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DEPARTMENT OF NATURAL RESOURCES

NR 484.04

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 484.01 Applicability; purpose. (1) APPLICABIL-ITY. 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., Register, 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 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.

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 1

	CF R 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 Equivalent Methods	NR 400.02 (123e) and (123s) NR 404.06 (3) (b)	
(6)	40 CFR 63.457	Test methods and procedures	NR 464	
(7)	40 CFR part 75	Continuous Emission Monitoring	NR 446.18 (1) (a) and (c)	

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, May, 1993, No. 449, eff. 6-1-93; am. (intro.) and (5), Register, May, 1993, No. 449, eff. 6-1-93; am. (intro.) and (5), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.) and (4), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.) and (4), Register, 1994, 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 07-063; 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; CR 10-500; am. (5) Register September 2001 No. 659, eff. 12-1-10.

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 reference in this section, the materials listed in this section which are incorporated by reference for the other appendix are hereby also incorporated by reference and made a part of this chapter.

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

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WISCONSIN ADMINISTRATIVE CODE

		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 Main- tenance Activities—Non-Mandatory	NR 447.02 (18) Note
(2)	40 CFR part 50 Appendices A to N		NR 404.02 (8) NR 404.06 (2)
4)	40 CFR part 50 Appendix H	Interpretation of the 1-Hour Primary and Secondary National Ambient Air Quality Standards for Ozone	NR 404.04 (5) (a)
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 PM_{10} 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 50 Appendix S	Interpretation of the National Ambient Air Quality Standards for Nitrogen Dioxide	NR 404.04 (6) (a)
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 460.06 (4) (b) (intro.) NR 465.09 (4) (b) 1. and 2. NR 465.22 (25), (29) and (31) NR 465.25 (3) (k) 4. and 5. a. and NR 465.28 (6) (b) 1. a., b. and d. and 2. a., b. and c. and Table 1 of subch. III of ch. NR 465 subchs. IV and V of ch. NR 465 NR 466.09 (5) NR 466.24 (3) (f) 1. and 2.
(10)	40 CFR part 51 Appendix S, Section IV	Sources That Would Locate in a Designated Nonat- tainment 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 Re- gional Haze Rule	NR 433.03 (1) NR 433.04 (2) NR 433.05 (1) (c)
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.

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	CFR Appendix References			
	CFR Appendix Referenced	Title	Incorporated by Reference For	
(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 sta- tionary 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 Emis- sions 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 Ma- terial Sources and Smoke Emissions from Flares	NR 415.075 (3) (c) NR 460, Appendix DDDDD	
(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 Concentra- tion 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 Emis- sions 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 Emis- sions from Coal-Fired Combustion Sources Using Car- bon 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	
(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 Pollu- tants: 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	

	Table 2 (Continued) CFR Appendix References			
	CFR Appendix Referenced	Title	Incorporated by Reference For	
(24)	40 CFR part 63, Subpart KK, Appendix A	Data Quality Objective and Lower Confidence Limit Approaches for Alternative Capture Efficiency Proto- cols and Test Methods	NR 439.06 (3) (am) NR 465.09 (4) (b) 3. NR 465.25 (1) (b) 9. a. NR 465.28 (6) (b) 3. NR 465.35 (1) (c) 9. a. NR 465.38 (6) (e) NR 465.45 (1) (c) 9. a. NR 465.48 (6) (e) NR 466.94 (6) (b) NR 466.24 (3) (f) 3.	
(24g)	40 CFR part 63, Subpart MMMM, Appendix A	Alternative Capture Efficiency and Destruction Effi- ciency 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 Eligibil- ity 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 (F_{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 un- der 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) (a)	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. e.	
(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 446.07 (3) NR 446.08 (1) (a)	
(27)	40 CFR part 75 Appendices A to I		NR 428 NR 428.23 (1) (b) 1. NR 439 NR 446.18 (1) (a) and (c)	
(27m)	40 CFR part 82, Subpart A, Appendices A and B		NR 405 NR 408	
(27s)	40 CFR part 136, Appendix 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) (a) and (b) NR 447.02 (16) NR 447.02 (27) NR 447.02 (36) NR 447.09 (1) (a) and (b) (intro.)	

