

# State of Wisconsin

### \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny, Secretary Box 7921 Madison, Wisconsin 53707 TELEFAX NO. 608-267-3579 TDD NO. 608-267-6897

STATE OF WISCONSIN	)	
	)	s
DEPARTMENT OF NATURAL RESOURCES	)	

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Bruce B. Braun, Deputy Secretary of the Department of Natural Resources and custodian of the official records of said Department, do hereby certify that the annexed copy of Natural Resources Board Order No. AM-9-90 was duly approved and adopted by this Department on March 28, 1991. I further certify that said copy has been compared by me with the original on file in this Department and that the same is a true copy thereof, and of the whole of such original.

# RECEIVED

MAY 3 0 1991 Revisor of Statutes Bureau Bruce B. Braun, Deputy Secretary

(SEAL)

epart OW Harris Garage 73 - 17 - 1811

.

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

# RECEIVED

	_	MAY 3 0 1991
IN THE MATTER of renumbering NR 400.02(16),		Revise .
406.02(1), 484.05(2) and 484.06(1)(zk) to	1 - 284 <sub>0</sub> .	Revisor of Statutes
(zp), renumbering and amending 484.06(2)(a)	• *******	Bureau
to (t), amending NR 400.02(4), (26), (31),	•	
(66) and (80), 406.02(3), 406.04(1)(a)1. to	•	
	•	
3., (g), (h), (i) (title) and (j), (2) (b),	•	
(c), (cm), (d), (e)1. and 5., (f)1. to. 3.	•	
and (g), (3) (title), (7)(a), (b) and (c)1.	•	AM-9-90
and 5., 484.03(title), (intro.) and (3) and	•	
484.06(1)(intro.)(title) and creating NR	•	
400.02(78m) and (98), 406.04(1)(m),419.07,	•	
484.03(6), 484.04 and 484.05(2) to (4), (6)	•	
and (7) of the Wisconsin Administrative Code,	•	
pertaining to organic compound emissions from	•	
the remediation of contaminated soil or	•	·
water.	•	
	• •	

#### Analysis Prepared by the Department of Natural Resources

Authorizing statutes: ss. 144.31(1)(a), 144.38, 144.391(6) and 227.11(2)(a), Stats.

Statutes interpreted: s. 144.31(1)(f), Stats., and revising the State Implementation Plan developed under that provision.

Leaking underground storage tanks in the state are contaminating large quantities of soil and water with organic compounds. This order creates a rule to regulate the emissions of organic compounds to the atmosphere during the remediation or "clean-up" of this contaminated soil and water. The rule also exempts most remediation activities from the need to obtain an air pollution control permit.

In addition, minor clarifying changes are made to the chapters being revised herein. Permit exemption emission rates in ch. NR 406 which presently have only one significant figure are being revised to have two significant figures.

SECTION 1. NR 400.02(4) is amended to read:

NR 400.02(4) "Air curtain destructor" means an incinerator device which utilizes a pit for burning combustible matter, into

which air is blown at high velocity through a manifold and nozzle system along one side of the pit to create a turbulent, vortical flow of air and combustible gases in the pit to bring about complete combustion has the meaning given in s. 144.436(1)(a), Stats.

SECTION 2. NR 400.02(16) is renumbered 406.02(1).

SECTION 3. NR 400.02(26), (31) and (66) are amended to read:

NR 400.02(26) "Control device" means equipment used to destroy or remove air contaminants in a gas stream exiting a capture system prior to emission.

- (31) "Emission" means a release, whether directly or indirectly, of any air contaminant to the ambient air atmosphere.
- (66) "Particulate" or "particulate matter" means any airborne finely divided solid or liquid material which exists as a solid with an aerodynamic diameter smaller than 100 micrometers.

SECTION 4. NR 400.02(78m) is created to read:

NR 400.02(78m) "Remediation" means the removal of a contaminant from a solid or liquid material.

SECTION 5. NR 400.02(80) is amended to read:

NR 400.02(80) "Residual fuel oil" means an industrial fuel oil of grade No. 4, 5 or 6, as determined by the specifications in ASTM D396-78 D396-89a, incorporated by reference in ch. NR

484.

