
Rules of
Department of Natural Resources
Division 25—Hazardous Waste
Management Commission
Chapter 7—Rules Applicable to Owners/Operators
of Hazardous Waste Facilities

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**Title 10—DEPARTMENT OF
NATURAL RESOURCES
Division 25—Hazardous Waste
Management Commission
Chapter 7—Rules Applicable to
Owners/Operators of Hazardous
Waste Facilities**

10 CSR 25-7.010 Treatment Facilities
(Rescinded July 13, 1981)

AUTHORITY: sections 260.370, 260.375, 260.380, 260.390 and 260.395, RSMo 1978. Original rule filed July 16, 1979, effective Jan. 1, 1980. Amended: Filed Jan. 15, 1980, effective June 12, 1980. Rescinded: Filed March 13, 1981, effective July 13, 1981.

10 CSR 25-7.011 General Rules Applicable to All Hazardous Waste Facilities
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.375 and 260.390, RSMo 1978. Original rule filed March 13, 1981, effective July 13, 1981. Emergency amendment filed Nov. 4, 1981, effective Nov. 13, 1981, expired March 4, 1982. Amended: Filed Dec. 10, 1981, effective April 12, 1982. Amended: Filed Aug. 13, 1982, effective Jan. 14, 1983. Amended: Filed Dec. 13, 1983, effective June 18, 1984. Amended: Filed March 14, 1985, effective July 19, 1985. Amended: Filed April 16, 1985, effective Aug. 19, 1985. Rescinded: Filed Dec. 16, 1985, effective Oct. 6, 1986.

10 CSR 25-7.020 Incinerators
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.375, 260.380, 260.390 and 260.395, RSMo 1978. Original rule filed July 16, 1979, effective Jan. 1, 1980. Amended: Filed Jan. 15, 1980, effective June 12, 1980. Rescinded and readopted: Filed March 13, 1981, effective July 13, 1981. Rescinded and readopted: Filed Aug. 13, 1982, effective Jan. 14, 1983. Amended: Filed Jan. 13, 1983, effective May 13, 1983. Rescinded and readopted: Filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.030 Landfills
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.390, and 260.395, RSMo 1978. Original rule filed July 16, 1979, effective Jan. 1, 1980. Amended: Filed Jan. 15, 1980, effective June 12, 1980. Rescinded and readopted: Filed March 13, 1981. Rescinded and readopted: Filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.040 Land Treatment
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.390 and 260.395, RSMo 1978. Original rule filed July 16, 1979, effective Jan. 1, 1980. Amended: Filed Jan. 15, 1980, effective June 12, 1980. Rescinded and readopted: Filed March 13, 1981, effective July 13, 1981. Rescinded and readopted: Filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.050 Storage in Tanks and Containers
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.390 and 260.295, RSMo 1978. Original rule filed July 16, 1979, effective Jan. 1, 1980. Amended: Filed Jan. 15, 1980, effective June 12, 1980. Rescinded and readopted: Filed March 13, 1981, effective July 13, 1981. Amended: Filed Aug. 13, 1982, effective Jan. 14, 1983. Rescinded and readopted: Filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.060 Surface Impoundments
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.390 and 260.395, RSMo 1978. Original rule filed March 13, 1981, effective July 13, 1981. Rescinded and readopted: Filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.070 Treatment Facilities
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.390 and 260.395, RSMo 1978. Original rule filed March 13, 1981, effective July 13, 1981. Rescinded and readopted: Filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.080 Waste Piles
(Rescinded October 1, 1986)

AUTHORITY: sections 260.370, 260.390 and 260.395, RSMo 1978. Original rule filed Dec. 13, 1983, effective June 18, 1984. Rescinded: Filed Dec. 16, 1985, effective Oct. 1, 1986.

10 CSR 25-7.264 Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities

PURPOSE: This rule incorporates and modifies the federal regulations in 40 CFR part 264 by reference and sets forth additional state requirements.

PUBLISHER'S NOTE: The publication of the full text of the material that the adopting agency has incorporated by reference in this rule would be unduly cumbersome or expensive. Therefore, the full text of that material will be made available to any interested person at both the Office of the Secretary of State and the office of the adopting agency, pursuant to section 536.031.4, RSMo. Such material will be provided at the cost established by state law.

Editor's Note: EPA form 8700-22/MDNR-HWG 10 follows 10 CSR 25-7.270.

(1) The regulations set forth in 40 CFR part 264, July 1, 1997, as amended at 62 FR 64636 through 62 FR 64671, December 8, 1997, are incorporated by reference. Except as provided otherwise in this rule, the substitution of terms set forth in 10 CSR 25-3.260(1)(A) shall apply in this rule in addition to any other modification set forth in section (2) of this rule. Where conflicting rules exist in 10 CSR 25, the more stringent shall control. "Owner/operator," as defined in 10 CSR 25-3.260(2)(O)3., shall be substituted for any reference to "owner and operator" or "owner or operator" in 40 CFR part 264 incorporated in this rule.

(2) The owner/operator of a permitted hazardous waste treatment, storage or disposal facility shall comply with this section in addition to the regulations of 40 CFR part 264. In the case of contradictory or conflicting requirements, the more stringent shall control. (Comment: This section has been organized so that all Missouri additions, changes or deletions to any subpart of the federal regulations are noted within the corresponding subsection of this section. For example, the requirements to be added to 40 CFR part 264 subpart E are found in subsection (2)(E) of this rule.)

(A) Applicability. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart A.

1. A treatment permit is not required under this rule for a resource recovery process that has been certified by the department in accordance with 10 CSR 25-9.020. Storage of hazardous waste prior to resource recovery must be in compliance with this rule.

2. A permit is not required under this rule for an elementary neutralization unit or a wastewater treatment unit receiving only hazardous waste that is generated on-site or generated by its operator or only one (1) generator if the owner/operator, upon request, can demonstrate to the satisfaction of the department compliance with the requirements in 10 CSR 25-7.270(2)(A)3.

3. Hazardous waste which must be managed in a permitted unit (for example, waste generated on-site and stored beyond the time frames allowed without a permit pursuant to 10 CSR 25-5.262, waste received from off-site, certain hazardous waste fuels, etc.) shall not be stored or managed outside an area or unit which does not have a permit or interim status for that waste for a period which exceeds twenty-four (24) hours. This provision shall not apply to railcars held for the period allowed by, and managed in accordance with, 10 CSR 25-7.264(3) of this regulation. (Comment: The purpose of this paragraph is to allow necessary movement of hazardous waste into, out of, and through facilities, and not to evade permit requirements.)

4. 40 CFR 264.1(g)(11)(ii) is not incorporated into this rule.

(B) General Facility Standards. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart B.

1. The substitution of terms at 10 CSR 25-3.260(1)(A)1. does not apply to 40 CFR 264.12(a), incorporated by reference in this rule. In addition to the requirements in 40 CFR 264.12(a) incorporated in this rule, an owner/operator shall submit to the department a separate analysis for each hazardous waste that s/he intends to import. Each analysis shall contain the following information: the foreign generator's name, site address and telephone number; a list of applicable United States Environmental Protection Agency (EPA) waste codes and a percentage of each for each hazardous waste; the flash point determined in accordance with 40 CFR 261.21 incorporated by reference in 10 CSR 25-4; a list of reactive waste(s) as defined in 40 CFR 261.23 incorporated by reference in 10 CSR 25-4; and results of toxicity tests

conducted in accordance with 40 CFR 261.24 incorporated by reference in 10 CSR 25-4.261, if applicable.

2. Information describing the frequency and type of analysis performed on run off and leachate generated at the hazardous waste management units shall be included as part of the waste analysis plan required in 40 CFR 264.13(b) incorporated in this rule.

3. The comment following 40 CFR 264.18(a) is not incorporated in this rule.

(C) Preparedness and Prevention. (Reserved)

(D) Contingency Plan and Emergency Procedures. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart D.

1. The government official described in 40 CFR 264.56(d)(2) incorporated in this rule as the on-scene coordinator shall be contacted and further identified in the report as one (1) of the following:

A. The department's Emergency Response Coordinator (573) 634-2436 or (573) 634-CHEM;

B. The EPA Region VII Emergency Planning and Response Branch (913) 236-3778; or

C. The National Response Center identified in 40 CFR 264.56(d)(2), incorporated in this rule.

(E) Manifest System, Record Keeping and Reporting. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart E.

1. In addition to the requirements in 40 CFR 264.71(a)(1) and (2) and 40 CFR 264.71(b)(1) and (2) incorporated in section (1) of this rule, the owner/operator shall record the appropriate handling code(s) on the manifest as specified by the instructions for form 8700-22/MDNR-HWG 10.

2. As it becomes available, the following additional information shall be maintained in the operating record described in 40 CFR 264.73 incorporated in this rule until final closure, at which time the operating record shall be submitted to the department:

A. The information from each manifest shall be maintained in the operating record;

B. In addition to the requirements in 40 CFR 264.73(b)(2) incorporated in this rule, an owner/operator of a hazardous waste disposal facility shall record the location and quantity of each hazardous waste shipment on a map or diagram of each cell or disposal area with respect to a surveyed permanent benchmark and baseline;

C. In addition to the requirements in 40 CFR 264.73(b)(2) incorporated in this rule, an owner/operator of a facility which

has had a release or which has hazardous waste or hazardous waste constituent migration beyond the hazardous waste management unit shall record the locations and concentrations of contamination on a map or diagram with respect to a surveyed permanent benchmark and baseline;

D. If applicable, information regarding volumes, dates of removal and disposition of leachate removed from collection points shall be maintained in the operating record; and

E. A complete copy of the final, approved permit application, including all approved engineering plans, shall be maintained in the operating record.

3. The owner/operator of a hazardous waste management facility shall submit a report to the department as set forth in this paragraph.

A. All owners/operators shall comply with the manifest summary reporting requirements in 10 CSR 25-5.262(2)(D) regardless of whether the owner/operator is required to register as a generator pursuant to 10 CSR 25-5.262(2)(A)1.

B. In addition to the requirements in 10 CSR 25-5.262(2)(D) for hazardous waste generated on-site and shipped off-site for treatment, storage, resource recovery or disposal, the owner/operator shall meet the same requirements for the following:

(I) All hazardous waste generated on-site during the reporting period that is managed on-site; and

(II) All hazardous waste received from off-site during the reporting period, including hazardous waste generated by another generator and hazardous waste generated at other sites under the control of the owner/operator.

C. In addition to the information required in 10 CSR 25-5.262(2)(D), an owner/operator shall include the following information in the summary report:

(I) A description and the quantity of each hazardous waste that was both generated and managed on-site during the reporting period;

(II) For each hazardous waste that was received from off-site, a description and the quantity of each hazardous waste, the corresponding state and EPA identification numbers of each generator;

(III) For imports, the name and address of the foreign generator;

(IV) The corresponding method of treatment, storage, resource recovery, disposal or other approved management method used for each hazardous waste;



(V) The quantity and description of hazardous waste residue generated by the facility; and

(VI) A summary of both quantitative and qualitative groundwater monitoring data that was received during the reporting period, as required in 40 CFR part 264 subpart F incorporated in this rule and subsection (2)(F) of this rule. (Comment: This does not change the frequency of monitoring required by rules or in specific permit conditions. It only changes the frequency of reporting.)

(F) Releases From Solid Waste Management Units. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart F.

1. If the department determines that there is a significant risk to human health or the environment resulting from ground or surface water contamination from operation of any hazardous waste management facility or solid waste management unit, the department may condition the permit for a facility or unit; or upon issuance or reissuance or by modification of a permit, the department may require that an owner/operator of the facility comply with the requirements of this section. An owner/operator shall furnish to the department, within a reasonable time period, any information which the department requests to comply with this subsection.

2. In addition to requirements in 40 CFR 264.91(a)(3) and 40 CFR 264.100(e)(2) incorporated in this rule, the owner/operator shall document in the operating record all efforts taken to monitor groundwater or take corrective action beyond the facility boundary.

3. The facility permit will include, as described in 40 CFR 264.100(b) incorporated in this rule, a course of action to implement remedial procedures. The corrective action program may include, if necessary, closure of the appropriate units to prevent further leachate generation and transport.

4. This paragraph sets forth requirements for surface water monitoring.

A. The owner/operator is exempt from regulations under this paragraph if—

(I) S/he is exempted under this subsection and 40 CFR part 264 subpart F, incorporated in this rule; or

(II) The department finds based upon a demonstration by the owner/operator, that there is low potential for migration of liquid from the facility or unit to surface water bodies throughout the post-closure care period. This demonstration shall be certified by a registered geologist or professional engineer registered in Missouri; or

(III) The surface water runoff from the regulated unit(s) is being monitored in accordance with the facility's National Pollutant Discharges Elimination System (NPDES) or state operating stormwater discharge permit and the NPDES or state operating permit is substantially equivalent to that which would otherwise be required under this section.

B. An owner/operator shall establish a surface water monitoring program, except as provided otherwise in subparagraph (2)(F)4.A. of this rule. This program shall be designed to protect human health and the environment. The owner/operator, at a minimum, shall fulfill the following requirements:

(I) The surface water monitoring system shall consist of a sufficient number of points at appropriate locations to yield surface water samples that—

(a) Represent the quality of background surface water that has not been affected by any contamination from the facility (for example, upgradient); and

(b) Represent the quality of surface water hydrologically downgradient of the facility or regulated units;

(II) The surface water monitoring program must include consistent sampling and analysis procedures that are designed to ensure monitoring results which provide a reliable indication of surface water quality at the facility and changes in the water quality due to the impact of the facility or regulated units;

(III) The owner/operator shall report to the department the surface water analysis by including it in the routine reports required by part (2)(E)3.C.(VI) of this rule; and

(IV) If the department determines, based upon the findings in the reports submitted under part III of this subparagraph, that there is a substantial threat to human health or the environment, it will direct the owner/operator, through modification of the facility permit, to take corrective and preventative measures.

5. The department may require additional monitoring to protect human health and the environment.

(G) Closure and Post-Closure. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart G.

1. The incorporation by reference of 40 CFR 264.113(d) and (e) does not relieve the owner/operator of his/her responsibility to comply with 10 CSR 80.

