is incorporated by reference for s. NR 447.04 (1) (c).

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.

Chapter NR 484

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 484.10 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, 1998. 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:

Bell & Howell Information and Learning
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 C136-96a	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	NR 415.02 (9)
(2) ASTM D97-96a	Standard Test Methods for Pour Point of Petroleum Products	NR 420.02 (41)
(3) ASTM D129-95	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 (1997)	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 (79) NR 439.08 (2) (c)
(5) ASTM D287-92 (1995)	Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method)	40 CFR part 75 Appendix D
(6) ASTM D323-08	Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)	NR 419.045 (5) (d) NR 420.02 (31)
(7) ASTM D388-98	Standard Classification of Coals by Rank	40 CFR part 75 Appendix F NR 400.02 (40)

Table 5 (Continued)

ASTM Standard References

	Standard Number	Standard Title	Incorporated by Reference For
(8)	ASTM D396-98	Standard Specification for Fuel Oils	NR 400.02 (70) NR 400.02 (135) NR 420.03 (1) (a)
(9)	ASTM D523-89 (1999)	Standard Test Method for Specular Gloss	ANSI/AHA A135.5-2004 NR 422.02 (26), (41s), and (49m) Register May 2022 No. 797
(10)	ASTM D737-96	Standard Test Method for Air Permeability of Textile Fabrics	NR 447.15 (1) (a) 1.
(12)	ASTM D968-93 (2001)	Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive	ANSI/AHA A135.5-2004 Register January 2012 No. 673
(13)	ASTM D975-98a	Standard Specification for Diesel Fuel Oils	NR 409.02 (34) NR 420.03 (1) (a)
(14)	ASTM D1037-96a	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials	ANSI/AHA A135.5-1988
(15)	ASTM D1072-90 (1994)	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 5F, par. 3.1 Method 5H, par. 3.1.3 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 Method 14A, par. 7.1 Method 25D, par. 3.2.2.4 Method 26, par. 3.1.1 Method 26A, par. 3.1.1 Method 29, pars. 4.2.2, 4.4.2 and 4.5.6 40 CFR part 61 Appendix B, Method 101, par. 6.1.1
(17)	ASTM D1217-93	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 (1997)	Standard Guide for Petroleum Measurement Tables	40 CFR part 75 Appendix D
(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 D1308-02	Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes	ANSI A135.5-2004 Register January 2012 No. 673
(22)	ASTM D1475-96	Standard Test Method for Density of Liquid Coatings, Inks, 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 D1480-93 (1997)	Standard Test Method for Density and Relative Density (Specific Gravity) of Viscous Materials by Bingham Pycnometer	40 CFR part 75 Appendix D
(24)	ASTM D1481-93 (1997)	Standard Test Method for Density and Relative Density (Specific Gravity) of Viscous Materials by Lipkin Bicapillary Pycnometer	40 CFR part 75 Appendix D

Table 5 (Continued)
ASTM Standard References

	Standard Number	Standard Title	Incorporated by Reference For
(25)	ASTM D1552-95	Standard Test Method for Sulfur in Petroleum Products (High-Temperature Method)	40 CFR part 75 Appendices A and D NR 439.08 (2) (b)
(25m)	ASTM D1613-96 (1999)	Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products	NR 422.02 (67)
(26)	ASTM D1826-94	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 (79)
(27)	ASTM D1945-96	Standard Test Method for Analysis of Natural Gas by Gas Chromatography	40 CFR part 75 Appendices F and G
(28)	ASTM D1946-90 (1994)	Standard Practice for Analysis of Reformed Gas by Gas Chromatography	40 CFR part 75 Appendices F and G NR 460.10 (2) (f)
(29)	ASTM D1989-96	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 (1994)	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 D2015-96	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 (79) NR 439.08 (1) (d)
(32)	ASTM D2197-98 (2002)	Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion	ANSI/AHA A135.5-2004 Register January 2012 No. 673
(33)	ASTM D2234-98	Standard Practice 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.
(34)	ASTM D2369-98	Standard Test Method for Volatile Content of Coatings	40 CFR part 60 Appendix A, Method 24, par. 2.2
Note: ASTM D2382 was discontinued in 1994, and replaced by ASTM D4809.			
(36)	ASTM D2486-00	Standard Test Method for Scrub Resistance of Wall Paints	ANSI/AHA A135.5-2004 Register January 2012 No. 673
(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 (Molecular Weight) of Hydrocarbons by 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 D2879-10	Standard Test Method for Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope	NR 419.045 (5) (d) NR 422.142 (5) (d) Register January 2012 No. 673