Note: See American Society for Testing and Materials 1983, #1983 Annual Book of ASTM Standards,

Volume 05.01.\*\*—Copies of this document are available for inspection at the offices of the department of

natural resources, secretary of state and revisor of statutes, Madison, Wisconsin, and may be obtained for

personal use from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

SECTION 6. NR 400.02(98) is created to read:

NR 400.02(98) "Thermal evaporation unit" means any device which uses temperatures greater than the ambient temperature or 100 degrees fahrenheit, whichever is greater, to assist in evaporating organic compounds from soil or water.

SECTION 7. NR 406.02(1) is renumbered (1m).

SECTION 8. NR 406.02(3) is amended to read:

NR 406.02(3) "Metropolitan county" means a county which has been designated as either a metropolitan statistical area or a primary metropolitan statistical area by the U.S. department of commerce, national bureau of standards in Federal Information Processing Standards Publication 8-5, October 31, 1984, incorporated by reference in ch. NR 484. The 19 Wisconsin counties which have been so designated are the counties of Brown, Calumet, Chippewa, Dane, Douglas, Eau Claire, Kenosha, La Crosse, Marathon, Milwaukee, Outagamie, Ozaukee, Racine, Rock, Sheboygan, St. Croix, Washington, Waukesha and Winnebago.

Note:—See Federal Information Processing Standards Publication 8-5, 1984 October 31, Metropolitan Statistical Areas (including CMSAs, PMSAs, and NEGMAs), U.S. department of commerce, national bureau of standards. Copies of this publication 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 obtained for personal use from the national technical information service, U.S. department of commerce, Springfield, VA 22161.

Note: The 19 Wisconsin counties which have been so designated are the counties of Brown, Calumet,

Chippewa, Dane, Douglas, Eau Claire, Kenosha, La Crosse, Marathon, Milwaukee, Outagamie, Ozaukee, Racine,

Rock, Sheboygan, St. Croix, Washington, Waukesha and Winnebago.

SECTION 9. NR 406.04(1)(a)1. to 3., (g), (h), (i)(title) and (j) are amended to read:

NR 406.04(1)(a)1. Coal, coke or other solid fuels, except wood, at a heat input rate of not more than one 1.0 million BTU per hour;

- 2. Wood alone or wood in combination with gaseous or liquid fuels at a heat input rate of not more than  $\frac{5}{5.0}$  million BTU per hour:
- 3. Residual or crude oil at a heat input rate of not more than 5 5.0 million BTU per hour;
- (g) Painting or coating operations, including associated cleaning operations, which use or will use not more than 250 total gallons of paint, coatings and solvents per month or which emit or will emit not more than 1666 pounds of volatile organic compounds per month, without considering pollution emission control equipment devices.
- (h) Graphic arts operations, including associated cleaning operations, which use or will use not more than 250 total gallons of coatings, inks and solvents per month or which emit or will

emit not more than 1666 pounds of organic compounds per month, without considering pollution emission control equipment devices.

- (i)(title) Equipment for research and testing.
- (j) A laboratory which emits organic compounds, sulfur dioxide, carbon monoxide, nitrogen oxides or particulate matter or a combination thereof at a rate of less than 5.7 pounds per hour. Emissions shall be determined, without considering pollution emission control equipment devices, by dividing the total emissions during a calendar month by the total hours of operation of the laboratory during that calendar month. A laboratory is in operation if laboratory apparatus or equipment is in use.

#### SECTION 10. NR 406.04(1)(m) is created to read:

NR 406.04(1)(m) The following procedures for the remediation of soil or water contaminated with organic compounds, provided the potential emissions of any hazardous air contaminants are below the levels specified in sub. (2)(f):

- 1. Landspreading of contaminated soil;
- 2. Negative pressure venting of contaminated soil, provided the remediation is completed within 3 months or total organic compounds are emitted at a rate of not more than 5.7 pounds per hour considering emission control devices;
- 3. Pilot tests of negative pressure venting systems provided those tests are completed within 8 hours of start up and the air flow rate during the pilot test does not exceed 100 standard cubic feet per minute;

- 4. Landfilling of contaminated soil;
- 5. Application of biodegradation techniques to contaminated soil;
- 6. Installation and use of devices which remove organic compounds from a private or municipal potable water supply;
- 7. Installation and use of crop irrigation systems or dewatering wells to remediate contaminated water;
- 8. Installation and use of air strippers for treatment of contaminated water, provided the remediation is completed within 3 months;
- 9. Installation and use of any devices or techniques not listed in this paragraph which are used to remediate soil or water contaminated with organic compounds, if the device or technique is not portable and is not a thermal evaporation unit, and the remediation is completed within 3 months; and
- 10. Installation and use of any technique or device to remediate soil or water contaminated with organic compounds as part of on-site actions taken under the authority of the comprehensive environmental response compensation and liability act of 1980, as amended, 42 U.S.C. s. 9601 et seq.