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, Narch, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11), (13), (16), (23) and (24), Register, March, 1997, No. 495, eff. 4-1-97; am. (intro.), (11),

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vember, 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 Cobber 2003 No. 574, eff. 11-1-03; CR 03-037: am. Table 2 (9) and (24) Register March 2004 No. 579, eff. 4-1-02; CR 02-146: cr. (21s) Register (7-1-04; CR 01-081: cr. (20m) and (26m) Register September 2004 No. 585, eff. 10-1-04; CR 03-066: am. (20) 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. 630, eff. 7-1-08; CR 07-036: am. (20m), (20m) (a) to (d) and (27), cr. (20s) and (20t) Register April 2008 No. 636, eff. 1-1-09; CR 08-102: am. (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; Cerrections in (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; Cerrections in (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; Cerrections in (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; Cerrections in (16), (19) and (20) Register July 2009 No. 643, eff. 8-1-09; Cerrections in (16), (19) and (20) Register July 2009 No. 654, eff. 18-1-09; CR 08-088: am. (3), cr. (6t) and (6t) Register July 2009 No. 643, eff. 8-1-09; CR 08-088: am. (3), cr. (6t) and (6t) Register July 2009 No. 653, eff. 6-1-10; CR 10-109; CR 08-088: am. (3), cr. (6t) and (6t) Register July 2009 No. 653, eff. 6-1-10; CR 10-109; CR 09-088: am. (3), cr. (6t) and (6t) Register July 2010 No. 659, 12-1-10; CR 10-050: am. (5t), (6g) Register No

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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

National Technical Information S 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 405.02 (8) 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)
(2)	NTIS Order No. PB-266 227	Recommended Industrial Ventilation Guidelines, U.S. Department of Health, Education, and Welfare, Na- tional 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)
(8)	EPA, OAQPS, AP-42	Compilation of Air Pollutant Emission Factors, Vol- ume I: Stationary Point and Area Sources, Fifth Edi- tion, January 1995, as revised by Supplement A (Feb- ruary 1996), Supplement B (November 1996), Supple- ment C (November 1997), Supplement D (July 1998), Supplement E (November 1999), Supplement F (Octo- ber 2000) and Update 2001 (December 2001)	NR 437.04 (2) (a) 6. NR 438.03 (5) (a) NR 489.09 (2) (b)
(8g)	EPA, OAQPS, AP-42	Compilation of Air Pollutant Emission Factors, Vol- ume 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, Vol- ume II: Mobile Sources, Fifth Edition, Appendix G (1998), Appendix H (1995), Appendix I (1998), Ap- pendix 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 446.21 (3) (d) Note
(10)	EPA-454/R-98-015, Sep- tember 1997	Fabric Filter Bag Leak Detection Guidance	NR 463.15 (6) (a) 2.

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(12)	EPA-625/3-89-016	Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo- p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update	NR 463.12 (39) NR 463.166 (4)	
(14)	NTIS Order No. DE95003295INZ	Voluntary reporting of greenhouse gases under Sec- tion 1605(b) of the Energy Policy Act of 1992 - Gen- eral Guidelines, October 1994	NR 437.04 (2) (a) 17.	
(14)	NTIS Order No. DE95003295INZ	Voluntary reporting of greenhouse gases under Sec- tion 1605(b) of the Energy Policy Act of 1992 - Gen- eral 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, Electric- ity Supply Sector, Residential and Commercial Build- ings 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, Trans- portation Sector, Forestry Sector, and Agricultural Sector, October 1994.	NR 437.04 (2) (a) 19.	
(17)	NTIS Order Nos.: printed - PB2007-100002 CD-ROM - PB2007- 500023	North American Industry Classification System United States, 2007	NR 405.02 (22) (a) 1. NR 405.07 (4) (a) 20. NR 407.02 (4) (b) 20. NR 408.02 (21) (e) 5.	

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), (2) to than. roll (4) to (6), required, (2) and am. (2) to (c) to (c) (c) to (c) (a) and (7), (c) and (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; CR 15-077: r. (4), (5) Register July 2016 No. 727, eff. 8-1-16.

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 and legislative reference bureau, Madison, Wisconsin or may be purchased for personal use by writing to the organizations listed in the individual subsections.

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

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

Table 4A **Federal Register Document Reference**

Citation	Title	Incorporated by Reference For
51 FR 43814, Dec. 4, 1986	Emissions Trading Policy Statement; General Principles for	NR 408.06 (1) (d) Note
	Creation, Banking, and Use of Emission Reduction Credits	NR 425.05 (1) (b) 2.