2. The owner/operator of a hazardous waste unit which is certifying closure with residues left in place, regardless of the level

of treatment to render the residue nonhazardous, shall meet the requirements in 40 CFR 264.116 incorporated in this rule.

3. In addition to requirements in 40 CFR 264.116, when an owner/operator certifies a closure which did not result in the removal of wastes to background levels, the owner/operator shall record, in accordance with state law, a notation on an instrument which is normally examined during title search that in perpetuity will notify any potential purchaser of the property that the land has been used to manage hazardous waste.

4. In addition to requirements in 40 CFR 264.116 and 264.119 as incorporated in this rule, an owner/operator shall submit a notarized statement to the department certifying that the owner/operator has caused the notation(s) to be recorded. The notation shall be recorded with the recorder(s) of deeds in all counties in which the facility is located.

(H) Financial Assurance Requirements. This subsection sets forth the requirements which modify or add to those requirements in 40 CFR part 264 subpart H.

1. For purposes of this subsection, commercial treatment, storage or disposal (TSD) facility means any facility that would be considered a commercial hazardous waste TSD facility for the purposes of 10 CSR 25-12.020, or any facility that is certified as an R2 resource recovery facility according to 10 CSR 25-9.020, or any facility that receives for remuneration polychlorinated biphenyls (PCB) material or PCB units as defined by 10 CSR 25-13.010.

2. In 40 CFR 264.143(a)(3) incorporated by reference in this rule, delete "the term of the initial RCRA permit" and insert in its place "a period of five (5) years, beginning with the date the permit is issued."

3. In 40 CFR 264.145(a)(3) incorporated by reference in this rule, delete "the term of the initial RCRA permit" and insert in its place "a period of five (5) years, beginning with the date the permit is issued."

4. This paragraph modifies the requirements for surety bonds guaranteeing payment into a closure trust fund or post-closure trust fund per 40 CFR 264.143(b) or 40 CFR 264.145(b), incorporated in this rule.

A. Any surety company issuing a surety bond guaranteeing payment into a closure trust fund or post-closure trust fund shall be authorized to do business in Missouri.

B. Any surety company issuing a surety bond guaranteeing payment into a closure trust fund or post-closure trust fund shall not cancel, terminate, or fail to renew a surety bond guaranteeing payment into a closure or post-closure trust fund and the surety bond

shall remain in full force and effect in the event that on or before the date of cancellation:

- (I) The director deems the facility abandoned; or
- (II) The permit is terminated or revoked, or a new permit is denied; or
- (III) Closure is ordered by the department or a court of competent jurisdiction; or
- (IV) The owner/operator is named as a debtor in a voluntary or involuntary proceeding under 11 U.S.C. section 1, et seq.; or
- (V) The premium due is paid; or
- (VI) An appeal of an order to close the facility as specified in part (4)(H)4.B.(III) of this subparagraph is pending.

C. Facilities that have a surety bond or bond(s) guaranteeing payment into a closure trust fund or a post-closure trust fund as of the effective date of this subparagraph shall modify their surety instruments to comply with this paragraph within twelve (12) months of the effective date of this subparagraph.

5. This paragraph modifies the requirements for surety bonds guaranteeing performance of closure or performance of post-closure care per 40 CFR 264.143(c) or 40 CFR 264.145(c), incorporated in this rule.

A. A surety company issuing a surety bond for closure or post-closure performance shall be authorized to do business in Missouri.

B. Any surety company issuing a surety bond for closure or post-closure performance shall not cancel, terminate, or fail to renew a surety bond guaranteeing performance of closure or post-closure care and the surety bond shall remain in full force and effect in the event that on or before the date of cancellation:

- (I) The director deems the facility abandoned; or
- (II) The permit is terminated or revoked, or a new permit is denied; or
- (III) Closure is ordered by the department or a court of competent jurisdiction; or
- (IV) The owner/operator is named as a debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), *United States Code*; or
- (V) The premium due is paid; or
- (VI) An appeal of an order to close the facility as specified in part (4)(H)5.B.(III) of this subparagraph is pending.

C. Facilities that have a surety bond or bonds guaranteeing performance of closure or performance of post-closure care as of the effective date of this subparagraph shall

modify their surety instruments to comply with this paragraph within twelve (12) months of the effective date of this subparagraph.

6. This paragraph modifies the requirements for letters of credit per 40 CFR 264.143(d), 40 CFR 264.145(d), and 40 CFR 264.147(h), incorporated in this rule. Letters of credit shall be issued by a state- or federally-chartered and regulated bank or trust association. If the issuing institution is not located in Missouri, a bank or trust association located in Missouri shall confirm the letter of credit and the confirmation and the letter of credit shall be filed with the department.

7. An owner/operator of a facility that is a commercial TSD facility may not satisfy financial assurance requirements for closure, post-closure or liability coverage, or any combination of these, by the use of a financial test as specified in 40 CFR 264.143(f), 40 CFR 264.145(f), or 264.147(f), incorporated in this rule.

8. This paragraph modifies the requirements for closure insurance per 40 CFR 264.143(e) incorporated in this rule, post-closure insurance per 40 CFR 264.145(e) incorporated in this rule, liability coverage for sudden accidental occurrences per 40 CFR 264.147(a)(1) incorporated in this rule, and liability coverage for non-sudden accidental occurrences per 40 CFR 264.147(b)(1), incorporated in this rule. Each insurance policy shall be issued by an insurer which, at a minimum, is licensed to transact the business of insurance or is eligible to provide insurance as an excess or surplus lines insurer in Missouri.

9. In 40 CFR 264.143(f) incorporated in this rule, delete "or a firm with a 'substantial business relationship' with the owner or operator."

10. In 40 CFR 264.145(f) incorporated in this rule, delete "or a firm with 'a substantial business relationship' with the owner or operator."

11. In 40 CFR 264.147(g) incorporated in this rule, delete "or a firm with a 'substantial business relationship' with the owner or operator."

(I) Containers. This subsection sets forth requirements in addition to 40 CFR part 264 subpart I incorporated in this rule.

1. An owner/operator of a facility which treats hazardous waste in containers shall meet the requirements of 40 CFR 264.601-264.603 incorporated in this rule and subsection (2)(X) of this rule.

2. Containers storing hazardous waste must be marked and labeled in accordance

with 10 CSR 25-5.262(2)(C) during the entire storage period.

3. Container storage areas which close without removing all hazardous waste and/or hazardous waste constituents to below background levels may pursue either a risk-based closure if there is no evidence of groundwater or surface water contamination or in the absence of such evidence, close in accordance with 10 CSR 25-7.264(2)(N) and 40 CFR part 264 subpart N as incorporated in subsection (2)(N). The owner/operator shall also comply with the requirements of 10 CSR 25-7.264(2)(G).

4. Containers holding ignitable or reactive waste that are stored outdoors or in buildings not equipped with sprinkler systems shall be located at least fifty feet (50') from the facility's property line.

5. Containers holding ignitable or reactive waste that are stored indoors shall be located at least fifty feet (50') from the facility's property line unless the following requirements are satisfied:

A. Exposing walls that are located more than ten feet (10') but less than fifty feet (50') from a boundary line of adjoining property that can be built upon shall have a fire-resistance rating of at least two (2) hours, with each opening protected by an automatically-closing listed one and one-half (1.5) hour (B) fire door;

B. Exposing walls that are located less than ten feet (10') from a boundary line of adjoining property, that can be built upon shall have a fire-resistance rating of at least four (4) hours, with each opening protected by an automatically-closing listed three (3)-hour (A) fire door (Comment: All fire doors, closure devices and windows shall be installed in accordance with the National Fire Protection Agency (NFPA) Code 80, *Standards for Fire Doors and Windows*) 1995 edition;

C. The construction design of exterior walls shall provide ready accessibility for fire fighting operations through the provision of access openings, windows or lightweight noncombustible wall panels;

D. Container storage areas shall be provided with automatic fire suppression systems designed and installed in accordance with the NFPA 14 (1996 edition), NFPA 15 (1996 edition), NFPA 16 (1995 edition), NFPA 16A (1994 edition), NFPA 17 (1998 edition), NFPA 17A (1998 edition), NFPA 18 (1995 edition), NFPA 20 (1996 edition), NFPA 22 (1996 edition), and NFPA 24 (1995 edition) standards. Final design of these systems shall be approved by an independent, qualified, registered professional engineer in Missouri;



E. Each container storage area shall have preconnected hose lines capable of reaching the entire area. The fire hose shall be either a one and one-half (1.5)-inch line or a one-inch (1") hard rubber line. Where a one and one-half (1.5)-inch fire hose is used, it shall be installed in accordance with NFPA 14 (1996 edition). Hand-held fire extinguishers rated for the appropriate class of fire shall be available at each storage area;

F. Only containers meeting the requirements of, and containing products authorized by, Chapter I, Title 49 of the *Code of Federal Regulations* (DOT Regulations) or NFPA 386, *Standard for Portable Shipping Tanks* shall be used;

G. All storage of ignitable or reactive materials shall be organized in a manner which will not physically obstruct a means of egress. Materials shall not be placed in a manner that a fire would preclude egress from the area. Evacuation plans shall recognize the locations of any automatically-closing fire doors;

H. All containers shall be arranged so there is a minimum aisle space of four feet (4') between rows, allowing accessibility to each individual container. Double rows can be utilized. Containers shall not be stacked or placed closer than three feet (3') from ceilings or any roof members, or both; and

I. Explosive gas levels in the facility shall be monitored continuously. If the facility is not manned twenty-four (24) hours per day, a telemetry system shall be provided to alarm designated response personnel.

(J) Tanks. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 264 subpart J.

1. Hazardous waste that has a true vapor pressure of greater than seventy-eight millimeters of mercury (78 mm Hg) at twenty-five degrees Celsius (25°C) is considered to be volatile and shall not be placed in an open tank.

2. 40 CFR 264.190(c) is not incorporated by reference.

3. In 40 CFR 264.193(g) incorporated in this rule, delete "or that in the event of a release that does migrate to ground water or surface water, no substantial present or potential hazard will be posed to human health or the environment." 40 CFR 264.193(g)(2) and its subdivisions are not incorporated in this rule.

4. For purposes of 40 CFR 264.193(h) incorporated in this rule, "variance" means exception.

5. In 40 CFR 264.196(c) and 40 CFR 264.196(c)(1) incorporated in this rule, delete "visible" and "visual." Tank storage areas which close without removing all haz-

ardous waste and/or hazardous waste constituents to below background levels may pursue either a risk-based closure if there is no evidence of groundwater or surface water contamination or in the absence of such evidence, close in accordance with 10 CSR 25-7.264(2)(N) and 40 CFR part 264 subpart N as incorporated in subsection (2)(N). The owner/operator shall also comply with the requirements of 10 CSR 25-7.264(2)(G).

6. An owner/operator of a facility which treats hazardous waste in a tank system shall meet the requirements of 40 CFR 264.601-40 CFR 264.603 incorporated in this rule and subsection (2)(X) of this rule.

(K) Surface Impoundments. This subsection sets forth standards and requirements which modify or add to those requirements in 40 CFR part 264 subpart K.

1. Design and operating requirements are as follows:

A. Any existing surface impoundment or existing portion of a surface impoundment shall be replaced with a new surface impoundment in compliance with 40 CFR part 264 subpart K, incorporated in this rule, and this subsection prior to permit issuance;

B. Each new surface impoundment shall be constructed with a double liner as required in 40 CFR 264.221(c), incorporated in this rule, and subparagraphs (2)(K)1.C. and D. of this rule;

C. The lower component of the composite liner required by 40 CFR 264.221(c) shall, at a minimum, consist of at least three feet (3') of clay, recompacted to ninety-five percent (95%) of Standard Proctor Density with the moisture content between two percent (2%) below and four percent (4%) above the optimum moisture content. The soils used for this purpose shall meet the following minimum specifications:

(I) Be classified under the United Soil Classification Systems as CL, CH or SC (American Society for Testing and Materials (ASTM) Standard D2487-93, current edition approved September 15, 1993, published November 1993);

(II) Allow more than thirty percent (30%) passable through a No. 200 sieve (ASTM Test D1140-54 (reapproved 1971), current edition approved September 15, 1954);

(III) Have a liquid limit equal to or greater than thirty (30) (ASTM Test D4318-95a, current edition approved December 10, 1995, published April 1996);

(IV) Have a plasticity index equal to or greater than fifteen (15) (ASTM Test D4318-95a, as previously referenced in this rule); and

(V) Have a coefficient of permeability equal to or less than 1×10^{-8} cm/sec when compacted to ninety-five percent (95%) of Standard Proctor Density with the moisture content between two percent (2%) below and four percent (4%) above the optimum moisture content, and when tested by using the indirect calculation from the one (1)-dimensional consolidation test for clay rich soils (ASTM D2435-96, current edition approved June 10, 1996, published August 1996) or other procedures approved by the department;

D. The leak detection system required by 40 CFR 264.221(c)(2) shall cover the entire sides and bottom of the surface impoundment.

E. When liquids are detected in the leak detection system installed to comply with subparagraph (2)(K)1.D. of this rule and 40 CFR 264.221(c)(2), the owner/operator shall—

(I) Notify the department in writing within thirty (30) days of the event;

(II) Continue to operate and maintain the leak detection system so that the liquids are removed as they accumulate or with sufficient frequency to prevent backwater within the system; and

(III) Implement leachate monitoring in accordance with paragraph (2)(K)1.F. of this rule and the facility permit;

F. This paragraph sets forth requirements for leachate monitoring at surface impoundments. An owner/operator that is required under subparagraph (2)(K)1.E. of this rule to initiate leachate monitoring shall comply with parts (2)(K)1.F.(I)—(IV) of this rule.

(I) The owner/operator shall remove any accumulated leachate in the leak detection system collection sumps at least weekly during the active life and closure period. After the final cover is installed, accumulated leachate shall be removed at least as often as the owner/operator is required by 40 CFR 264.226(d)(2) to record the amount of liquids removed from the system.

(II) The owner/operator shall analyze the leachate at least annually. At a minimum, the annual leachate analyses shall be conducted for indicator parameters (that is pH, specific conductance, dissolved organic carbon and total organic halogen) and selected hazardous waste constituents. The hazardous waste constituents selected must provide a reliable indication of the presence of hazardous constituents that are reasonably expected to be in or derived from wastes contained in each unit.