Note: Even though these sources are exempt from permit requirements, they are still subject to the approval requirements under s. NR 419.07(2).

SECTION 11. NR 406.04(2)(b), (c), (cm), (d), (e)1. and 5., (f)1. to 3., (g) and (3)(title) are amended to read:

NR 406.04(2)(b) The source will not emit sulfur dioxide, carbon monoxide or nitrogen oxides at a rate of more than 9 9.0 pounds per hour for each pollutant emitted, without considering

pollution emission control equipment devices;

- (c) The source will not emit particulate matter or organic compounds at a rate of more than 5.7 pounds per hour for each pollutant emitted, without considering pollution emission control equipment devices;
- (cm) The source will not emit PM10 at a rate of more than 3.4 pounds per hour, without considering pollution emission control equipment devices;
- (d) The source will not emit lead at a rate of more than 0.13 pounds per hour, without considering pollution emission control equipment devices;
  - (e)1. Fluorides, 3 3.0 tons per year;
  - 5. Vinyl chloride, ± 1.0 ton per year.
- (f)1. The source's potential emissions at full capacity, without considering pollution emission control equipment devices, of any hazardous air contaminant listed in Table 1 or Table 4 of s. NR 445.04 are not greater than the emission rate listed in Table 1 or Table 4 of s. NR 445.04 for the air contaminant for the respective stack height;
- 2. The source manufactures or processes pesticides, rodenticides, insecticides, herbicides or fungicides and its potential emissions at full capacity, without considering pollution emission control equipment devices, of any hazardous air contaminant listed in Table 2 of s. NR 445.04 are not greater than the emission rate listed in the table for the air contaminant for the respective stack height;
  - 3. The source's potential emissions at full capacity,

without considering pollution emission control equipment devices, of any hazardous emission contaminant listed in Table 3 of s.

NR 445.04 do not exceed the emission rate contained in Table 3 of s.

NR 445.04; and

- (g) The source will not emit any air contaminant not mentioned in par. (b), (c), (d), (e) or (f), at a rate of more than 6 6.0 pounds per hour for each pollutant emitted, without considering pollution emission control equipment devices; and
  - (3) (title) DETERMINATION OF HAZARDOUS EMISSIONS.

SECTION 12. NR 406.04(7)(a), (b) and (c)1. and 5. are amended to read:

NR 406.04(7)(a) Emit sulfur dioxide, carbon monoxide or nitrogen oxides at a rate of more than 9 9.0 pounds per hour for each pollutant emitted, without considering pollution emission control equipment devices;

- (b) Emit particulate matter or organic compounds at a rate of more than 5.7 pounds per hour for each pollutant emitted, without considering pollution emission control equipment devices; or
  - (c) 1. Fluorides, 3 3.0 tons per year;
  - 5. Vinyl chloride, ± 1.0 ton per year.

#### SECTION 13. NR 419.07 is created to read:

#### NR 419.07 REMEDIATION OF CONTAMINATED SOIL OR WATER.

(1) APPLICABILITY. This section applies to all facilities and procedures used to remediate soil or water contaminated with

organic compounds which are direct air contaminant sources and to their owners and operators.

Note: Certain contaminated soils and water are hazardous wastes. Due to the "mixture" and "derived from" rules found in ch. NR 605, soils and water contaminated by listed hazardous waste under s. NR 605.09(2), Table II or III are also hazardous wastes. In addition, any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill of any material listed in Table IV or V of s. NR 605.09(3) is a listed hazardous waste. Soils, water, or other debris may also be considered hazardous waste when they exhibit a hazardous characteristic under s. NR 605.08, including the state extraction procedure toxicity test or under the federal toxicity characteristic leaching procedure test. Contaminated soils and water must be evaluated for the applicability of hazardous waste management rules (chs. NR 600 to 685). The requirements in chs. NR 600 to 685 for the treatment, handling and storage of hazardous waste must be followed if the contaminated soil or water is hazardous waste.