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

Note: Copies may be purchased for personal use from: Bureau of Mines

U.S. Department of the Interior Washington DC 20240

Table 4B		
U.S. Bureau Of Mines Document Reference		

Document Number	Title	Incorporated by Reference For
Information Circular 7588	Fundamentals of Smoke Abatement, December,	NR 400.02 (137) Note
	1950, Ringelmann Chart	

(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

NR 484.06

Document Number	Federal Highway Administr Title		e Incorporated by Reference For
FP-92, 1992	Standard Specifications for Co Bridges on Federal Highway P	onstruction of Roads and	NR 447.04 (2) (c)
 (4) The following are from the U agency. Note: Paragraph (a) lists a database docun loaded for personal use from the following int https://www.epa.gov/electronic-report Those without access to a computer can ob 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 pa use from the following internet address: http tories/air-emissions-inventory-improvement-p Those without access to a computer can ob Info CHIEF Emission Factor And Inventory Green Comparison of the comparison of the comparison of the comparison of the computer can ob Info CHIEF Emission Factor And Inventory Green Comparison of the compariso	nent. Electronic copies may be down- ternet address: ing-air-emissions/webfire. tain printed copies of all or of specific r. (b) may be downloaded for personal s://www.epa.gov/air-emissions-inven- rogram-eiip. tain printed copies from:	ternet for personal use from http ments/bagleak/detectionguidance may be downloaded from http://www3.epa.gov/epawaste/h Those without access to a comp from: National Technical Info 5285 Port Royal Road Springfield VA 22161 Note: The wastewater treatme documentation, may be download	rotection Agency NC 27711 i listed in par. (c) may be downloaded from the in s://www.epa.gov/sites/default/files/2021-01/docu e.pdf. Copies of the documents listed in par. (e the internet for personal use fror azard/testmethods/sw846/online/index.htm. puter can obtain printed copies of these document prmation Service ent model listed in par. (f), along with supportin led for personal use from https://www.epa.gov/ain nventory-improvement-program-eiip. EPA contac
Emission Factor And Inventory Gr	Table		iner net site.
	S. Environmental Protection		
Document Number(a) EPA, OAQPS, FIRE 6.23	Tit Factor Information Retrieval		Incorporated by Reference For
(b) EPA, EIIP Technical Report Series 1. EPA-454/R-97-004a	EIIP Volume I, Introduction for Emission Inventory Deve	and Use of EIIP Guidance	
2. Volume II	Point Sources, May 2002	clopinent, July 1997	NR 437.04 (2) (a) 10.
3. Volume III	Area Sources and Area Sour 2001	rce Method Abstracts, June	
4. Volume IV 5. Volume VI	Mobile Sources, September Quality Assurance Procedur September 1997		NR 437.04 (2) (a) 12. NR 437.04 (2) (a) 13.
6. Volume VII	Data Management Procedure		NR 437.04 (2) (a) 14.
 7. Volume VIII 8. Volume IX 	Estimating Greenhouse Gas Particulate Emissions, Septe		NR 437.04 (2) (a) 15. NR 437.04 (2) (a) 16.
(c) EPA-454/R-98-015, September 1997	Fabric Filter Bag Leak Deter	ction Guidance	NR 462.05 (6) (i) NR 463.23 (3) (b) 4.
(d) EPA-453/R-01-005	National Emission Standards tants for Integrated Iron and Information for Proposed Sta	Steel PlantsBackground	NR 462.01 (4) (k)
(e) EPA, SW-846	Test Methods for Evaluating cal/Chemical Methods, Thir as amended by Updates I, II, IVA, and IVB	d Edition, September 1986,	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 (Reactor Processes and Distil cesses in the Synthetic Organ ing Industry	lation Operations Pro-	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: https://bhgs.dca.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	NR 465.04 (1) (b) 1.	
	for Testing the Flame Retardance of Uphol-		
	stered Furniture		
(b) Technical Bulletin 117	Requirements, Test Procedure and Apparatus	NR 465.04 (1) (b) 1.	
	for Testing the Flame Retardance of Resilient		
	Filling Materials Used in Upholstered		
	Furniture		
(c) Technical Bulletin 133	Flammability Test Procedure for Seating Fur-	NR 465.04 (1) (b) 1.	
	niture for Use in Public Occupancies		

(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: https://www.ipcc-nggip.iges.or.jp/public/gl/invs1.html. Those without access to a computer can obtain printed copies from:

IPCC Secretariat

ies from: Fax: +41-22-730-8025 e-mail: ipcc_sec@gateway.wmo.ch Table 4F

C.P. 2300

7bis Avenue de la Paix

Phone: +41-22-730-8208

C/O World Meteorological Organization

CH- 1211 Geneva 2, Switzerland

IPCC Document Reference			
Publishing Organization	Title	Incorporated by Reference For	
Intergovernmental Panel on Climate	Revised 1996 IPCC Guidelines for Na-	NR 437.04 (2) (a) 4.	
Change (IPCC)	tional Greenhouse Gas Inventories, Vol-		
	umes 1-3		

(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 Measure- ment and Verification Protocol, Volume 1 - Concepts and Options for Determining Energy Savings,	NR 437.04 (2) (a) 5.
	January 2001	
History: Cr Register February 1995 No 470 ef	f 3-1-95 am (1) Register December 1996 No 492	eff 1-1-97; am (2) cr (4) Register November 1999 No 52'

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; CR 21-072; am. (4) (a) in Table 4D Register July 2022 No. 799, eff. 8-1-22.

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 standards are incorporated into other documents which are separately incorporated by reference in this chapter. Those documents are also listed in the third column of Table 5.

Note: 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 at one of the following addresses:

American Society for Testing and Materials (ASTM) 100 Barr Harbor Drive W Conshohocken PA 19428-2959 Telephone: (610) 832-9585 Fax: (610) 832-9555 E-mail: service@astm.org Website http://www.astm.org or from:

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

NR 484.10

	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 (2005)	Standard Test Method for Sulfur in Petroleum Prod- ucts (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 D240-02	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 (2000)	Standard Test Method for API Gravity of Crude Pe- troleum and Petroleum Products (Hydrometer Method)	40 CFR part 75 Appendix D	
(6)	ASTM D323-08	Standard Test Method for Vapor Pressure of Petro- leum Products (Reid Method)	NR 419.045 (5) (d) NR 420.02 (31)	
(7)	ASTM D388-99e1 (2004)	Standard Classification of Coals by Rank	40 CFR part 75 Appendix F NR 400.02 (40) NR 462.02 (6)	
(8)	ASTM D396-02a	Standard Specification for Fuel Oils	NR 400.02 (70) NR 400.02 (135) NR 420.03 (1) (a) NR 462.02 (11) and (41)	
(9)	ASTM D523-89 (1999)	Standard Test Method for Specular Gloss	ANSI A135.5-2004 NR 422.02 (26), (41s), and (49m)	
(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 A135.5-2004	
(13)	ASTM D975-02	Standard Specification for Diesel Fuel Oils	NR 409.02 (34) NR 420.03 (1) (a)	
(14)	ASTM D1037-99	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials	ANSI A135.4-2004 ANSI A135.5-2004	
(15)	ASTM D1072-90 (1999)	Standard Test Method for Total Sulfur in Fuel Gases	40 CFR part 75 Appendix D	
(16)	ASTM D1193-99	Standard Specification for Reagent Water	40 CFR part 60 Appendix A: Method 5, par. 7.1.3 Method 5E, par. 7.2.1 Method 5F, par. 7.2.1 Method 6, par. 7.1.1 Method 7, par. 7.1.1 Method 7D, par. 7.1.1 Method 7D, par. 7.1.1 Method 10A, par. 7.1.1 Method 11, par. 7.1.3 Method 12, par. 7.1.3 Method 13A, par. 7.1.2 Method 25D, par. 7.2.2.4 Method 26D, par. 7.1.2 Method 26A, par. 7.1.2 Method 26A, par. 7.1.2 Method 29, pars. 7.2.2, 7.4.2 and 7.5.6 40 CFR part 61 Appendix B, Method 101, par. 6.1.1	
(17)	ASTM D1217-93 (1998)	Standard Test Method for Density and Relative Den- sity (Specific Gravity) of Liquids by Bingham Pycnometer	40 CFR part 75 Appendix D	