(III) The owner/operator shall calculate the average daily flow rate for each

sump as required by 40 CFR 264.222(b). If the department determines that the leachate generation rate is greater than reasonably expected for any unit, the department may require the owner/operator to provide additional information to evaluate the existing conditions.

(IV) In accordance with subsection (2)(E) of this rule and 40 CFR part 264 subpart E incorporated in this rule, the owner/operator shall submit to the department all information required to comply with parts (2)(K)1.F.(I)–(III) of this rule.

(V) The department may require more frequent leachate collection and analysis than that outlined in parts (2)(K)1.F.(I)–(III) of this rule if determined necessary. The frequency of leachate collection and analysis will be specified in the facility permit.

(VI) Indicator parameters and constituents to be monitored as required by part (2)(K)1.F.(II) of this rule will be specified by the department in the facility permit. If the department determines that results of the chemical analyses are outside of the range that is reasonably expected for any unit, the department may require the owner/operator to provide additional information to evaluate the existing conditions;

G. The owner/operator shall measure daily precipitation at the facility until final closure is certified. During the post-closure care period of the facility, the owner/operator shall also record and report regional precipitation from the nearest weather recording station in accordance with the schedule established for the maintenance of the facility. The information required under this paragraph shall be submitted to the department in accordance with subsection (2)(E) of this rule and 40 CFR part 264 subpart E incorporated in this rule; and

H. If the leachate monitoring (implemented in accordance with subparagraph (2)(K)1.F. of this rule) detects hazardous waste(s) constituents in the leak detection system, a leak in the surface impoundment liner is indicated and the owner/operator shall—

(I) Within seven (7) days after detecting the leak, notify the department in writing of the leak;

(II) Remove, within the period of time specified in the permit, accumulated liquid, repair or replace the leaking liner to prevent the migration of hazardous waste liquids through the liner and obtain a certification from a registered professional engineer that, to the best of his/her knowledge and opinion, the leak has been stopped; and

(III) Obtain, after performing the necessary repairs, written approval from the

department prior to placing the surface impoundment in service again.

2. Those surface impoundments which are intended to be closed without removing the hazardous waste shall meet the requirements of subparagraph (2)(N)1.A. and 40 CFR part 264 subpart N, incorporated in this rule. If the site cannot meet these requirements and contamination exists beyond the liner of the surface impoundment, the owner/operator shall clean up contaminated residues and hazardous constituents to the greatest extent practical during closure. If the department determines, based on the potential impact on human health and the environment, that it is not necessary or feasible to remove contaminated material down to background concentrations during closure, the owner/operator shall—

A. Comply with subsection 40 CFR 264.228(b) incorporated in this rule; or

B. Submit and obtain approval for a delisting petition pursuant to 40 CFR 260.20 and 40 CFR 260.22 for the contaminated material not removed during closure.

3. An owner/operator of a facility which treats hazardous waste in a surface impoundment shall meet the requirements of 40 CFR 264.601—40 CFR 264.603 incorporated in this rule and subsection (2)(X) of this rule.

(L) Waste Piles. This subsection sets forth standards which modify or add to those requirements in 40 CFR part 264 subpart L.

1. In addition to the requirements in 40 CFR part 264.250(c) incorporated in this rule, the waste pile must be at least ten feet (10') above the historical high groundwater table to be exempt from the regulatory requirements in 40 CFR 264.251 incorporated in this rule, 40 CFR part 264 subpart F incorporated in this rule and subsection (2)(F) of this rule.

2. Design and operating requirements are as follows:

A. Any existing waste pile or existing portion of a waste pile shall be replaced with a new waste pile in compliance with 40 CFR 264 subpart L, incorporated in this rule, and this subsection prior to permit issuance;

B. Each new waste pile shall be constructed with a double liner as required in 40 CFR 264.251(c), incorporated in this rule, and subparagraphs (2)(L)2.C. and D. of this rule;

C. The lower component of the composite liner required by 40 CFR 264.251(c), at a minimum, shall consist of at least three feet (3') of clay, recompact to ninety-five percent (95%) of Standard Proctor Density with the moisture content between two percent (2%) below and four percent (4%) above the optimum moisture content. The soils used

for this purpose shall meet the following minimum specifications:

(I) Be classified under the United Soil Classification Systems as CL, CH, or SC (ASTM Standard D2487-93, as previously referenced in this rule);

(II) Allow more than thirty percent (30%) passable through a No. 200 sieve (ASTM Test D1140, as previously referenced in this rule);

(III) Have a liquid limit equal to or greater than thirty (30) (ASTM Test D4318-95a, as previously referenced in this rule);

(IV) Have a plasticity index equal to or greater than fifteen (15) (ASTM Test D4318-95a, as previously referenced in this rule); and

(V) Have a coefficient of permeability equal to or less than 1×10^{-8} cm/sec when compacted to ninety-five percent (95%) of Standard Proctor Density with the moisture content between two percent (2%) below and four percent (4%) above the optimum moisture content, and when tested by using the indirect calculation from the one (1) dimensional consolidation test for clay rich soils (ASTM D2435-96, as previously referenced in this rule) or other procedures approved by the department;

D. The leak detection system required by 40 CFR 264.251(c)(3) shall be capable of detecting leaks from the entire area of the waste pile;

E. When liquids are detected in the leachate collection/removal system installed to comply with 40 CFR 264.251(c)(2), the owner/operator shall—

(I) Notify the department in writing within thirty (30) days of the event;

(II) Continue to operate and maintain the leachate collection/removal and leak detection systems so that the liquids are removed as they accumulate or with sufficient frequency to prevent backwater within the system; and

(III) Implement leachate monitoring in accordance with subparagraph (2)(L)2.F. of this rule and the facility permit;

F. This paragraph sets forth requirements for leachate monitoring at waste piles. An owner/operator that is required under subparagraph (2)(L)2.E. to initiate leachate monitoring shall comply with parts (2)(L)2.F.(I)–(IV) of this rule.

(I) The owner/operator shall remove any accumulated leachate in the leachate collection/removal and leak detection system collection sumps at least weekly during the active life and closure period. After the final cover is installed, accumulated leachate shall be removed at least as often

as the owner/operator is required by subparagraph (2)(L)3.A. of this rule to record the amount of liquids removed from the system.

(II) The owner/operator shall analyze leachate from the leak detection system at least annually. If leachate has not yet been discovered in the leak detection system, the annual analysis shall be completed on leachate collected from the leachate collection/removal system. At a minimum, the annual leachate analyses shall be conducted for indicator parameters (that is pH, specific conductance, dissolved organic carbon and total organic halogen) and selected hazardous waste constituents. The hazardous waste constituents selected must provide a reliable indication of the presence of hazardous constituents that are reasonably expected to be in or derived from wastes contained in each unit.

(III) The owner/operator shall calculate the average daily flow rate for each sump in the leak detection system as required by 40 CFR 264.252(b), in addition the average daily flow rate for each sump calculated in a similar manner. If the unit is closed in accordance with 40 CFR 264.258(b), the average daily flow rates shall be calculated at the same frequency as the recording of leachate removal as required by subparagraph (2)(L)3.B. of this rule. If the department determines that the leachate generation rate is greater than reasonably expected for any unit, the department may require the owner/operator to provide additional information to evaluate the existing conditions.

(IV) The owner/operator shall submit all information required to comply with parts (2)(L)2.F.(I)—(III) of this rule to the department in accordance with subsection (2)(E) of this rule and 40 CFR part 264 subpart E incorporated in this rule.

(V) The department may require more frequent leachate collection and analysis than that outlined in parts (2)(L)2.F.(I)—(III) of this rule if determined necessary. The frequency of leachate collection and analysis will be specified in the facility permit.

(VI) Indicator parameters and constituents to be monitored, as required by part (2)(L)2.F.(II) of this rule, will be specified by the department in the facility permit. If the department determines that results of the chemical analyses are outside of the range that is reasonably expected for any unit, the department may require the owner/operator to provide additional information to evaluate the existing conditions;

G. The owner/operator shall measure daily precipitation at the facility until final closure is certified. During the post-closure care period of the facility, the owner/operator

shall also record and report regional precipitation from the nearest weather recording station in accordance with the schedule established for the maintenance of the facility. The information required under this paragraph shall be submitted to the department in accordance with subsection (2)(E) of this rule and 40 CFR part 264 subpart E incorporated in this rule; and

H. If the leachate monitoring (implemented in accordance with subparagraph (2)(L)2.F. of this rule) detects hazardous waste constituents in the leak detection system, a leak in the waste pile liner is indicated and the owner/operator shall—

(I) Notify the department in writing of the leak within seven (7) days after detecting the leak;

(II) Remove, within the period of time specified in the permits, accumulated liquid, repair or replace the leaking liner to prevent the migration of hazardous waste liquids through the liner and obtain a certification from a registered professional engineer that, to the best of his/her knowledge and opinion, the leak has been stopped; and

(III) Obtain, after performing the necessary repairs, written approval from the department prior to placing the waste pile in service again.

3. This paragraph sets forth standards which modify or add to those requirements in 40 CFR 264.254(c) for monitoring and inspection.

A. In addition to recording the amount of liquids removed from each leak detection system sump at least once per week during the active live and closure period, the owner/operator shall record the amount of liquids removed from each leachate collection/removal system sump at the same frequency.

B. If the waste pile is closed in accordance with 40 CFR 264.258(b), following closure the amount of liquids removed from each leachate collection/removal and leak detection system sump shall be recorded at least monthly. If the liquid level in the sump stays below the pump operating level for two (2) consecutive months, the amount of liquids in the sump must be recorded at least quarterly. If the liquid level in the sump stays below the pump operating level for two (2) consecutive quarters, the amount of liquids in the sump shall be recorded at least semiannually. If at any time during the post-closure care period the pump operating level is exceeded at units on quarterly or semiannual recording schedules, the owner/operator must return to monthly recording of amounts of liquids removed from each sump until the liq-

uid level again stays below the pump operating level for two (2) consecutive months.

(M) Land Treatment. (*Reserved*)

(N) Landfills. This subsection sets forth standards which modify or add to those requirements in 40 CFR part 264 subpart N.

1. This paragraph sets forth standards for a site suitability demonstration.

A. Location standards.

(I) A landfill shall be located so as to minimize discharges and the potential for harm to human health and the environment.

(II) A landfill shall be located so that a total of no less than thirty feet (30') of soil or other material, which has a coefficient of permeability of less than 1×10^{-7} cm/sec, when tested according to subpart (2)(N)1.B.(II)(d) of this rule, lies between the bottom of the lowest artificial liner or lowest engineered soil liner and the uppermost regional aquifer.

(III) The requirements of part (2)(N)1.A.(II) of this rule do not apply to a landfill which meets the following criteria:

(a) Demonstrates to the satisfaction of the department by a combination of laboratory tests, field test and development of models that naturally occurring materials between the lowest artificial liner or lowest engineered soil liner and the uppermost regional aquifer would retard the migration of hazardous constituents contained in the waste to at least the same degree that thirty feet (30') of material having a coefficient of permeability of 1×10^{-7} cm/sec when tested according to subpart (2)(N)1.B.(II)(d) would retard the migration of water, but in no case shall the thickness of the naturally occurring material be less than twenty feet (20');

(b) Receives only wastes generated by its operator(s); and

(c) Meeting the criteria in subparts (2)(N)1.A.(III)(a) and (b) shall not waive compliance with any regulations except those set forth in part (2)(N)1.A.(II) of this rule.

(IV) No landfill shall be located in the following areas:

(a) In a wetland;

(b) Within two hundred feet (200') of a fault which has had surface displacement in Holocene time;

(c) In a one hundred (100)-year flood plain;

(d) In an area of unstable soil deposits or area(s) containing landslides; or

(e) In an area subject to catastrophic collapse as evaluated by the Division of Geology and Land Survey.

B. The permit application shall include the following engineering reports:

(I) A geologic description of the region in which the site is located, which description shall be prepared by a qualified geologist familiar with the region;

(II) A description of the natural soils and bedrock underlying the site including a representative number of borings that indicate the type, depth and thickness of soils, bedrock and other materials underlying the site and test results that indicate the following parameters for soils or other materials underlying the site. The following test methods shall be utilized unless other procedures have been evaluated and approved by the department:

(a) Atterberg limits (ASTM D4318-95a, as previously reference in this rule);

(b) pH (*Methods of Soil Analysis Part II, Chemical and Microbiological Properties*, A.L. Page, Ed. American Society of Agronomy, 2nd Ed., 1982, pp. 200—209);

(c) Maximum dry density at optimum moisture content (ASTM D1557-91, current edition approved November 18, 1991, published January 1992);

(d) Coefficient of permeability, which is the indirect calculation from the one (1)-dimensional consolidation test for clay rich soils (ASTM D2435-96, as previously referenced in this rule) or other laboratory procedures found in the professional literature and approved by the department;

(e) Grain size distribution, Unified Soil Classification System designation (ASTM Standards D2487-93, as previously referenced in this rule and D422-63 (reapproved 1990) current edition approved November 21, 1963); and

(f) Cation exchange capacity (*Methods of Soil Analysis Part II, Chemical and Microbiological Properties*, A.L. Page, Ed., American Society of Agronomy, 2nd Ed., 1982, pp. 149—157);

(III) A hydrogeologic study conducted at the site to determine the potential for transport of groundwater and contaminants. This study shall include:

(a) Piezometric contours of groundwater;

(b) Potential direction(s) of groundwater movement and estimated rate(s);

(c) Identification and description of the aquifer(s);

(d) Background water quality data; and

(e) Field permeability tests as found in the professional literature and approved by the department;

(IV) A present water balance which shall be determined as outlined in *Use of the Water Balance Method for Predicting*

Leachate Generation from Solid Waste Disposal Sites, EPA/530/SW-168 or an equivalent method approved by the department;

(V) Engineering and geologic drawings that delineate—

(a) Typical disposal cells for each hazardous waste type;

(b) Structures for surface water control;

(c) Locations of borings and monitoring systems;

(d) Leachate collection systems, bottom elevations and cover elevations for each disposal area; and

(e) Stratigraphic cross-sections of the geologic setting showing, at a minimum, boring locations and depths, trench design and depths and piezometric surfaces and water tables where present; and

(VI) Any other applicable details.