Table 5 (Continued)
ASTM Standard References

Standard Number	Standard Title	Incorporated by Reference For
(40)	ASTM D2880-98	Standard Specification for Gas Turbine Fuel Oils
(41)	ASTM D2986-95a	Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Dioctyl Phthalate) Smoke Test
(41m)	ASTM D3172-89 (1997)	Standard Practice for Proximate Analysis of Coal and Coke
(42)	ASTM D3173-87 (1996)	Standard Test Method for Moisture in the Analysis Sample of Coal and Coke
(43)	ASTM D3174-93	Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal
(44)	ASTM D3176-89 (1997)	Standard Practice for Ultimate Analysis of Coal and Coke
(45)	ASTM D3177-89 (1997)	Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke
(46)	ASTM D3178-89 (1997)	Standard Test Methods for Carbon and Hydrogen in the Analysis Sample of Coal and Coke
(47)	ASTM D3238-95	Standard Test Method for Calculation of Carbon Distribution and Structural Group Analysis of Petroleum Oils by the n-d-M Method
(48)	ASTM D3792-98	Standard Test Method for Water Content of Water-Reducible Paints by Direct Injection into a Gas Chromatograph
(49)	ASTM D4017-96a	Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method
(50)	ASTM D4052-96	Standard Test Method for Density and Relative Density of Liquids by Digital Density Meter
(51)	ASTM D4057-95	Standard Practice for Manual Sampling of Petroleum and Petroleum Products
(52)	ASTM D4177-95	Standard Practice for Automatic Sampling of Petroleum and Petroleum Products
(53)	ASTM D4239-94	Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods
(54)	ASTM D4294-98	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry
(55)	ASTM D4809-95	Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Intermediate Precision Method)
		Standard Test Method for Surface Burning Characteristics of Building Materials
		Standard Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials

Table 5 (Continued)
ASTM Standard References

	Standard Number	Standard Title	Incorporated by Reference For
(40)	ASTM D2880–98	Standard Specification for Gas Turbine Fuel Oils	NR 420.03 (1) (a)
(41)	ASTM D2986–95a	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
(41m)	ASTM D3172–89 (1997)	Standard Practice for Proximate Analysis of Coal and Coke	NR 439.098 (1) (b)
(42)	ASTM D3173–87 (1996)	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 D3174–93	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 (1997)	Standard Practice for Ultimate Analysis of Coal and Coke	40 CFR part 75 Appendices A and F NR 439.08 (1) (g) NR 439.098 (1) (a)
(45)	ASTM D3177–89 (1997)	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	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 D3792–98	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 D4017–96a	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
(50)	ASTM D4052–96	Standard Test Method for Density and Relative Density of Liquids by Digital Density Meter	40 CFR part 75 Appendix D
(51)	ASTM D4057–95	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	Standard Practice for Automatic Sampling of Petroleum and Petroleum Products	40 CFR part 75 Appendix D NR 439.08 (2) (a)
(53)	ASTM D4239–94	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 D4294–98	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 D4809–95	Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Intermediate Precision Method)	40 CFR part 75 Appendices D, E and F NR 460.10 (2) (f)
(55b)	ASTM D4953–06	Standard Test Method for Vapor Pressure of Gasoline and Gasoline–Oxygenate Blends (Dry Method)	NR 419.045 (5) (d)
(55bg)	ASTM D5190–07	Standard Test Method for Vapor Pressure of Petroleum Products (Automatic Method)	NR 419.045 (5) (d)
(55br)	ASTM D5191–10b	Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method)	NR 419.045 (5) (d)