Table 5		
ASTM Standard References		

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	Standard Number	Standard Title	Incorporated by Reference For
(18)	ASTM D1250-80 (1997)	Standard Guide for Petroleum Measurement Tables	40 CFR part 75 Appendix D
(20)	ASTM D1298-99	Standard Practice for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petro- leum 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
(22)	ASTM D1475-98 (2003)	Standard Test Method for Density of Liquid Coat- ings, Inks, and Related Products	40 CFR part 60 Appendix A: Method 24, par. 6.1 Method 24A, pars. 6.5 and 7.1 NR 465.26 (2) (b) 3. and (c) NR 465.37 (2) (c) NR 465.46 (2) (b) 4. and (c) NR 465.47 (2) (c)
(23)	ASTM D1480-93 (1997)	Standard Test Method for Density and Relative Den- sity (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 Den- sity (Specific Gravity) of Viscous Materials by Lip- kin Bicapillary Pycnometer	40 CFR part 75 Appendix D
(25)	ASTM D1552-03	Standard Test Method for Sulfur in Petroleum Prod- ucts (High-Temperature Method)	40 CFR part 75 Appendices A and D NR 439.08 (2) (b)
(25m)	ASTM D1613-02	Standard Test Method for Acidity in Volatile Sol- vents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products	NR 422.02 (67m), 422.084 (2) (c), and 422.151 (2) (b) and (c)
(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, Method 19 40 CFR part 75 Appendices E and F NR 400.02 (79)
(26m)	ASTM D1835-03a	Standard Specification for Liquid Petroleum Gases	NR 462.02 (36) (b)
(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 40 CFR part 75 Appendix F NR 439.08 (1) (b) NR 462, Table 6
(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
(32)	ASTM D2197-98 (2002)	Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion	ANSI A135.5-2004
(33)	ASTM D2234/D2234M- 03e1	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. NR 462, Table 6

Table 5 (Continued)

NR 484.10

	Standard Number	Standard Title	Incorporated by Reference For
(33)	ASTM D2234/D2234M- 03e1	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. NR 462, Table 6
(34)	ASTM D2369-01e1	Standard Test Method for Volatile Content of Coatings	40 CFR part 60 Appendix A, Method 24, par. 6.2
Note: AS	TM D2382 was discontinued in 1994,	and replaced by ASTM D4809.	
(36)	ASTM D2486-00	Standard Test Method for Scrub Resistance of Wall Paints	ANSI A135.5-2004
(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 Thermo- electric Measurement of Vapor Pressure	40 CFR part 75 Appendix G
(39)	ASTM D2622-98	Standard Test Method for Sulfur in Petroleum Prod- ucts by Wavelength Dispersive X-ray Fluorescence Spectrometry	40 CFR part 75 Appendices A and E
(39e)	ASTM D2697-86 (1998)	Standard Test Method for Volume Nonvolatile Mat- ter in Clear or Pigmented Coatings	NR 465.26 (2) (b) 1. NR 465.46 (2) (b) 1.
(39m)	ASTM D2879-10	Standard Test Method for Vapor Pressure-Tempera- ture Relationship and Initial Decomposition Temper- ature of Liquids by Isoteniscope	NR 419.045 (5) (d) 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: Method 5, par. 7.1.1 Method 12, par. 7.1.1 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 D3173-02	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) NR 462, Table 6
(43)	ASTM D3174-04	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 NR 439.08 (1) (g) NR 439.098 (1) (a)
(45)	ASTM D3177-02	Standard Test Methods for Total Sulfur in the Analy- sis Sample of Coal and Coke	40 CFR part 60 Appendix A, Metho 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 Petro- leum Oils by the n-d-M Method	40 CFR part 75 Appendix G
(47L)	ASTM D3683-94 (2000)	Standard Test Method for Trace Elements in Coal or Coke Ash by Atomic Absorption	NR 462, Table 6