2. This paragraph sets forth additional design and operating requirements.

A. Any existing landfill or existing portion of a landfill shall be replaced with a new landfill in compliance with 40 CFR part 264 subpart N, incorporated in this rule, and this subsection prior to permit issuance;

B. Each new landfill shall be constructed with a double liner as required in 40 CFR 264.301(c), incorporated in this rule, and subparagraphs (2)(N)2.C. of this rule;

C. The lower component of the composite liner required by 40 CFR 264.301(c), at a minimum, shall consist of at least three feet (3') of clay, recompact to ninety-five percent (95%) of Standard Proctor Density with the moisture content between two percent (2%) below and four percent (4%) above the optimum moisture content. The soils used for this purpose shall meet the following minimum specifications:

(I) Be classified under the United Soil Classification Systems as CL, CH or SC (ASTM Standard D2487-93, as previously referenced in this rule);

(II) Allow more than thirty percent (30%) passable through a No. 200 sieve (ASTM Test D1140, as previously referenced in this rule);

(III) Have a liquid limit equal to or greater than thirty (30) (ASTM Test D4318-95a, as previously referenced in this rule);

(IV) Have a plasticity index equal to or greater than fifteen (15) (ASTM Test D4318-95a, as previously referenced by this rule); and

(V) Have a coefficient of permeability equal to or less than 1×10^{-8} cm/sec when compacted to ninety-five percent (95%) of Standard Proctor Density with the moisture content between two percent (2%) below

and four percent (4%) above the optimum moisture content, and when tested by using the indirect calculation from the one (1)-dimensional consolidation test for clay rich soils (ASTM D2435-96, as previously referenced by this rule) or other procedures approved by the department;

D. Each detection or collection and removal system shall meet the requirements of 40 CFR 264.301(c)(3)(I)—(V), incorporated in this rule.

E. The leak detection system required by 40 CFR 264.301(c)(3) shall be capable of detecting leaks from the entire sides and bottom of each cell.

F. When liquids are detected in the leachate collection/removal system installed to comply with 40 CFR 264.301(c)(2), the owner/operator shall—

(I) Notify the department in writing within thirty (30) days of the event;

(II) Continue to operate and maintain the leachate collection/removal and leak detection systems so that the liquids are removed as they accumulate or with sufficient frequency to prevent backwater within the system; and

(III) Implement leachate monitoring in accordance with subparagraph (2)(N)2.G. of this rule and the facility permit;

G. This paragraph sets forth requirements for leachate monitoring at landfills. An owner/operator that is required under subparagraph (2)(N)2.F. to initiate leachate monitoring shall comply with parts (2)(N)2.G.(I)—(V) of this rule.

(I) The owner/operator shall remove any accumulated leachate in the leachate collection/removal and leak detection system collection sumps at least weekly during the active life and closure period. After the final cover is installed, accumulated leachate shall be removed at least as often as the owner/operator is required by 40 CFR 264.303(c)(2) to record the amount of liquids removed from the systems.

(II) The owner/operator shall analyze leachate from the leak detection system at least annually. If leachate has not yet been discovered in the leak detection system, the annual analysis shall be completed on leachate collected from the leachate collection/removal system. At a minimum, the annual leachate analyses shall be conducted for indicator parameters (that is pH, specific conductance, dissolved organic carbon and total organic halogen) and selected hazardous waste constituents. The hazardous waste constituents selected must provide a reliable indication of the presence of hazardous constituents that are reasonably expected to be in

or derived from wastes contained in each unit.

(III) At the first occurrence of leachate in the leak detection system, the owner/operator shall analyze leachate from that system for the complete list of parameters identified in 40 CFR part 264 Appendix IX.

(IV) The owner/operator shall calculate the average daily flow rate for each sump in the leak detection system as required by 40 CFR 264.302(b). In addition, the average daily flow rate for each sump in each of the leachate collection/removal systems shall also be calculated in a similar manner. Following closure, the average daily flow rates shall be calculated at the same frequency as the recording of leachate removal as required by 40 CFR 264.303(c)(2). If the department determines that the leachate generation rate is greater than reasonably expected for any unit, the department may require the owner/operator to provide additional information to evaluate the existing conditions.

(V) The owner/operator shall submit all information required to comply with parts (2)(N)2.G.(I)—(IV) of this rule to the department in accordance with subsection (2)(E) of this rule and 40 CFR part 264 subpart E incorporated in this rule.

(VI) The department may require more frequent leachate collection and analysis than that outlined in parts (2)(N)2.G.(I)—(IV) of this rule if determined necessary. The frequency of leachate collection and analysis will be specified in the facility permit.

(VII) Indicator parameters and constituents to be monitored as required by part (2)(N)2.G.(II) of this rule will be specified by the department in the facility permit. If the department determines that results of the chemical analyses are outside of the range that is reasonably expected for any unit, the department may require the owner/operator to provide additional information to evaluate the existing conditions.

H. The owner/operator shall measure daily precipitation at the facility until final closure is certified. During the post-closure care period of the facility, the owner/operator shall also record and report regional precipitation from the nearest weather recording station in accordance with the schedule established for the maintenance of the facility. The information required under this paragraph shall be submitted to the department in accordance with subsection (2)(E) of this rule and 40 CFR part 264 subpart E incorporated in this rule.

I. If the volume or rate of flow of leachate contained in the leak detection sys-

tem (implemented in accordance with subparagraph (2)(N)2.G. of this rule) exceeds ten percent (10%) of the action leakage rate as defined in 40 CFR 264.302, incorporated in this rule, then the owner/operator shall analyze the leachate for the indicator parameters and constituents outlined in the facility permit. If the analyzed leachate exceeds the detection limits outlined in the facility permit, the owner/operator shall—

(I) Notify the department in writing of the leak within seven (7) days after detecting the leak;

(II) Remove, within the period of time specified in the permit, accumulated liquid, conduct an assessment of the leakage to determine the cause and extent of the leak and, if necessary, initiate repairs or replace the leaking liner to prevent the migration of hazardous waste liquids through the liner; and

(III) Submit to the department the assessment and a certification from a registered professional engineer describing any repairs or replacement of the liner system within thirty (30) days of completion.

J. A landfill shall be designed, constructed and operated to minimize erosion, landslides and sloughing.

K. Where necessary, features shall be provided around closed units or, when leachate is detected in the lower leachate collection system, features shall control horizontal migration of leachate from the disposal unit. These features may include, but are not limited to, recompact trench walls, slurry trenches and interceptor trenches.

L. There shall be a minimum of three hundred feet (300') of buffer between the property line of the disposal facility and the permitted area.

M. If the owner/operator accepts any odoriferous waste, the owner/operator shall apply cover or otherwise manage the landfill to control odor dispersal.

N. If gases are generated within the landfill, a gas collection and control system shall be installed to control the vertical and horizontal escape of gases from the landfill.

3. All hazardous wastes accepted for disposal shall be listed in the permit application in accordance with 40 CFR 270.13(j) as incorporated by reference in 10 CSR 25-7.270. In addition, departmental approval of individual waste streams may be required prior to allowing the disposal of the waste streams in the landfill.

4. Wastes having a true vapor pressure greater than seventy-eight millimeters of mercury (78 mm Hg) at twenty-five degrees Celsius (25°C) are volatile wastes and shall not be landfilled.

(O) Incinerators. This subsection sets forth standards which modify or add to those requirements in 40 CFR part 264 subpart O.

1. Sampling methods to determine compliance with 40 CFR 264.343 incorporated in this rule will be specified by the department in the permit and shall consist of any of the following methods:

A. The methods described in the *Engineering Handbook for Hazardous Waste Incineration*, SW-889, by the United States EPA or equivalent; or

B. The methods specified in 40 CFR part 60 Appendix A (July 1, 1989). For facilities subject to paragraph (2)(O)2. of this rule, the methods referenced in this paragraph shall be used exclusively to determine compliance with the emission limitations required in this subsection.

2. The provisions of 40 CFR part 60 subpart E, July 1, 1989, shall apply and are incorporated by reference as part of this rule. An owner/operator of a hazardous waste incinerator which is regulated under the New Source Performance Standards in that subpart shall comply with the provisions in addition to complying with all other applicable provisions in this rule.

3. Where emission limitations found in both paragraph (2)(O)2. of this rule and in another provision of this rule are applicable to a hazardous waste incinerator, the more stringent shall control.

(P) Health Profiles.

1. An owner/operator shall submit a health profile, as required by section 260.395.7(5), RSMo, with the application for a hazardous waste treatment or operating disposal facility. (A health profile is not necessary for a post-closure permit.) A health profile shall include efforts to identify any serious illnesses, the rate of which exceeds the state average for the illnesses, which might be attributable to environmental contamination. A serious illness is one which may cause or significantly contribute to an increase in morbidity and mortality or an increase in reversible or irreversible incapacitating effects on the health of humans. An owner/operator shall consult the Missouri Department of Health regarding appropriate factors to be included in the profile prior to initiating the health profile.

A. The health profile shall address five (5) main sources of data as listed and shall take into consideration—

(I) The population density around the site, as indicated by the most current census data;

(II) Mortality, as indicated by death certificate information;

(III) Incidence, as indicated by the *State Cancer Registry*;

(IV) Natality, as indicated by fetal death and birth certificate information; and

(V) Morbidity, as indicated by hospital discharge information.

B. Conditions reflecting routes of exposure shall be included in the report for all hazardous wastes to be treated or disposed of at the facility.

C. The discussion of measurements of health characteristics shall focus on comparisons between state, county and site-specific rates.

D. Site-specific rates shall include a geographic area of an approximate three to five (3–5)-mile radius around the site using zip code boundaries. Geographic areas of larger or smaller size may be used, where approved by the Missouri Department of Health, and shall reflect the risks on a representative population. Only Missouri data is required for any site where the three to five (3–5)-mile radius extends into another state.

(I) For incinerators, special consideration shall be given to wind roses for each season with distinct meteorological conditions. In addition, calculated effluent plume paths, including areas of maximum impact and width and length of plume at ground level, should be presented.

(II) After analysis of the data required in this section, modification of the site-specific geographic area from which disease rates will be computed may be necessary with respect to the previously mentioned three to five (3–5)-mile radius around the site.

E. A minimum of five (5) years' data shall be required for a statistical analysis and averaging of rate computations. Qualitative technical difficulties in data resulting in time periods of less than five (5) years shall be fully explained and justified in the text of the report.

2. This paragraph sets forth requirements which shall be met subsequent to the initial application.

A. A health profile shall be part of each request for permit renewal.

B. Additional epidemiological investigations may be required when the rate of any illness in the area described in subparagraph (2)(P)1.D. of this rule exceeds the state average for that illness.

(Q) *(Reserved)*

(R) *(Reserved)*

(S) *(Reserved)*

(T) *(Reserved)*

(U) *(Reserved)*

(V) *(Reserved)*

(W) Drip Pads. 40 CFR part 264 subpart W is not incorporated by reference.

(X) This subsection sets forth requirements in addition to 40 CFR part 264 subpart X incorporated in this rule.

1. A facility which continuously feeds hazardous waste into the treatment process shall be equipped with an automatic waste feed cutoff or a bypass system that is activated when a malfunction in the treatment process occurs. A bypass system shall return hazardous wastefeed to storage and shall not allow a discharge or release of hazardous waste.

2. Residuals of by-products from a treatment process (for example, sludges, spent resins) shall be analyzed during a trial period to determine the effectiveness of the treatment process.

(Y) *(Reserved)*

(Z) *(Reserved)*

(AA) Air Emission Standards for Process Vents. *(Reserved)*

(BB) Air Emission Standards for Equipment Leaks. *(Reserved)*

(CC) Air Emission Standards for Tanks, Surface Impoundments, and Containers. *(Reserved)*

(DD) Containment Buildings. *(Reserved)*

(EE) Hazardous Waste Munitions and Explosive Storage. *(Reserved)*

(3) The following requirements apply to hazardous waste TSD facilities that accept and/or ship hazardous waste via railroad tank car (railcar).

(A) The owner/operator shall submit a railcar management plan with the application for a hazardous waste treatment, storage or disposal facility permit. Permitted facilities that currently accept and/or ship hazardous waste via railcars shall request a Class I permit modification that requires prior director approval for the railcar management plan according to the procedures defined in 10 CSR 25-7.270 within one hundred eighty (180) days of the effective date of this paragraph. Permitted facilities that fail to apply for a permit modification in compliance with this subsection shall cease all operations involved in the acceptance and/or shipment of hazardous waste via railcar. The permitted facility that has fully complied with this subsection has authorization to conduct the operations involved in the acceptance and/or shipment of hazardous waste via railcar, pending action by the director.

1. The railcar management plan shall describe steps to be taken by the facility in order to comply with the requirements of subsections (3)(B)–(3)(F).

2. The railcar management plan shall be maintained at the facility.

(B) Railcars shall not be used as container or tank storage units at a facility unless the owner/operator complies with the standards for container storage set forth in 40 CFR part 264 subpart I as incorporated in this rule and 40 CFR 270.15 as incorporated in 10 CSR 25-7.270. During the time allowed for loading and unloading as set forth in this section, the railcar shall not be considered to be in storage.

1. The owner/operator shall ship hazardous wastes loaded onto a railcar within seventy-two (72) hours after loading is initiated. For the purposes of this section, shipment occurs when—

A. The transporter signs and dates the manifest acknowledging acceptance of the hazardous waste;

B. The transporter returns a signed copy of the manifest to the facility; and

C. The railcar crosses the property boundary line of the TSD facility.

2. The owner/operator shall unload hazardous waste from an incoming railcar within seventy-two (72) hours of receipt of the shipment. For the purposes of this section, receipt of the shipment occurs when—

A. The owner/operator signs the shipping paper; or

B. The owner/operator signs the manifest; or

C. The railcar crosses the property boundary line of the TSB facility.

3. The time limits in this subsection may be extended for up to an additional twenty-four (24) hours for Saturdays, Sundays, or public holidays as defined in section 9.010, RSMo (1994), that fall within the initial seventy-two (72)-hour time period.

4. If the owner/operator finds that a railcar shipment must be rejected, the railcar shall be shipped within twenty-four (24) hours of that determination, or within the initial seventy-two (72)-hour time period, whichever is later. The rejection and the reasons for the rejection shall be documented in the facility's operating record.