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Table 5 (Continued)
ASTM Standard References

Standard Number	Standard Title	Incorporated by Reference For
(56) ASTM E84-03	Standard Test Methods for Total Sulfur in the Burning Characteristics of Building Materials	ANSI/AHA A135.5-2004 Register July 20009 No 643
(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)

NR 484.11 Other private organizations. The following materials from other private organizations listed in the first column of Tables 6A to 6E 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 445.04 (3) (c) 6. 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) 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 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)
(d)		Industrial Ventilation: A Manual of Recommended Practice, 20th ed., 1988	NR 421.04 (3) (c) 1.

(4) The following are documents from the American National Standards Institute.

Note: Copies may be purchased for personal use from:

Composite Panel Association
19465 Deerfield Avenue, Suite 306
Leesburg, VA 20176
Telephone: (703) 724-1128
Website: <http://www.pbmdf.com>

or from:

HIS Global Engineering Documents
15 Inverness Way East
Englewood, CO 80112
Telephone: (800) 854-7179
E-mail: globalcustomerservice@ihs.com
Website: <http://global.ihs.com>

Table 6D

~~AHA Document References~~

Document Number	Title	Incorporated by Reference For
(a) ANSI A135.4-2004	Basic Hardboard	ANSI A135.5-2004 NR 422.02 (12s)
(b) ANSI A135.5-2004	Prefinished Hardboard Paneling	NR 422.02 (13)

(5) The following is a document from the American Petroleum 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 Tanks, 3rd edition, February 1989	NR 419.045 (5) (d) NR 420.02 (33) NR 420.03 (3) (c)

~~(6) The following are documents 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 07007-2900
E-mail: infocentral@asme.org
Phone: (973) 882-1170
Fax: (973) 882-5155~~

Table 6F

(12) The following document is a joint publication of the American Public Health Association, the American Water Works Association, and the Water Environment Federation.

Note: Copies may be purchased for personal use from:
APHA

Publications Sales
PO Box 933019
Atlanta, GA 31193-3019
Telephone: (888) 361-2742
Website: <http://www.apha.org/publications/pubscontact/>

Table 6L
APHA Document Reference

Document Number	Title	Incorporated by Reference For
N/A	Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998	NR 419.045 (5) (f) 5.

History: Cr [Register, February, 1995, No 470](#), eff 3-1-95; am (1) (b), [Register, April, 1995, No 472](#), eff 5-1-95; r (1) (c), am (1) (a), [Register, December, 1995, No 480](#), eff 1-1-96; am (5), [Register, January, 1997, No 493](#), eff 2-1-97; am (5), renum (1) to (5) to be (2), (3), (4), (5) and (1), cr (6) and (7), [Register, November, 1999, No 527](#), eff 12-1-99; CR 00-160: renum (7) and Table 6G to be (8) and Table 6H, cr (7) and (10), [Register August 2001 No 548](#), eff 9-1-01; CR 00-175: am (intro), cr (9) and Table 6I [Register March 2002 No 555](#), eff 4-1-02; CR 02-012: am (intro), cr (11) and Table 6K [Register October 2002 No 562](#), eff 11-1-02; CR 03-037: am (6) and Table 6F, cr (6) (b) [Register March 2004 No 579](#), eff 4-1-04; CR 02-097: am (2) (b), cr (2) (c), [Register June 2004 No 582](#), eff 7-1-04; CR 05-040: am (intro) and (1) Table 6A [Register February 2006 No 602](#), eff 3-1-06; CR 05-116: am (6) (b) [Register November 2006 No 611](#), eff 12-1-06; CR 07-045: am (6) (b) [Register April 2008 No 628](#), eff 5-1-08; CR 04-023: am (2) (d) [Register December 2008 No 636](#), eff 1-1-09; CR 08-102: am (4) [Register July 2009 No 643](#), eff 8-1-09; CR 11-005: am. (5), cr. (12) [Register January 2012 No. 673](#), eff. 2-1-12.