(2) SOIL AND WATER REMEDIATION PROCEDURE APPROVAL.(a)

Except as provided in sub. (3), no person may use any procedure
to remediate soil or water contaminated with organic compounds
unless the person has submitted a soil or water remediation
application form to the department's bureau of air management and
has received approval under this subsection.

Note: This rule only addresses approval by the bureau of air management. Approval may be required by other bureaus in the department including the bureau of solid and hazardous waste management.

- (b) The department's bureau of air management shall approve, conditionally approve or deny the application required in par.
- (a) within 5 business days of receipt of a complete application.
- (c) The department's bureau of air management may approve or conditionally approve the application required in par. (a) if the source:
- 1. Meets the emission limits in sub. (4) and the requirements in sub. (5);
  - 2. Will not be in such quantity, concentration or duration

as to be injurious to human health; and

- 3. Will not be in quantities which will substantially contribute to the exceeding of an ambient air quality standard, ambient air increment, or cause air pollution.
- (3) EXEMPTIONS. (a) Any person using one of the procedures listed in this paragraph is exempt from the requirement to apply for and obtain a remediation procedure approval under sub. (2) and is exempt from the emission limits specified in sub. (4) except those contained in ch. NR 445.
- 1. Installation and use of devices which remove organic compounds from a private or municipal potable water supply.
- 2. Installation and use of crop irrigation systems or dewatering wells to remediate contaminated water.
- 3. Installation and use of any technique or device to remediate soil or water contaminated with organic compounds as part of on-site actions taken under the authority of the comprehensive environmental response compensation and liability act of 1980, as amended, 42 U.S.C. s. 9601 et seq.
- 4. Pilot tests of negative pressure venting systems provided those tests are completed within 8 hours of start up and the air flow rate during the pilot test does not exceed 100 standard cubic feet per minute.
  - 5. Wastewater treatment plants.

Note: Wastewater treatment plants are not exempt from permit requirements.

(b) Any person using one of the following procedures is exempt from the emission limits specified in sub. (4) except for those contained in ch. NR 445:

- 1. Landfilling of contaminated soil or
- 2. Landspreading of contaminated soil.
- (4) EMISSION LIMITATIONS. (a) An owner or operator of a soil or water remediation project shall treat or dispose of soil or water contaminated with organic compounds in a manner approved by the department which minimizes the emission of organic compounds.
- (b) The organic compound emissions from the remediation of soil or water may not exceed 9.0 pounds of organic compounds per hour and any specific limit in ch. NR 445.
- (5) OTHER REQUIREMENTS. In addition to the other requirements of this section, a source shall meet the following requirements:

Note: Material which is hazardous waste shall comply with the requirements in chs. NR 600 to 685.

- (a) Storage of contaminated soil. Unless it is subject to storage requirements under chs. NR 500 to 599, soil contaminated with organic compounds which is being stored in open piles shall be underlaid and overlaid by a barrier which will prevent organic compound emissions and prevent the infiltration and exfiltration of water, and the piles shall be diked to keep run-off water from leaving the site.
- (b) Treatment of chlorinated organic compounds. 1. Except as provided in subd. 2., a thermal evaporation unit may not be used to remediate soil or water contaminated with chlorinated organic compounds unless an air pollution control permit has been issued to the source authorizing it to remediate soil or water contaminated with chlorinated organic compounds.

- 2. A thermal evaporation unit may remediate soil or water contaminated with gasoline which contains small amounts of chlorinated organic additives to the gasoline, even though the unit does not have a permit authorizing it to remediate soil or water contaminated with chlorinated organic compounds.
- (c) <u>Fuel requirements</u>. A thermal evaporation unit may not be used to remediate soils or water contaminated with organic compounds containing aromatic hydrocarbons while using a fuel which is contaminated with chlorinated organic compounds unless an air pollution control permit has been issued to the source allowing it to use the fuel contaminated with chlorinated organic compounds while remediating soils contaminated with aromatic hydrocarbons.
- (d) Requirements for asphalt plants to remediate soil. In addition to the other requirements of this section, the following requirements shall apply to all asphalt plants which remediate soil or water contaminated with organic compounds:
- 1. The asphalt plant shall have had a compliance stack test for particulate matter within the last 5 calendar years which determined that the particulate matter emission rate during the test did not exceed 0.04 grains per dry standard cubic foot (gr/dscf), not including backhalf condensible particulate matter.
- 2. The stack height shall be equal to or greater than 25 feet above grade.
- 3. If the asphalt plant is using a wet scrubber to control particulate matter emissions, the scrubber pond shall meet the requirements of ch. NR 213.