5. The owner/operator shall attempt to arrange for the rail carrier to provide the owner/operator a notification detailing when a railcar was picked up from the facility or when a railcar was delivered to the facility. If the rail carrier declines to enter into such arrangements, the owner/operator must document the refusal in the operating record. The time limitations set forth in this subsection must be documented by recording dates and times in the facility's operating record.

6. If the loading and unloading time frames specified in this section are exceeded,

then the owner/operators utilizing railcars shall comply with the standards for container storage in 40 CFR part 264 subpart I, as incorporated in this rule, and with 40 CFR 270.15, as incorporated in 10 CSR 25-7.270.

(C) The owner/operator shall comply with 40 CFR 264.17, incorporated in this rule, during railcar loading and unloading. Additional specific precautions to be taken shall include facility design, construction, operation and maintenance standards as specified in "Loading and Unloading Operations: Tank Vehicles and Tank Cars" in section 5-4.4.1 of the 1993 Edition of the *National Fire Protection Association Flammable and Combustible Liquids Code* (NFPA 30).

(D) The owner/operator shall provide security for railcars at the facility by utilizing one of the alternatives specified in 40 CFR 264.14(b), as incorporated in this rule. If the owner/operator demonstrates that it is not practical to provide security for railcars at the facility as specified in 40 CFR 264.14(b), incorporated in this rule, railcars shall be secured by locking all fill and drain posts upon receipt of a loaded railcar or upon completion of the owner/operator's loading procedures. The locks must remain in place until the owner/operator begins unloading procedures or until the rail carrier picks up the loaded or rejected railcar for transport off-site.

(E) In accordance with 40 CFR 264.15, incorporated in this rule, the owner/operator shall inspect railcars and surrounding areas, at least daily, looking for leaks and for deterioration caused by corrosion or other factors.

(F) In accordance with 40 CFR part 264 subpart C and 40 CFR part 264 subpart D, as incorporated in this rule, the owner/operator shall develop preparedness and prevention procedures and a contingency plan for railcars. If the owner/operator has not prepared a Spill Prevention Control and Countermeasures (SPCC) Plan for hazardous waste, then one must be developed that parallels requirements and guidelines as specified in 40 CFR part 112 for oil. At a minimum, the SPCC Plan must include adequate spill response equipment and preventative measures, such as dikes, curbing and containment systems.

AUTHORITY sections 260.370, RSMo Supp. 1997 and 260.390 and 260.395, RSMo 1994.* Original rule filed Dec. 16, 1985, effective Oct. 1, 1986. Amended: Filed Aug. 14, 1986, effective Jan. 1, 1987. Amended: Filed Feb. 3, 1987, effective Aug. 1, 1987. Amended: Filed Dec. 1, 1987, effective Aug. 12, 1988. Amended: Filed Feb. 16, 1990,

effective Dec. 31, 1990. Amended: Filed Jan. 15, 1991, effective Aug. 1, 1991. Amended: Filed Feb. 14, 1992, effective Dec. 3, 1992. Amended: Filed Jan. 5, 1993, effective Aug. 9, 1993. Amended: Filed June 3, 1993, effective Jan. 31, 1994. Amended: Filed Jan. 5, 1994, effective Aug. 28, 1994. Amended: Filed Aug. 16, 1995, effective April 30, 1996. Amended: Filed June 1, 1998, effective Jan. 30, 1999.

*Original authority: 260.370, RSMo 1977, amended 1980, 1988, 1993, 1995; 260.390, RSMo 1977, amended 1980, 1983, 1985, 1993; and 260.395, RSMo 1977, amended 1980, 1983, 1985.

10 CSR 25-7.265 Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities

PURPOSE: This rule incorporates 40 CFR part 265 by reference and sets forth additional state standards.

PUBLISHER'S NOTE: The publication of the full text of the material that the adopting agency has incorporated by reference in this rule would be unduly cumbersome or expensive. Therefore, the full text of that material will be made available to any interested person at both the Office of the Secretary of State and the office of the adopting agency, pursuant to section 536.031.4, RSMo. Such material will be provided at the cost established by state law.

Editor's Note: EPA form 8700-22/MDNR-HWG 10 follows 10 CSR 25-7.270.

(1) The regulations set forth in 40 CFR part 265, July 1, 1997, as amended at 62 FR 64636 through 62 FR 64671, December 8, 1997, are incorporated by reference. Except as provided otherwise in this rule, the substitution of terms set forth in 10 CSR 25-3.260(1)(A) shall apply in this rule in addition to any other modifications set forth in section (2) of this rule. Where conflicting rules exist in 10 CSR 25, the more stringent shall control.

(2) The owner/operator of a treatment, storage or disposal (TSD) facility shall comply with the requirements noted in this section in addition to requirements set forth in 40 CFR part 265 incorporated in this rule. In the case of contradictory or conflicting requirements in 10 CSR 25, the more stringent shall control. (Comment: This section has been organized so that all Missouri additions, changes or deletions to any subpart of the federal regulations are noted within the corresponding

subsection of this section. For example, the additional requirements to be added to 40 CFR part 265 subpart A are found in subsection (2)(A) of this rule.)

(A) General. In addition to the requirements in 40 CFR part 265 subpart A, the following regulations also apply:

1. This rule does not apply to an owner/operator of an elementary neutralization unit or a wastewater treatment unit receiving only hazardous waste generated on-site or generated by its operator or only one (1) operator if the unit meets the standards set forth in 10 CSR 25-7.270(2)(A)3.;

2. This rule does not apply to an owner/operator for that portion of or process at the facility which is in compliance with 10 CSR 25-9.020 Hazardous Waste Resource Recovery Processes. (Note: Underground injection wells are prohibited in Missouri by section 577.155, RSMo.);

3. State interim status is authorization to operate a hazardous waste treatment, storage or disposal facility pursuant to section 260.395.15, RSMo, 10 CSR 25-7.265 and 10 CSR 25-7.270 until the final administrative disposition of the permit application is made or until interim status is terminated pursuant to 10 CSR 25-7.270. The owner/operator of a facility or unit operating under state interim status shall comply with the requirements of this rule and 10 CSR 25-7.270. In addition to providing notification to the Environmental Protection Agency (EPA), the owner/operator is required to provide state notification in accordance with 10 CSR 25-7.270;

4. Hazardous waste which must be managed in a permitted unit (e.g., waste generated on-site and stored beyond the time frames allowed without a permit pursuant to 10 CSR 25-5.262, waste received from off-site, certain hazardous waste fuels, etc.) shall not be stored or managed outside an area or unit which does not have a permit or interim status for that waste for a period which exceeds twenty-four (24) hours. This provision shall not apply to railcars held in areas for handling during the time period allowed by, and managed in accordance with, 10 CSR 25-7.264(3) of this regulation. (Comment: The purpose of this paragraph is to allow the necessary movement of hazardous waste into, out of, and through facilities, and not to evade permit requirements.); and

5. 40 CFR 265.1(c)(14)(ii) is not incorporated into this rule.

(B) General Facility Standards. This subsection sets forth requirements that modify or add to the requirements in 40 CFR part 265 subpart B.

1. In addition to the requirements in 40 CFR 265.12(a) incorporated in this rule, an

owner/operator shall submit to the department a separate analysis for each hazardous waste that s/he intends to import. Each analysis shall contain the following information: the foreign generator's name, site address and telephone number; a list of applicable EPA waste codes and a percentage of each for each hazardous waste; the flash point determined in accordance with 40 CFR 261.21 incorporated by reference in 10 CSR 25-4; a list of reactive waste(s) as defined in 40 CFR 261.23 incorporated by reference in 10 CSR 25-4; and results of toxicity tests conducted in accordance with 40 CFR 261.24 incorporated by reference in 10 CSR 25-4.261, if applicable.

2. *(Reserved)*

(C) Preparedness and Prevention. *(Reserved)*

(D) Contingency Plan and Emergency Procedures. *(Reserved)*

(E) Manifest System, Record Keeping and Reporting. This subsection sets forth standards which modify or add to those requirements in 40 CFR part 265 subpart E.

1. All owners/operators shall comply with the manifest summary reporting requirements in 10 CSR 25-5.262(2)(D) regardless of whether the owner/operator is required to register as a generator pursuant to 10 CSR 25-5.262(2)(A)1.

2. In addition to the requirements in 10 CSR 25-5.262(2)(D) for hazardous waste generated on-site and shipped off-site for treatment, storage, resource recovery or disposal, the owner/operator shall meet the same requirements for the following:

A. All hazardous waste generated on-site during the reporting period that is managed on-site; and

B. All hazardous waste received from off-site during the reporting period, including hazardous waste generated by another generator and hazardous waste generated at other sites under the control of the owner/operator.

3. In addition to the information required in 10 CSR 25-5.262(2)(D), an owner/operator shall include the following information in the summary report:

A. A description and the quantity of each hazardous waste that was both generated and managed on-site during the reporting period;

B. For each hazardous waste that is received from off-site, a description and the quantity of each hazardous waste and the corresponding state and EPA identification numbers of each generator;

C. For imports, the name and address of the foreign generator;

D. The corresponding method of treatment, storage, resource recovery, dispos-

al or other approved management method used for each hazardous waste; and

E. In addition to the requirements in 40 CFR 265.71(a)(1) and (2) and 265.71(b)(1) and (2) incorporated by reference in section (1) of this rule, the owner/operator shall record the appropriate handling code(s) on the manifest as specified by the instructions for completing form 8700-22/MDNR-HWG 10.

(F) Groundwater Monitoring. *(Reserved)*

(G) Closure and Post-Closure. This subsection sets forth additional requirements to 40 CFR part 265 subpart G, incorporated in this rule.

1. The incorporation by reference of 40 CFR 265.113(d) and (e) does not relieve the owner/operator of his/her responsibility to comply with 10 CSR 80 if a solid waste permit is required under those rules.

2. The owner/operator of a hazardous waste unit which is certifying closure with residues left in place, regardless of the level of treatment to render the residue nonhazardous, shall meet the requirements in 40 CFR 265.116 incorporated in this rule.

3. In addition to requirements in 40 CFR 265.116, when an owner/operator certifies a closure which did not result in removal of hazardous wastes to background levels, the owner/operator shall record, in accordance with state law, a notation on an instrument which is normally examined during title search that will notify, in perpetuity, a potential purchaser of the property that the land has been used to manage hazardous waste.

4. In addition to the requirements in 40 CFR 265.116 and 265.119 as incorporated in this rule, an owner/operator shall submit a notarized statement to the department certifying that the owner/operator has caused the notation(s) to be recorded. The notation(s) shall be recorded with the recorder(s) of deeds in all counties in which the facility or part of the facility is located.

(H) Financial Assurance Requirements. This subsection sets forth the requirements which modify or add to those requirements in 40 CFR part 265 subpart H.

1. For purposes of this subsection, commercial treatment, storage or disposal (TSD) facility means any facility that would be considered a commercial hazardous waste treatment, storage and disposal facility for purposes of 10 CSR 25-12.020, or any facility that is certified as an R2 resource recovery facility according to 10 CSR 25-9.020, or any facility that receives for remuneration polychlorinated biphenyls (PCB) material or PCB units as defined by 10 CSR 25-13.010.

2. In 40 CFR 265.143(a)(3) incorporated by reference in this rule, delete "the 20

years" and insert in its place "a period of five (5) years."

3. In 40 CFR 265.145(a)(3) incorporated by reference in this rule, delete "the 20 years" and insert in its place "a period of five (5) years."

4. This paragraph modifies the requirements for surety bonds guaranteeing payment into a closure trust fund or post-closure trust fund per 40 CFR 265.143(b) or 40 CFR 265.145(b), incorporated in this rule.

A. Any surety company issuing a surety bond guaranteeing payment into a closure trust fund or post-closure trust fund shall be authorized to do business in Missouri.

B. Any surety company issuing a surety bond guaranteeing payment into a closure trust fund or post-closure trust fund shall not cancel, terminate, or fail to renew a surety bond guaranteeing payment into a closure or post-closure trust fund and the surety bond shall remain in full force and effect in the event that on or before the date of cancellation

(I) The director deems the facility abandoned; or

(II) Interim status is terminated or revoked; or

(III) Closure is ordered by the department or a court of competent jurisdiction; or

(IV) The owner/operator is named as a debtor in a voluntary or involuntary proceeding under 11 U.S.C. section 1, et seq.; or

(V) The premium due is paid; or

(VI) An appeal of an order to close the facility as specified in part (2)(H)4. B. (III) of this subparagraph is pending.

C. Facilities that have a surety bond or bonds guaranteeing payment into a closure trust fund or a post-closure trust fund as of the effective date of this subparagraph shall modify their surety instruments to comply with this paragraph within twelve (12) months of the effective date of this subparagraph.

5. This paragraph modifies the requirements for letters of credit per 40 CFR 265.143(c) incorporated in this rule, 40 CFR 265.145(c) incorporated in this rule, and 40 CFR 265.147(h), incorporated in this rule. Letters of credit shall be issued by a state- or federally-chartered and regulated bank or trust association. If the issuing institution is not located in Missouri, a bank or trust association located in Missouri shall confirm the letter of credit and the confirmation and the letter of credit shall be filed with the department.

6. An owner/operator of a facility that is a commercial TSD facility may not satisfy



financial assurance requirements for closure, post-closure or liability coverage, or any combination of these, by the use of a financial test as specified in 40 CFR 265.143(e) incorporated in this rule, 40 CFR 265.145(e) incorporated in this rule, or 40 CFR 265.147(f), incorporated in this rule.

7. This paragraph modifies the requirements for closure insurance per 40 CFR 265.143(d) incorporated in this rule, post-closure insurance per 40 CFR 265.145(d) incorporated in this rule, liability coverage for sudden accidental occurrences per 40 CFR 265.147(a)(1) incorporated in this rule, and liability coverage for non-sudden accidental occurrences per 40 CFR 265.147(b)(1), incorporated in this rule. Each insurance policy shall be issued by an insurer which, at a minimum, is licensed to transact the business of insurance or is eligible to provide insurance as an excess or surplus lines insurer in Missouri.

8. In 40 CFR 265.143(e) incorporated in this rule, delete “or a firm with a ‘substantial business relationship’ with the owner or operator.”