Table 5 (Continued) STM Standard References

	Standard Number	Standard Title	Incorporated by Reference For
(47m)	ASTM D3684-01	Standard Test Method for Total Mercury in Coal by Oxygen Bomb Combustion/Atomic Absorption Method	NR 446.04 (1) (b) NR 446.04 (1) (c) 1. b. NR 446.07 (1) NR 446.07 (2) NR 446.08 (1) (b) NR 446.08 (1) (c) 2. NR 462, Table 6
(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 Den- sity 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 Petro- leum and Petroleum Products	40 CFR part 75 Appendix D NR 439.08 (2) (a)
(53)	ASTM D4239-04a	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 D4294-03	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 Nethod for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method)	40 CFR part 75 Appendices D, E and F NR 460.10 (2) (f) 2.
(55b)	ASTM D4953-06	Standard Test Method for Vapor Pressure of Gaso- line and Gasoline-Oxygenate Blends (Dry Method)	NR 419.045 (5) (d)
(55bg)	ASTM D5190-07	Standard Test Method for Vapor Pressure of Petro- leum Products (Automatic Method)	NR 419.045 (5) (d)
(55br)	ASTM D5191-10b	Standard Test Method for Vapor Pressure of Petro- leum Products (Mini Method)	NR 419.045 (5) (d)
(55g)	ASTM D5865-04	Standard Test Method for Gross Calorific Value of Coal and Coke	NR 400.02 (79) NR 439.08 (1) (d)
(55i)	ASTM D5965-02	Standard Test Methods for Specific Gravity of Coat- ing Powders	NR 465.47 (2) (c)
(55L)	ASTM D6053-00	Standard Test Method for Determination of Volatile Organic Compound (VOC) Content of Electrical In- sulating Varnishes	40 CFR part 63, Subpart MMMM, Appendix A
(55m)	ASTM D6093-97 (2003)	Standard Test Method for Percent Volume Non- volatile Matter in Clear or Pigmented Coatings Us- ing a Helium Gas Pycnometer	NR 465.26 (2) (b) 1. NR 465.46 (2) (b) 1.
(55p)	ASTM D6323-98 (2003)	Standard Guide for Laboratory Subsampling of Me- dia Related to Waste Management Activities	NR 462, Table 6
(55t)	ASTM D6522-00	Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentra- tions in Emissions from Natural Gas-Fired Recipro- cating Engines, Combustion Turbines, Boilers and Process Heaters Using Portable Analyzers	NR 462, Table 5
(55v)	ASTM D6751-09	Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels	NR 406.02 (1)
(55x)	ASTM D6784-02	Standard Test Method for Elemental, Oxidized, Par- ticle-Bound and Total Mercury in Flue Gas Gener- ated from Coal-Fired Stationary Sources (Ontario Hydro Method)	NR 462, Table 5

Table 5 (Continued) ASTM Standard References

NR 484.11

	ASTM Standard References			
	Standard Number	Standard Title	Incorporated by Reference For	
(55c)	ASTM D5291-02	Standard Test Methods for Instrumental Determina- tion of Carbon, Hydrogen, and Nitrogen in Petro- leum Products and Lubricants	40 CFR part 63, Subpart MMMM, Appendix A	
(56)	ASTM E84-03	Standard Test Method for Surface Burning Charac- teristics of Building Materials	ANSI A135.5-2004	
(56d)	ASTM E711-87 (2004)	Standard Test Method for Gross Calorific Value of Refuse-Derived Fuel by the Bomb Calorimeter	NR 462, Table 6	
(56h)	ASTM E776-87 (2004)	Standard Test Method for Forms of Chlorine in Refuse-Derived Fuel	NR 462, Table 6	
(56m)	ASTM E145-94 (2001)	Standard Specification for Gravity-Convection and Forced-Ventilation Ovens	40 CFR part 63, Subpart PPPP, Appendix A	
(56p)	ASTM E871-82 (1998)	Standard Method of Moisture Analysis of Particulate Wood Fuels	NR 462, Table 6	
(56t)	ASTM E885-88 (2004)	Standard Test Methods for Analyses of Metals in Refuse-Derived Fuel by Atomic Absorption Spectroscopy	NR 462, Table 6	
(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	

Table 5 (Continued) ASTM Standard References

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 Ator 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; CR 03-037; am. Table 5 (22), and cr. (39e) and (55m) Register March 2004 No. 579, eff. 4-1-04; CR 01-081; am. (47m) Register September 2004 No. 585, eff. 10-1-04; CR 05-040; am. (intro.), (22), (39e) and (55m), cr. (55c), (551), (551), and (56m), Register February 2006 No. 602, eff. 3-1-06; CR 07-036; am. (47m) Register November 2008 No. 635, eff. 12-1-08; CR 08-102; am. (9), (12), (14), (21), (32), (36), (56) Register January 2010 No. 643, eff. 8-1-09; CR 09-020; cr. (55v), Register January 2010 No. 649, eff. 2-1-10; CR 11-005; am. (6), (39m) in Table 5, cr. (55b), (55b), (55b), in Table 5 Register January 2012 No. 673, eff. 2-1-21; CR 20-088; am. (9), (25m) in Table 5 Register May 2022 No. 797, eff. 6-1-22; correction in Table (4B) made under s. 35.17, Stats., Register April 2025 No. 832.

NR 484.11 Other private organizations. The following materials from other private organizations listed in the first column of Tables 6A to 6K 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 6K. Some of the materials are incorporated into other documents which are separately incorporated by reference in this chapter. Those documents are also listed in the third column of Tables 6A to 6K.