- 4. The asphalt plant shall have an air pollution control permit to operate which allows it to remediate soil or water containing organic compounds.
- 5. The asphalt plant shall be operating in compliance with its permit.
- (e) Objectionable odors. If objectionable odors, as determined under s. NR 429.03, are determined to result from the remediation, the source shall take preventive measures satisfactory to the department to abate or control such emissions.
- (6) TESTING REQUIREMENTS. Emissions from facilities for negative pressure venting of contaminated soil shall be tested using a test method approved in advance by the department's bureau of air management.
- (a) Testing under this subsection shall be conducted according to the following schedules:
- 1. Total organic compound emissions shall be tested once each day for the first 3 days of operation; weekly for the next 3 weeks; and monthly thereafter.
- 2. When benzene is present in the contaminated soil, benzene emissions shall be tested once during the first 3 days of operation, once during the third week of operation, and once every 6 months thereafter.
- (b) The test results shall be submitted to the department's bureau of air management as soon as possible after the completion of each test.
  - (c) Additional testing may be required by the department.

- (d) The testing required under par. (a) may be discontinued with written approval from the department's bureau of air management.
- (7) WAIVER. The department may waive compliance with any requirement of this section to the extent necessary to prevent an emergency condition which threatens public health, safety or welfare.

SECTION 15. NR 484.03(title), (intro.) and (3) are amended to read:

NR 484.03(title) CODE OF FEDERAL REGULATIONS AND OTHER MATERIALS IN CHS. NR 400 TO 404. The federal regulations or appendix materials in effect on June 30, 1988 and other materials listed in this section are incorporated by reference in for the corresponding sections of chs. NR 400 and 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, D.C. 20402, or from the organization listed in the applicable subsection.

(3) Appendices A to K of 40 C.F.R. part 50 for ss. NR 404.02(8) and 404.04(5) and (8)(b)3.

SECTION 16. NR 484.03(6) is created to read:

NR 484.03(6) ASTM D396-89a, Specification for Fuel Oils, for s. NR 400.02(80). Copies of this document may be obtained

from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

#### SECTION 17. NR 484.04 is created to read:

NR 484.04 CODE OF FEDERAL REGULATIONS AND OTHER MATERIALS IN CHS. NR 405 TO 418. The federal regulations or appendix materials in effect on July 1, 1988 and other materials listed in this section are incorporated by reference for the corresponding sections of chs. NR 405 to 418. 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 at the address noted in the corresponding subsection.

- (1) The code of federal regulations documents listed in this subsection may be purchased from the superintendent of documents, U.S. government printing office, Washington, D.C. 20402.
- (a) Section IV, Appendix S of 40 C.F.R. part 51 for s. NR 405.11(1)(e).
  - (b) Appendix B of 40 C.F.R. part 58 for s. NR 405.11(3).
- (2) Standard Industrial Classification Code Manual, 1972, as amended by the 1977 Supplement (U.S. government printing office stock numbers 4101-0066 and 003-005-00176-0, respectively) for s. NR 407.04(1)(a). The SIC Code Manual and Supplement may be purchased from the superintendent of documents, U.S. government printing office, Washington, D.C. 20402.
  - (3) Fundamentals of Smoke Abatement, December, 1950,

Ringlemann Chart, Information Circular 7588, U.S. bureau of mines, for s. NR 415.02(7). Copies may be obtained from the U.S. department of interior, Washington, D.C. 20240.