9. In 40 CFR 265.145(e) incorporated in this rule, delete “or a firm with a ‘substantial business relationship’ with the owner or operator.”

10. In 40 CFR 265.147(g) incorporated in this rule, delete “or a firm with a ‘substantial business relationship’ with the owner or operator.”

(I) Use and Management of Containers. This subsection sets forth additional standards for container storage areas.

1. Container storage areas shall have a containment system that is designed and operated in accordance with paragraph (2)(I)2. of this rule except as provided by paragraph (2)(I)4. of this rule.

2. A containment system shall be designed, maintained and operated as follows:

A. A containment system shall have a base which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills and accumulated precipitation until the collected material is detected and removed;

B. The base shall be sloped or the containment system shall be otherwise designed and operated to drain and remove liquids resulting from leaks, spills or precipitation, unless the containers are elevated or otherwise protected from contact with accumulated liquids;

C. The containment system shall have a capacity equal to ten percent (10%) of the containerized waste volume or the volume of the largest container, whichever is greater.

Containers that do not contain free liquids need not be considered in this calculation;

D. Run-on into the containment system shall be prevented unless the collection system has sufficient excess capacity in addition to that required in subparagraph (2)(I)2.C. of this rule to contain any run-on which might enter the system; and

E. Spilled or leaked waste and accumulated precipitation shall be removed from the sump or collection area in as timely a manner as is necessary to prevent overflow of the collection system.

3. The containment system shall also be inspected as part of the weekly inspections required by 40 CFR 265.174, incorporated in this rule.

4. Storage areas that store containers holding only wastes that do not contain free liquids or storage facilities that store less than one thousand kilograms (1000 kg) of nonacute hazardous waste containing free liquids need not have a containment system described in paragraph (2)(I)2. of this rule provided that—

A. The storage area is sloped or is otherwise designed and operated to drain and remove liquid resulting from precipitation; or

B. The containers are elevated or are otherwise protected from contact with accumulated liquid.

5. Containers storing hazardous waste must be marked and labeled in accordance with 10 CSR 25-5.262(2)(C) during the entire storage period.

6. Container storage areas which close without removing all hazardous waste and/or hazardous waste constituents to below background levels may pursue either a risk-based closure if there is no evidence of groundwater or surface water contamination or in the absence of such evidence, close in accordance with 10 CSR 25-7.264(2)(N) and 40 CFR part 264 subpart N as incorporated in subsection (2)(N). The owner/operator shall also comply with the requirements of 10 CSR 25-7.265(2)(G).

7. Containers holding ignitable or reactive waste which are stored outdoors or in buildings not equipped with sprinkler systems shall be located at least fifty feet (50') from the facility's property line.

8. Containers holding ignitable or reactive waste which are stored indoors shall be located at least fifty feet (50') from the facility's property line, unless the following requirements are satisfied:

A. Exposing walls that are located more than ten feet (10') but less than fifty feet (50') from a boundary line of adjoining property that can be built upon shall have a fire-resistance rating of at least two (2) hours,

with each opening protected by an automatically-closing listed one and one-half (1.5)-hour (B) fire door;

B. Exposing walls that are located less than ten feet (10') from a boundary line of adjoining property that can be built upon shall have a fire-resistance rating of at least four (4) hours, with each opening protected by an automatically-closing listed three (3)-hour (A) fire door (Comment: All fire doors, closure devices and windows shall be installed in accordance with the National Fire Protection Association (NFPA) Code 80, *Standards for Fire Doors and Windows* 1995 edition);

C. The construction design of exterior walls shall provide ready accessibility for fire-fighting operations through the provision of access openings, windows or lightweight noncombustible wall panels;

D. Container storage areas shall be provided with automatic fire suppression systems designed and installed in accordance with NFPA 14 (1996 edition), NFPA 15 (1996 edition), NFPA 16 (1995 edition), NFPA 16A (1994 edition), NFPA 17 (1998 edition), NFPA 17A (1998 edition), NFPA 18 (1995 edition), NFPA 20 (1996 edition), NFPA 22 (1996 edition), and NFPA 24 (1995 edition) Standards. Final design of these systems shall be approved by an independent, qualified, registered professional engineer in Missouri;

E. Each container storage area shall have preconnected hose lines capable of reaching the entire area. The fire hose shall be a one and one-half (1.5)-inch line or one-inch (1") hard rubber line. Where a one and one-half (1.5)-inch fire hose is used, it shall be installed in accordance with NFPA 14 (1996 edition). Hand-held fire extinguishers rated for the appropriate class of fire shall be available at each storage area;

F. Only containers meeting the requirements of, and containing products authorized by, Chapter I, Title 49 of the *Code of Federal Regulations* (DOT Regulations) or NFPA 386, *Standard for Portable Shipping Tanks* (1990 edition) shall be used;

G. All storage of ignitable or reactive materials shall be organized in a manner which will not physically obstruct a means of egress. Materials shall not be placed in a manner that a fire would preclude egress from the area. Evacuation plans shall recognize the locations of any automatically-closing fire doors;

H. All containers shall be arranged so that there is a minimum aisle space of four feet (4') between rows, allowing accessibility to each individual container. Double rows can be utilized. Containers shall not be stacked,

placed, or both, closer than three feet (3') from ceilings or any roof members; and

I. Explosive gas levels in the facility shall be monitored continuously. If the facility is not manned twenty-four (24) hours per day, a telemetry system shall be provided to alarm designated response personnel.

(J) Tanks. This subsection modifies and adds to the incorporation of 40 CFR part 265 subpart J.

1. 40 CFR 264.190(c) is not incorporated by reference.

2. In 40 CFR 265.193(g)(1) incorporated in this rule, delete "or that in the event of a release that does migrate to ground water or surface water, no substantial present or potential hazard will be posed to human health or the environment." 40 CFR 265.193(g)(2) is not incorporated by reference in this rule. In 40 CFR 265.193(g)(4)(ii) incorporated in this rule, substitute "264.197(b)" for "265.197(b)." For purposes of 40 CFR 265.193(h) incorporated in this rule, "variance" means exception.

3. In 40 CFR 265.196(c) and (c)(2) incorporated in this rule, delete "visible" and "visual." Tank storage areas which close without removing all hazardous waste and/or hazardous waste constituents to below background levels may pursue either a risk-based closure if there is no evidence of groundwater or surface water contamination or in the absence of such evidence, close in accordance with 10 CSR 25-7.264(2)(N) and 40 CFR part 264 subpart N as incorporated in subsection (2)(N). The owner/operator shall also comply with the requirements of 10 CSR 25-7.265(2)(G).

(K) Surface Impoundments. In addition to the requirements in 40 CFR part 265 subpart K, those surface impoundments which are intended to be closed without removing the hazardous waste shall meet the requirements of 10 CSR 25-7.264(2)(N)1.A. and 40 CFR part 264 subpart N as incorporated in 10 CSR 25-7.264. If the site location for any such impoundment cannot meet these site specific location requirements and contamination exists beyond the liner of the surface impoundment, the owner/operator shall clean up contaminated residues and hazardous constituents to the greatest extent practical during closure. If the department determines, based on the potential impact on human health and the environment, that it is not necessary or not feasible to remove contaminated material down to background concentrations during closure, the owner/operator shall comply with 40 CFR 264.228(b) incorporated in 10 CSR 25-7.264 or shall submit a delisting petition and obtain approval from EPA for that delisting petition pursuant to 40

CFR 260.20 and 40 CFR 260.22 for the contaminated material not removed during closure.

(L) Waste Piles. *(Reserved)*

(M) Land Treatment. *(Reserved)*

(N) Landfills. *(Reserved)*

(O) Incinerators. *(Reserved)*

(P) Thermal Treatment. *(Reserved)*

(Q) Chemical, Physical and Biological Treatment. *(Reserved)*

(R) Underground Injection. 40 CFR part 265 subpart R is not incorporated by reference.

(S) *(Reserved)*

(T) *(Reserved)*

(U) *(Reserved)*

(V) *(Reserved)*

(W) Drip Pads. 40 CFR part 265 subpart W is not incorporated by reference.

(X) *(Reserved)*

(Y) *(Reserved)*

(Z) *(Reserved)*

(AA) Air Emission Standards for Process Vents. *(Reserved)*

(BB) Air Emission Standards for Equipment Leaks. *(Reserved)*

(CC) Air Emission Standards for Tanks, Surface Impoundments, and Containers. *(Reserved)*

(DD) Containment Buildings. *(Reserved)*

(EE) Hazardous Waste Munitions and Explosives Storage. *(Reserved)*

(3) This section applies to TSD facilities that accept and/or ship hazardous waste via railroad tank cars (railcars). The owner/operator of a TSD facility shall comply with requirements set forth in 10 CSR 25-7.264(3) and shall submit a rail car management plan for inclusion in their part B permit application within one hundred eighty (180) days of the effective date of this section.

AUTHORITY: sections 260.370, RSMo Supp. 1997 and 260.390 and 260.395, RSMo 1994. Original rule filed Dec. 16, 1985, effective Oct. 1, 1986. Amended: Filed Aug. 14, 1986, effective Jan. 1, 1987. Amended: Filed Feb. 3, 1987, effective Aug. 1, 1987. Amended: Filed Dec. 1, 1987, effective Aug. 12, 1988. Amended: Filed Feb. 16, 1990, effective Dec. 31, 1990. Amended: Filed Jan. 15, 1991, effective Aug. 1, 1991. Amended: Filed Feb. 14, 1992, effective Dec. 3, 1992. Amended: Filed Jan. 5, 1993, effective Aug. 9, 1993. Amended: Filed June 3, 1993, effective Jan. 31, 1994. Amended: Filed Jan. 5, 1994, effective Aug. 28, 1994. Amended: Filed Aug. 16, 1995, effective April 30, 1996. Amended: Filed June 1, 1998, effective Jan. 30, 1999.*

**Original authority: 260.370, RSMo 1977, amended 1980, 1988, 1993, 1995; 260.390, RSMo 1977, amended 1980, 1983, 1985, 1993; and 260.395, RSMo 1973, amended 1980, 1983, 1985.*

10 CSR 25-7.266 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities

PURPOSE: This rule incorporates federal regulations in 40 CFR part 266 by reference and provides Missouri specific additions, deletions or changes to the federal regulations. This rule provides limited standards for certain hazardous waste management practices, particularly in regard to recyclable materials and sets forth standards for recyclable materials used in a manner constituting disposal, hazardous waste burned in boilers and industrial furnaces recyclable materials utilized for precious metals recovery and spent lead-acid batteries being reclaimed.

PUBLISHER'S NOTE: The publication of the full text of the material that the adopting agency has incorporated by reference in this rule would be unduly cumbersome or expensive. Therefore, the full text of that material will be made available to any interested person at both the Office of the Secretary of State and the office of the adopting agency, pursuant to section 536.031.4, RSMo. Such material will be provided at the cost established by state law.

(1) The regulations set forth in 40 CFR part 266, July 1, 1994, as amended at 59 FR 38536, July 28, 1994, 59 FR 43500, August 24, 1994, 59 FR 47982, September 19, 1994, 60 FR 25542, May 11, 1995, 60 FR 33914, June 29, 1995, 62 FR 6654, February 12, 1997, and 62 FR 32463, June 13, 1997, are incorporated by reference. Except as provided otherwise in this rule, the substitution of terms set forth in 10 CSR 25-3.260(1)(A) shall apply in this rule in addition to any other modifications set forth in section (2) of this rule. Where conflicting rules exist in 10 CSR 25, the more stringent shall control.

(2) Persons subject to the regulations in 40 CFR part 266 shall comply with the requirements, changes, additions or deletions noted in this section in addition to 40 CFR part 266 incorporated in this rule. (Comment: This section has been organized so that all Missouri additions or changes to any subpart of the federal regulations are noted within the corresponding subsection of this section. For example, the changes to the management requirements for hazardous waste fuels, 40



CFR part 266 subpart D, are found in subsection (2)(D) of this rule.)

(A) *Reserved*

(B) *Reserved*

(C) In addition to the requirements in 40 CFR part 266 subpart C incorporated in this rule, a person who is marketing hazardous waste recyclable materials which would be used in a manner constituting disposal must obtain a hazardous waste resource recovery certification pursuant to 10 CSR 25-9.020.

(D) *Reserved*

(E) *Reserved*

(F) *Reserved*

(G) In addition to the requirements in 40 CFR part 266 subpart G a person who reclaims materials from spent lead acid batteries shall obtain a hazardous waste resource recovery certification pursuant to 10 CSR 25-9.020.

(H) Additions, modifications and deletions to 40 CFR part 266 subpart H “Hazardous Waste Burned in Boilers and Industrial Furnaces” are as follow:

1. 40 CFR 266.100(b)(1) is not incorporated by reference in this rule;

2. Add the following provision to 40 CFR 266.100(c) incorporated in this rule: “The owner/operator of facilities that process hazardous waste solely for metal recovery in accordance with 40 CFR 266.100(c) shall be certified for resource recovery pursuant to 10 CSR 25-9.020”;

3. In 40 CFR 266.101(c)(2) incorporated in this rule, delete “(c)(1) of” and in its place insert “(c)(1) and (d)(1) of”; and

4. 40 CFR 266.101 is amended by adding a new subsection (d) to 266.101 incorporated in this rule as follows: (d)(1) Treatment facilities. Owners/operators of permitted facilities that thermally, chemically, physically (that is, shredding, grinding, etc.) or biologically treat hazardous waste prior to burning must comply with 10 CSR 25-7.264(2)(X), and owners/operator of interim status facilities that thermally, chemically, physically (that is, shredding, grinding, etc.) or biologically treat hazardous waste prior to burning shall comply with 10 CSR 25-7.265(2)(P) and (Q). Owners/operators of permitted facilities which blend hazardous waste in tanks or containers prior to burning must comply with 10 CSR 25-7.264(2)(J)7., and owners/operators of interim status facilities that blend hazardous waste in tanks or containers prior to burning shall comply with 10 CSR 25-7.265(2)(J).

(I) *Reserved*.

(J) *Reserved*.

(K) *Reserved*.

(L) *Reserved*.