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 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 2604-02	Voluntary Specification, Performance Requirements and	NR 422.02 (42)
	Test Procedures for High Performance Organic Coatings	NR 465.42 (21)
	On Aluminum Extrusions and Panels	

(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

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

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Document Number Title Incorporated by Reference I (a) ISBN:0-936712-72-4 Threshold Limit Values and Biological Exposure Indexes for 1987-1988 NR 445.04 (1) (a) 2. (a) ISBN:0-936712-72-4 Threshold Limit Values and Biological Exposure Indexed (1) (b) NR 445.04 (1) (a) 2. (a) ISBN:0-936712-72-4 Threshold Limit Values for Chemical Subtom (1) (b) NR 445.04 (1) (b) (b) ISBN:0-936712-86-4 1990-1991 Threshold Limit Values for Chemical Subtom (1) (b) NR 445.05 (1) (a) 1. (b) ISBN:0-936712-86-4 1990-1991 Threshold Limit Values for Chemical Subtom (1) (b) NR 445.05 (2) (a) (c) ISBN:1-882417-36-4 1990-1991 Threshold Limit Values for Chemical Subtom (445.04 (4) (a) 1. NR 445.05 (4) (a) 2. (c) ISBN: 1-882417-36-4 2000 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices NR 445.05 (4) (b) 4. (c) ISBN: 1-882417-36-4 2000 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices NR 445.05 (4) (b) 4. (d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998 NR 445.04 (4) (b) 4. (d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998			Table 6B ACGIH Document References	
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(c) ISBN: 1-882417-36-4 2000 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices NR 445.07 (1) (b) (intro.) (d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998 NR 445.15 (3) (d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998 NR 460 Appendix RRR NR 463.14, Table 2 (d) Net 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 Incorporated by Reference I Document Number Title Incorporated by Reference I Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.				
and Physical Agents and Biological Exposure Indices NR 445.07 (5) (d) 2. NR 445.15 (3) NR 445.15 (3) NR 445.15 (3) NR 445.15 (3) NR 421.04 (3) (c) 1. NR 460 Appendix RRR NR 463.14, Table 2 NR 463.14 (3) (a) (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 Incorporated By Refer				NR 445.05 (4r) (b) 4.
(d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998 NR 445.15 (3) (d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998 NR 4421.04 (3) (c) 1. (3) The following is a document from the American Gas Association (AGA) laboratories. NR 463.14 (3) (a) (3) The following is a document from the American Gas Association Laboratories 8501 East Pleasant Valley Road Cleveland OH 44131 Table 6C AGA Laboratories Document Reference Incorporated by Reference I Document Number Title Incorporated by Reference I Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.	(c)	ISBN: 1-882417-36-4		NR 445.07 (1) (b) (intro.)
(d) Industrial Ventilation: A Manual of Recommended Practice, 23th ed., 1998 NR 421.04 (3) (c) 1. NR 460 Appendix RRR NR 463.14, Table 2 NR 463.14 (3) (a) (3) The following is a document from the American Gas As- ociation (AGA) laboratories. NR 463.14 (3) (a) 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 1 Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.			and Physical Agents and Biological Exposure Indices	NR 445.07 (5) (d) 2.
Practice, 23th ed., 1998 NR 460 Appendix RRR NR 463.14, Table 2 NR 463.14 (3) (a) (3) The following is a document from the American Gas As- ociation (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 I Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.				
NR 463.14, Table 2 NR 463.14 (3) (a) (3) The following is a document from the American Gas As- ociation (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 1 Standard Z21.6 - 1973 with addenda:	(d)		Industrial Ventilation: A Manual of Recommended	NR 421.04 (3) (c) 1.
NR 463.14 (3) (a) (3) The following is a document from the American Gas Asociation (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 Mote: Copies may be purchased for personal use from: American Gas Association Laboratories 8501 East Pleasant Valley Road Cleveland OH 44131 Table 6C More of C MAGA Laboratories Document Reference Document Number Title Incorporated by Reference I Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.			Practice, 23th ed., 1998	
(3) The following is a document from the American Gas As- ociation (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 I Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.				
bociation (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 I Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.				NR 463.14 (3) (a)
AGA Laboratories Document Reference Document Number Title Incorporated by Reference Standard Z21.6 - 1973 with addenda: American National Standard for Domestic NR 415.07 (1) (b) 2.	ociation Note: (Ar 85	n (AGA) laboratories. Copies may be purchased for personal u merican Gas Association Laboratories 01 East Pleasant Valley Road		
Document NumberTitleIncorporated by ReferenceStandard Z21.6 - 1973 with addenda:American National Standard for DomesticNR 415.07 (1) (b) 2.				
Standard Z21.6 - 1973 with addenda:American National Standard for DomesticNR 415.07 (1) (b) 2.				
				Incorporated by Reference For
Z21.6a - 1975, Z21.6b - 1978 Gas-Fired Incinerators NR 415.07 (2) (a) 4.				
	Z21.6a	- 1975, Z21.6b - 1978	Gas-Fired Incinerators	NR 415.07 (2) (a) 4.