- (4) The following materials may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.
- (a) Guidelines on Air Quality Models (Revised) (OAQPS 1.2-080, U.S. environmental protection agency, office of air quality planning and standards, Research Triangle Park, N.C. 27711, July 1986) for s. NR 405.10(1).
- (b) Workbook for the Comparison of Air Quality Models (U.S. environmental protection agency, office of air quality planning and standards, Research Triangle Park, N.C. 27711, May 1978) for s. NR 405.10(5).
- (c) Federal Information Processing Standards Publication 8-5, 1984 October 31, Metropolitan Statistical Areas (including CMSAs, PMSAs, and NECMAs), U.S. department of commerce, national bureau of standards, for s. NR 406.02(3).
- (5) ASME standard number APS-1, second edition, November, 1968, copyright 1969, for ss. NR 415.06(1)(a), (b) and (c)1. and 417.04. Copies of standard number APS-1 may be obtained from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.
- (6) ASTM C136-76, Standard Method for Sieve Analysis of Fine and Coarse Aggregates, for s. NR 415.02(9). Copies may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103

(7) United States of America Standards Institute standard Z21.6, USA Standard Approval Requirements for Domestic Gas-Fired Incinerators, December 28, 1966, copyright 1967, for s. NR 415.07(1)(b)2. and (2)(a)4. Copies of this standard may be obtained from the American Gas Association Laboratories, 8501 East Pleasant Valley Road, Cleveland, OH 44131.

SECTION 18. NR 484.05(2) is renumbered (5).

SECTION 19. NR 484.05(2) to (4), (6) and (7) are created to read:

NR 484.05(2) National Bureau of Standards, Voluntary

Product Standard PS-59-73, Prefinished Hardwood Paneling, for s.

NR 422.02(7). Copies of this document may be obtained from the

National Institute of Standards and Technology, Quince Orchard

and Clopper Roads, Gaithersburg, MD 20899.

- (3) Recommended Industrial Ventilation Guidelines, U.S. department of health, education and welfare, national institute of occupational safety and health, 1976, for s. NR 421.04(3)(c)2. Copies may be obtained as PB-266 227 from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.
- (4) Industrial Ventilation: A Manual of Recommended Practice, 14th ed., American Conference of Governmental Industrial Hygienists, 1976, for s. NR 421.04(3)(c)1. Copies may be obtained from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48901.

- (6) American Petroleum Institute, Bulletin 2517,

  Evaporation Loss from Floating Roof Tanks, February, 1962 for s.

  NR 420.03(3)(c). Copies may be obtained from the American

  Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005.
- (7) The following materials may be purchased from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.
- (a) ASTM D396-73, Specification for Fuel Oils, for s. NR 420.03(1)(a).
- (b) ASTM D975-73, Specification for Diesel Fuel Oils, for s. NR 420.03(1)(a).
- (c) ASTM D2880-71, Specification for Gas Turbine Fuel Oils, for s. NR 420.03(1)(a).
- SECTION 20. NR 484.06(1)(title) is amended to read:

  NR 484.06(1)(title) APPENDICES OF 40 C.F.R. PART 60.
- SECTION 21. NR 484.06(1)(zk) to (zp) are renumbered (zl) to (zp) and (zk).
- SECTION 22. NR 484.06(2)(a) to (t) are renumbered (j), (c), (h), (f), (n), (s), (k), (g), (l), (q), (r), (b), (a), (t), (e), (d), (i), (o), (p) and (m), and (c), (l) and (t), as renumbered, are amended to read:
- (c) ASTM D1193-77, Standard Specification for Reagent Water, for 40 C.F.R. part 60, Appendix A, Method 6, par. 3.1.1., Method 7, par. 3.2.2., Method 7A, par. 3.2., Method 7C, par.

- 3.1.1, Method 7D, par. 3.1.1, Method 8, par. 3.1.3., Method 11, par. 6.1.3., Method 12, par. 4.1.3., and Method 13A, par. 6.1.2.
- (1) ASTM D3174-82, Standard Test Method for Ash in the Analysis Sample of Coal and Coke <u>from Coal</u>, for s. NR 439.07(2)(a)5.
- (t) ASTM D4294-83, Standard <u>Test</u> Method for Sulfur in Petroleum Products by Non-Dispersive X-Ray Fluorescence <del>Spectrometer</del> <u>Spectrometry</u>, for s. NR 439.07(2)(b) 2.

The foregoing rule was approved and adopted by the State of Wisconsin Natural Resources Board on March 28, 1991

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

Dated at Madison, Wisconsin \_\_\_\_

May 28, 1991

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

## RECEIVED

MAY 3 0 1991

Revisor of Statutes Bureau

Carroll D. Besadny, Secretary

(SEAL)

			N. T. Carlotte
		7. A.	
		en en en en Agrico. Os en	
	•		