(M) Additions, modifications and deletions to 40 CFR part 266 subpart M “Military Munitions” are:

1. Oral and written notifications required by 40 CFR 266.203(a)(1) shall be submitted to the department’s emergency response coordinator at (573) 634-2436 or (573) 634-CHEM, in lieu of the director; and

2. Oral and written notifications required by 40 CFR 266.205(a)(1) shall be submitted to the department’s emergency response coordinator at (573) 634-2436 or (573) 634-CHEM, in lieu of the director.

Editor’s Note: Subsection (2)(H) becomes effective December 31, 1993.

AUTHORITY: sections 260.370, RSMo Supp. 1997 and 260.390 and 260.395, RSMo 1994. Original rule filed Dec. 16, 1985, effective Oct. 1, 1986. Amended: Filed Feb. 3, 1987, effective Aug. 1, 1987. Amended: Filed Dec. 1, 1987, effective Aug. 12, 1988. Amended: Filed Feb. 16, 1990, effective Dec. 31, 1990. Amended: Filed Jan. 15, 1991, effective Aug. 1, 1991. Amended: Filed Feb. 14, 1992, effective Dec. 3, 1992. Amended: Filed Jan. 5, 1994, effective Aug. 28, 1994. Amended: Filed Aug. 16, 1995, effective April 30, 1996. Amended: Filed June 1, 1998, effective Jan. 30, 1999.*

**Original authority: 260.370, RSMo 1977, amended 1980, 1988, 1993, 1995; 260.390, RSMo 1977, amended 1980, 1983, 1985, 1993; and 260.395, RSMo 1977, amended 1980, 1983, 1985.*

10 CSR 25-7.268 Land Disposal Restrictions

PURPOSE: This rule establishes standards and requirements that identify hazardous wastes that are restricted from land disposal.

PUBLISHER’S NOTE: The publication of the full text of the material that the adopting agency has incorporated by reference in this rule would be unduly cumbersome or expensive. Therefore, the full text of that material will be made available to any interested person at both the Office of the Secretary of State and the office of the adopting agency, pursuant to section 536.031.4, RSMo. Such material will be provided at the cost established by state law.

(1) The regulations set forth in 40 CFR part 268, July 1, 1997, are incorporated by reference. Except as provided otherwise in this rule, the substitution of terms set forth in 10 CSR 25-3.260(1)(A) shall apply in this rule in addition to any other modifications set forth in section (2) of this rule. Where con-

flicting rules exist in 10 CSR 25, the more stringent shall control.

(2) Persons who generate or transport hazardous waste and owners/operators of hazardous waste treatment, storage and disposal facilities shall comply with this section in addition to the regulations in 40 CFR part 268. (Comment: This section has been organized so that all Missouri additions, changes or deletions to any subpart of the federal regulations are noted within the corresponding subsection of this section. For example, the changes to 40 CFR part 268 subpart A are found in subsection (2)(A) of this rule.)

(A) This subsection sets forth modifications to 40 CFR part 268 subpart A incorporated by reference in section (1) of this rule.

1. 40 CFR 268.1(f)(2) is not incorporated into this rule.

2. The state cannot be delegated the authority from the United States Environmental Protection Agency (EPA) to approve extensions to effective dates of any applicable restrictions, as provided in 40 CFR 268.5 incorporated in this rule. The substitution of terms in 10 CSR 25-3.260(1)(A) does not apply in 40 CFR 268.5 as incorporated in this rule. This modification does not relieve the regulated person of his/her responsibility to comply with 40 CFR 268.5 of the federal hazardous waste management regulations.

3. The state cannot be delegated the authority from the EPA to approve exemptions from prohibitions for the disposal of a restricted hazardous waste in a particular unit(s) based upon a petition demonstrating, to a reasonable degree of certainty, that there will be no migration of hazardous constituents from the disposal unit(s) for as long as the wastes remain hazardous as provided in 40 CFR 268.6 incorporated in this rule. The substitution of terms in 10 CSR 25-3.260(1)(A) does not apply in 40 CFR 268.6 as incorporated in this rule. This modification does not relieve the regulated person of his/her responsibility to comply with 40 CFR 268.6 of the federal hazardous waste management regulations.

(B) 40 CFR part 268 subpart B is not incorporated in this rule.

(C) This subsection sets forth modifications to 40 CFR part 268 subpart C incorporated by reference in section (1) of this rule.

1. The waste specific prohibitions in 40 CFR 268.31 apply to the hazardous wastes identified by EPA hazardous waste numbers F020, F023 and F027 as amended in 10 CSR 25-4.261(2)(D)1.A.—C.

2. The waste specific prohibitions in 40 CFR 268.31 apply to the EPA hazardous

waste numbers F020, F021, F022, F023, F026 and F027 as amended in 10 CSR 25-4.261(2)(D)2.

3. The hazardous waste identified by the Missouri hazardous waste number MP21 in 10 CSR 25-4.261(2)(D)3. may be disposed in a landfill or surface impoundment only if that unit is in compliance with the requirements specified in 40 CFR 268.5(h)(2) as incorporated in section (1) of this rule and all other applicable requirements of 10 CSR 25-7.264(1) incorporating by reference 40 CFR part 264 and 10 CSR 25-7.265(1) incorporating by reference 40 CFR part 265.

(D) This subsection sets forth modifications to 40 CFR part 268 subpart D incorporated by reference in section (1) of this rule.

1. The treatment standards in 40 CFR part 268 subpart D for the hazardous wastes identified by EPA hazardous waste numbers F020, F023 and F027 apply to F020, F023 and F027 hazardous wastes as amended in 10 CSR 25-4.261(2)(D)1.A.—C.

2. The treatment standard in 40 CFR part 268 subpart D for the hazardous wastes identified by EPA hazardous waste numbers F020, F021, F022, F023, F026 and F027 apply to these listed wastes as amended in 10 CSR 25-4.261(2)(D)2.

3. The state cannot be delegated the authority from the U.S. EPA to allow the use of alternative treatment methods as provided in 40 CFR 268.42(b) incorporated in this rule. The substitution of terms in 10 CSR 25-3.260(1)(A) does not apply in 40 CFR 268.42(b) as incorporated in this rule. This modification does not relieve the regulated person of his/her responsibility to comply with 40 CFR 268.42(b) of the federal hazardous waste management regulations.

4. The state cannot be delegated the authority from the U.S. EPA to approve variances from treatment standards as provided in 40 CFR 268.44 incorporated in this rule. The substitution of terms in 10 CSR 25-3.260(1)(A) does not apply in 40 CFR 268.44, as incorporated in this rule. This modification does not relieve the regulated person of his/her responsibility to comply with 40 CFR 268.44 of the federal hazardous waste management regulations.

AUTHORITY: sections 260.370, RSMo 1997 and 260.390, 260.395 and 260.400, RSMo 1994. Original rule filed Feb. 16, 1990, effective Dec. 31, 1990. Rescinded and readopted: Filed Jan. 15, 1991, effective Aug. 1, 1991. Amended: Filed Feb. 14, 1992, effective Dec. 3, 1992. Amended: Filed Jan. 5, 1993, effective Aug. 9, 1993. Amended: Filed Aug. 16, 1995, effective April 30, 1996.*

Amended: Filed June 1, 1998, effective Jan. 30, 1999.

**Original authority: 260.370, RSMo 1977, amended 1980, 1988, 1993, 1995; 260.400, RSMo 1977, amended 1980, 1993; 260.390, RSMo 1977, amended 1980, 1983, 1985, 1993; and 260.395, RSMo 1977, amended 1980, 1983, 1985.*

10 CSR 25-7.270 Missouri Administered Permit Programs: The Hazardous Waste Permit Program

PURPOSE: This rule incorporates the federal regulations in 40 CFR part 270 by reference and sets forth additional state requirements.

PUBLISHER'S NOTE: The publication of the full text of the material that the adopting agency has incorporated by reference in this rule would be unduly cumbersome or expensive. Therefore, the full text of that material will be made available to any interested person at both the Office of the Secretary of State and the office of the adopting agency, pursuant to section 536.031.4, RSMo. Such material will be provided at the cost established by state law.

(1) The regulations set forth in 40 CFR part 270, July 1, 1997, as amended at 62 FR 64636 through 62 FR 64671, December 8, 1997, are incorporated by reference. Except as provided otherwise in this rule, the substitution of terms set forth in 10 CSR 25-3.260(1)(A) shall apply in this rule in addition to any other modifications set forth in section (2) of this rule. Where conflicting rules exist in 10 CSR 25, the more stringent shall control.

(A) Any federal agency, administrator, regulation or statute that is referenced in 40 CFR part 270 shall be deleted and the comparable state department, director, rule or statute as provided in 10 CSR 25-3.260(1)(A) shall be added in its place except as specified in paragraph (2)(A)6. of this rule. The additional substitutions or changes noted in this subsection shall also apply.

1. "Owner/operator" as defined by 10 CSR 25-3.260(2)(O)3. shall be substituted for any reference to "owner and operator" or "owner or operator" in 40 CFR part 270.

(2) The owner/operator of a permitted hazardous waste treatment, storage or disposal (TSD) facility shall comply with the requirements noted in this rule along with 40 CFR part 270, incorporated in this rule. (Comment: This section has been organized so that all Missouri additions, changes or deletions to any subpart of the federal regula-

tions are noted within the corresponding subsection of this section. For example, the changes to 40 CFR part 270 subpart A are found in subsection (2)(A) of this rule.)

(A) General Information. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 270 subpart A.

1. When a facility is owned by one (1) person but is operated by another person, both the owner and operator shall sign the permit application, and the permit shall be issued to both.

2. The owner/operator of a new hazardous waste management facility shall contact the department and obtain an United States Environmental Protection Agency (EPA) identification number before commencing treatment, storage or disposal of hazardous waste.

3. A permit is not required under this rule for an elementary neutralization unit or a wastewater treatment unit receiving only hazardous waste that is generated on-site or generated by its operator or only one (1) generator if the owner/operator, upon request, can demonstrate to the satisfaction of the department the following:

A. There is sufficient evidence that the unit is not leaking;

B. The unit is structurally sound and there is no evidence that the unit will fail or collapse;

C. There are no incompatible wastes being placed in the unit;

D. The owner/operator has been and is in compliance with all present and prior permits and authorizations issued to the owner/operator; and

E. There is no evidence of any past releases from the unit.

4. In addition to the requirements in 40 CFR 270.1(b) incorporated in this rule, the owner/operator shall provide state notification to the department within sixty (60) days after the effective date of a state rule that first requires him/her to comply with 10 CSR 25 where that notification is required.

5. 40 CFR 270.1(c)(2) (viii)(B) is not incorporated into this rule.

6. In 40 CFR 270.2, substitute "Facility mailing list means the mailing list required of the permittee or applicant in accordance with 10 CSR 25-7.270(2)(B)10." for the definition of "Facility mailing list" given in the incorporated regulation.

7. In 40 CFR 270.3 "Considerations Under Federal Law," do not substitute any comparable Missouri statute or administrative rule for the federal acts and regulations. This does not relieve the owner/operator of his/her responsibility to comply with any



applicable and comparable state law or rule in addition to complying with the federal acts and regulations.

(B) Permit Application. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 270 subpart B.

1. Existing hazardous waste management facilities must submit a state Part A permit application to the department no later than sixty (60) days after the effective date of state rules which first require them to comply with the requirements set forth in 10 CSR 25-7.265 or 10 CSR 25-7.266. A facility which did not meet federal notification and Part A submittal requirements under the Hazardous and Solid Waste Amendments (HSWA) shall not qualify for state interim status. State interim status is granted to those facilities which either meet federal interim status requirements, are required to meet state interim status requirements because no federal interim status requirements affect the filing, or become subject to regulations under state rules which are not promulgated to meet the requirements of 40 CFR part 271.

2. Confidentiality may be requested for the information required in 40 CFR 270.13(a)—(m) incorporated in this rule. 10 CSR 25-3.260(1)(B) sets forth requirements for protection of confidential business information and the availability of information provided under 10 CSR 25. Therefore, 40 CFR 270.12 is not incorporated by reference in this rule.

3. The topographic map required in 40 CFR 270.13(l) incorporated in this rule shall also depict surrounding land uses such as residential, commercial, agricultural and recreational.

4. Seismic evaluation requirements for hazardous waste management facility permit applicants. 40 CFR 270.14(b)(11)(i) and (ii) are not incorporated in this rule. An applicant for a hazardous waste management facility permit (excluding post-closure) shall design and construct the facility to withstand stresses due to earthquake loading or certify that the existing facility is able to withstand stresses due to earthquake loading. In the event that the regulated unit cannot withstand stresses, the facility shall certify that a release or situation which will endanger human health and/or the environment is not likely to occur. The applicant shall submit as part of the permit application a certification of the adequacy of the design or the ability of the existing facility to withstand stresses due to earthquake loading. The certification shall consider the location of the facility (e.g., the proximity of the facility to an active seismic zone) and must be completed by a qualified

independent professional engineer registered in Missouri.

5. In addition to the topographic map required in 40 CFR 270.14(b)(19) incorporated in this rule, an applicant for a land-based hazardous waste management facility permit shall submit drawings which depict at a minimum—

- A. Original contours;
- B. Proposed final contours;
- C. Original surface water drainage patterns;
- D. Proposed final surface water drainage patterns;
- E. Layout of the leachate collection system;
- F. Layout of the monitoring system;
- G. Access roads;
- H. Location of soil borings and trenches;
- I. Major rock outcrops and sinkholes within the map area;
- J. Occupied permanent residential dwelling houses within one-fourth (1/4) mile of the disposal facility boundaries;

K. All available information on private and public wells, public water supply lines and any aquifers, seeps, sinkholes, caves or mining areas within one-fourth (1/4) mile of the facility; and

L. For landfills only, a coordinate system referenced to a benchmark and baseline that have been permanently established on the site and referenced to Government Land Office corners and the legal boundaries of the facility as described by a registered land surveyor licensed by Missouri.

6. All submitted engineering plans and reports shall be approved by a registered professional engineer licensed by Missouri. The engineering plans and reports shall specify the materials, equipment, construction methods, design standards and specifications for hazardous waste management facilities and processes that will be utilized in the construction and operation of the facility. The engineering plans and reports shall also include a diagram of any piping, instrumentation or process flows and descriptions of any feed systems, safety cutoffs, bypass systems and pressure controls (for example, vents).