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.nebm.df.com Website: http://www.pbmdf.com Website: http://www.pontur.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

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D	API Document Reference	
Document Number	Title	Incorporated by Reference Fo
Publication 2517	Evaporative Loss from External Floating Roof Tanks, 3rd edition, February 1989	
 (6) The following are documents f Mechanical Engineers (ASME): Note: Copies may be purchased for persona The American Society of Mechanica 22 Law Drive Fairfield NJ 07007-2900 E-mail: infocentral@asme.org Phone: (973) 882-5155 	l use from:	
	Table 6F	
	ASME Document Reference	
Document Number	Title	Incorporated by Reference For
(a) PTC 4.2-1969 (1997) (b) PTC 19.10-1981	Test Code for Coal Pulverizers Flue and Exhaust Gas Analysis	NR 439.098 (1) (c) NR 462, Table 5 NR 465.28 (7) (a) 3. NR 466.24 (3) (e) 1. c.
Phone: (616) 285-3963 Fax: (616) 285-3765	Table 6G	
Document Number	BIFMA Document Reference Title	Incorporated by Reference For
BIFMA X5.7-1991	Voluntary Upholstered Furniture Flammability Stan- dard for Non-residential, Non-live-in Occupancies	NR 465.04 (1) (b) 1.
(8) The following is a document	u u u u u u u u u u u u u u u u u u u	
ization for Standardization (ISO): Note: Copies may be purchased for persona American National Standards Institu 11 West 42nd Street 13th floor New York NY 10036		
Note: Copies may be purchased for persona American National Standards Institu 11 West 42nd Street 13th floor	te Table 6H	
Note: Copies may be purchased for persona American National Standards Institu 11 West 42nd Street 13th floor New York NY 10036	te Table 6H ISO Document Reference	
American National Standards Institu 11 West 42nd Street 13th floor	te Table 6H	Incorporated by Reference For NR 439.098 (1) (c)

Research Triangle Park NC 27709-3318 http://www.ncasi.org (919) 558-1987

	Table 6I 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 Fur-

niture 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)	DMTM1990	Decking Materials Test Method1990	NR 465.04 (1) (b) 1.
(b)	WCTM1990	Welt Cord Test Method1990	NR 465.04 (1) (b) 1.
(c)	IFTM1990	Interior Fabrics Test Method1990	NR 465.04 (1) (b) 1.
(d)	F/PCTM1990, PT A	Filling/Padding Component Test Method1990 Part A - For Slab or Garnetted Materials	NR 465.04 (1) (b) 1.
(e)	F/PCTM1990, PT B	Filling/Padding Component Test Method1990 Part B - For Fibrous or Particulate Materials	NR 465.04 (1) (b) 1.
(f)	PTM1990	Barrier Test Method1990	NR 465.04 (1) (b) 1.
(g)	FCTM1990	Fabric Classification Test Method1990	NR 465.04 (1) (b) 1.
(h)	DTTM1993	Standard Test Methods for Decorative Trims, Edging, and Brush Fringes1993	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://www.ghgprotocol.org/ Printed copies may be purchased from: World Resources Institute Publications

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://www.ghgprotocol.org/cal-culation-tools

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 cor-	NR 437.04 (2) (a) 20.
	porate accounting and reporting stan-	
	dard, first edition, September 2001	
$(\mathbf{h}) \mathbf{N}/\mathbf{A}$	CUC Colculation Tools	ND $427.04(2)(a)21$

(b) N/A	GHG Calculation Tools	NR 437.04 (2) (a) 21.
(12) The following document is	a joint publication of the	APHA Publications Sales
American Public Health Association,	the American Water Works	PO Box 933019
Association, and the Water Environm	ent Federation.	Atlanta, GA 31193-3019 Telephone: (888) 361-2742
Note: Copies may be purchased for personal	use from:	Website: http://www.apha.org/publications/pubscontact/

NR 484.11

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. (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.