7. The applicant for a hazardous waste facility permit to construct or operate a facility shall submit the application to the department in triplicate (quadruplicate, if application is made for a land-based management facility). If a permit is issued, the permittee shall submit two (2) copies of the entire approved application to the department.

8. The permit application fee set forth in 10 CSR 25-12.010 shall be submitted with the application.

9. The department will supervise any field work undertaken to collect geologic and engineering data which is to be submitted with the application. The applicant shall contact the department at least five (5) working days prior to conducting any field work that is undertaken to collect geologic and engineering data which is to be submitted with the application. A fee shall also be assessed pursuant to 10 CSR 25-12.010 for all costs incurred by the department in the observation of field work, engineering and geological review of the application and all other review necessary by the department to verify that the application complies with section 260.395.7., RSMo.

10. The permit application shall include the following information for the purpose of notification:

A. Names and address of all person listed on the facility mailing list as defined in 10 CSR 25-8.124(1)(A)10.C.(I)(c) shall be submitted in the form of an alphabetical list with five (5) sets of addressed, self-adhesive mailing labels also included; and

B. The name, address and telephone number of the location where the permit application and supporting documents are to be placed, as described in 10 CSR 25-8.124(1)(B)3.B.(II)(c) and the name of the person at that location who may be contacted to schedule a review of the documents.

11. The applicant shall submit the information required by subsection (2)(H) of this rule in the form of a disclosure statement as part of the permit application.

12. An applicant may be required to submit other information as may be necessary to enable the department to carry out its duties.

13. In addition to the requirements in 40 CFR 270.15 incorporated in this rule, an owner/operator of a facility that treats hazardous waste in containers shall meet the requirements in 40 CFR 270.23 incorporated in this rule.

14. In addition to the requirements in 40 CFR 270.16 incorporated in this rule, an owner/operator of a facility that treats hazardous waste in a tank system shall meet the requirements in 40 CFR 270.23 incorporated in this rule.

15. 40 CFR 270.16(h)(2) is not incorporated in this rule.

16. An owner/operator who stores, treats or disposes of hazardous waste in surface impoundments shall provide the following information in addition to the requirements of 40 CFR 270.17 incorporated in this

rule: detailed plans and an engineering report explaining the location of the saturated zone in relation to the surface impoundment and the design of a double-liner system that incorporates a leak detection system between liners.

17. An owner/operator who disposes of hazardous waste in landfills shall provide the following information in addition to the requirements of 40 CFR 270.21 incorporated in this rule:

A. Engineering reports which describe the geology and hydrology of the site and demonstrate the site suitability as required in 10 CSR 25-7.264(2)(N)1.;

B. Detailed plans and an engineering report addressing the following items:

(I) Management of run off from the disposal facility or unit;

(II) Minimization of erosion, landslides and sloughing;

(III) Control of horizontal migration of leachate where applicable;

(IV) Delineation of a three hundred foot (300') buffer between the property line of the disposal facility and area to be permitted;

(V) Control of wind dispersal of waste particulate matter where applicable;

(VI) Control of odor dispersal where applicable; and

(VII) Control of escape of gases where applicable.

C. Detailed plans and engineering report explaining the location of the saturated zone in relation to the landfill and the design of a double-liner system that incorporates a leachate collection and removal system above and between the liners; and

D. An explanation of how the volatile waste standards in 10 CSR 25-7.264(2)(N)4. are met.

18. An owner/operator of a hazardous waste treatment facility or operating disposal facility shall submit a health profile as set forth in 10 CSR 25-7.264(2)(P).

19. The person applying for a permit under sections 260.350—260.434, RSMo shall notify the department in the permit application of any convictions for any acts occurring after July 9, 1990, which would have the effect of limiting competition. The applicant, after submission of the permit application and prior to permit issuance, shall notify the department in writing within thirty (30) days of any conviction for any act which would have the effect of limiting competition.

20. 40 CFR 270.26 is not incorporated in this rule.

21. The owner/operator of a TSD facility that accepts and/or ships hazardous waste via railroad tank car (railcar) shall submit a

railcar management plan in accordance with the requirements set forth in 10 CSR 25-7.264(3).

22. The person applying for a permit under sections 260.350—260.434, RSMo shall comply with the requirements of 10 CSR 25-8.124(1).

(C) Permit Conditions. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 270 subpart C.

1. This paragraph sets forth the procedures for issuance of a hazardous waste facility permit, construction certification and authorization to begin operation.

A. If, after public notice in accordance with 10 CSR 25-8.124 and review of the application, the department determines that the application conforms with the provisions of sections 260.350—260.434, RSMo and all standards and rules corresponding, the department shall issue the hazardous waste facility permit to the applicant upon payment of a fee of one thousand dollars (\$1000) for each facility for each year the permit is to be in effect beyond the first year. The department will issue an EPA identification number to the facility at the time.

B. The applicant may begin construction or alterations at the facility in accordance with the approved plans, reports, design specifications and procedures after receiving the facility permit. When construction is completed as approved in the permit and the financial requirements of this chapter have been fulfilled, the owner/operator shall submit a written request as required in 40 CFR 270.30(1)(2) incorporated in this rule to the department for authorization to begin operation.

C. If the permit is for a facility operating under interim status, the department may deny authority to operate under the permit if the construction required under the permit is not completed in accordance with the approved plans within the time period specified in the permit or within the time period as extended by the department for cause due to circumstances beyond the permittee's control.

D. The appeal period for a permit or any condition of a permit shall begin on the date of issuance of the permit as required in subparagraph (2)(C)1.A. of this rule. However, for the purposes of termination of interim status pursuant to 40 CFR 270.73(a) incorporated in this rule, final administrative disposition of the permit application shall occur either—

(I) Thirty (30) days after issuance of a letter of authorization pursuant to subparagraph (2)(C)1.B. of this rule, unless a

notice of appeal is filed with the commission within that time;

(II) Thirty (30) days after denial of authorization to operate pursuant to subparagraph (2)(C)1.C. of this rule, unless a notice of appeal is filed with the commission within that time; or

(III) Upon the issuance of a decision by the commission, after timely appeal of an action under subparagraph (2)(C)1.B. or C. of this rule.

2. The department may deny the permit application if—

A. The applicant fails to submit a complete application in accordance with, and within the time specified in, a notice of deficiency issued pursuant to 10 CSR 25-8.124(1)(A)3.;

B. The applicant has failed to fully disclose all relevant information in the application or during the permit issuance process or has misrepresented facts at any time;

C. The department determines that the application does not conform with the provisions of sections 260.350—260.434, RSMo and all corresponding standards and rules, or that the facility cannot be effectively operated and maintained in full compliance with sections 260.350—260.434, RSMo and all corresponding standards and rules, or that the facility is being operated or maintained in violation of a present permit, or that continued operation of the facility presents an unreasonable threat to human health or the environment or will create or allow for the continuance of a public nuisance;

D. The department determines that the applicant owner/operator is an habitual violator as defined in subsection (2)(H) of this rule;

E. The department determines that one (1) of the conditions specified in section 260.395.17., RSMo is present; or

F. The applicant owner/operator fails to submit the permit fees required by subparagraph (2)(C)1.A. of this rule within thirty (30) days of receipt of notice from the department that the fees are due.

3. In 40 CFR 270.30(1)(2) introductory text incorporated in this rule, delete "except as provided in 270.42."

4. The owner/operator of a facility permitted under sections 260.350—260.434, RSMo shall notify the department in writing of any conviction for any act occurring after July 9, 1990, which would have the effect of limiting competition. This written notification shall be provided within thirty (30) days of the conviction or plea and shall comply with the requirements at subsection (2)(I) of this rule.



(D) Changes to Permit. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 270 subpart D.

1. In addition to the requirements of 40 CFR 270.40(b), the department shall determine, in accordance with subsection (2)(H) of this rule, whether the proposed owner or operator, including an officer or management employee of the proposed owner or operator, is a person described in section 260.395.16., RSMo and whether any of the conditions specified in section 260.395.17., RSMo would exist if the proposed transfer were to take place.

2. “Revocation and reissuance” of a permit, as that term is used in 40 CFR part 270 incorporated in this rule shall mean the same as “total modification” as that term is used in 10 CSR 25-8.124.

3. The “termination” of a permit as used in 40 CFR part 270 incorporated in this rule shall mean the same as “revocation” of a permit as used in 10 CSR 25-8.124.

4. The director shall suspend, revoke or not renew the permit of any person to treat, store and dispose of hazardous waste if that person has had two (2) or more convictions in any court of the United States or of any state other than Missouri, or two (2) or more convictions within a Missouri court for crimes or criminal acts occurring after July 9, 1990, an element of which involves restraint of trade, price fixing, intimidation of the customers of any person or for engaging in any other acts which may have the effect of restraining or limiting competition concerning activities regulated under Chapter 260, RSMo, the Resource Conservation and Recovery Act or similar laws of other states within any five (5)-year period. Convictions by entities which occurred prior to the purchase or acquisition by a permittee shall not be included. The permittee shall submit a written report to the department within thirty (30) days of the conviction or plea. The report shall include information explaining the charge(s) on which the permittee was convicted, the date(s) of the conviction(s), and the date(s) and charge(s) of previous convictions.

5. The owner/operator of a facility that has had his/her permit (issued under the provisions of sections 260.350—260.434, RSMo) revoked under section 260.379, RSMo may apply to the department for reinstatement of his/her permit after five (5) years has elapsed from the date of the last conviction of crimes or criminal acts as described in section 260.379, RSMo. The application must be in writing and accompanied by a reapplication fee, updated permit

application and any other information the department deems necessary in order to reinstate the permit.

(E) Expiration and Continuation of Permits. The director will review all permits for operating disposal facilities every five (5) years after issuance for conformance with applicable current hazardous waste rules and laws. The permit will be modified as necessary to conform with the applicable rules and laws.

(F) Special Forms of Permits. *(Reserved)*

(G) Interim Status. This subsection sets forth requirements which modify or add to those requirements in 40 CFR part 270 subpart G.

1. An owner/operator who becomes regulated under 10 CSR 25-7 shall operate in compliance with interim status in accordance with paragraphs (2)(A)4. and (2)(B)1. of this rule.

2. In addition to the items in 40 CFR 270.73 incorporated in this rule, interim status terminates when the department issues an order or commences an action pursuant to paragraph (2)(G)4. of this rule requiring the owner/operator to cease operations and undertake closure actions at the facility or at a unit.

3. The owner/operator, at any time, voluntarily may submit a permit application pursuant to this rule.

4. Upon a determination by the department that the facility is not being operated or cannot be operated in full compliance with the requirements of 10 CSR 25-7.265, the department, in lieu of or in addition to requiring the submittal of a permit application pursuant to paragraph (2)(G)1. of this rule, may take an enforcement action pursuant to sections 260.410, 260.420 and 260.425, RSMo, as it deems appropriate under the circumstances in order to fully and effectively protect public health and the environment.

(H) Habitual Violators. This subsection describes how the department shall determine whether a hazardous waste management facility permit applicant is an habitual violator for purposes of implementing section 260.395.16., RSMo. This subsection applies to the issuance, reissuance or total modification of a hazardous waste management facility permit and to a hazardous waste resource recovery facility for the activities subject to permit requirements in 10 CSR 25-7.264.

1. The department shall consider the applicant’s prior operating history pursuant to section 260.395.16., RSMo during the review of an application for a permit to operate a hazardous waste management or commercial polychlorinated biphenyl (PCB) facility. All documentation required by this sub-

section shall be submitted along with the information specified in 40 CFR part 270 subparts B and D incorporated by reference in section (1) of this rule and modified in subsection (2)(B) of this rule, paragraph (2)(D)1. of this rule and 10 CSR 25-13.010(9)(B).

2. Definitions. The definitions in this paragraph apply to subsection (2)(H) of this rule.

A. Facility, for purposes of calculating violations as required in paragraph (2)(H)5. of this rule, means each permitted, licensed interim status, unpermitted or unlicensed hazardous waste management or commercial PCB facility, solid waste disposal area, solid waste processing facility, certified hazardous waste resource recovery facility, or solid or hazardous waste transporter or transfer station.

B. Person, in addition to the definition in section 260.360(17) RSMo, shall mean an officer or management employee of the applicant, any officer or management employee of any corporation or business which owns an interest in the applicant any officer or management employee of any business in which an interest is owned by any person, corporation or business which owns an interest in the applicant, or any officer or management employee of any corporation or business in which an interest is owned by the applicant.

C. Management employee means any individual, including a supervisor, who has the authority to serve as an agent for the employer in that the employee has the authority to perform or effectively recommend any one (1) or more of the following actions: hiring, firing, assigning or directing other employees with respect to waste management operations.

D. Violation means any one (1) or more of the following actions or an equivalent action by this or another regulatory agency or competent authority in response to any violation of the Missouri solid or hazardous waste management law, the solid or hazardous waste management law of another state or any federal law governing the management of solid waste, hazardous waste, PCB material or PCB units:

- (I) Final administrative order;
- (II) Final permit revocation;
- (III) Final permit suspension;
- (IV) Civil judgment against the applicant;
- (V) Criminal conviction; or
- (VI) Settlement agreement in connection with a civil action which has been filed in court.

E. Interest, as used in “owning an interest in,” means having control of at least seven and one-half percent (7.5%) of an



applicant or person as defined in subparagraph (2)(H)2.B. of this rule. This is determined by multiplying the percentages of ownership at each successive level and comparing this result to a seven and one-half percent (7.5%) cutoff level. For city, county, state, federal, and military-owned facilities, interest, or owning an interest in, is defined as one (1) level above or below the facility applying for the permit. (For example, a military-owned facility shall consider one (1) command level above the base on which the facility will be operated as having an interest in the facility. Likewise, the "command" shall consider itself as having an interest in all facilities within the command).

F. Habitual violator means a person who has failed the habitual violator test set out in paragraph (2)(H)5. of this rule.

3. For the purpose of this subsection, any administrative action or order, judgment or criminal conviction that has been ruled on appeal in favor of the applicant by a final decision of a competent authority will not be considered to be a violation. If the applicant has an appeal pending, the outcome of which will affect the issuance of a permit, the department shall delay issuance of the permit until a final decision is rendered.

4. The permit applicant shall submit the following information on the Habitual Violator Disclosure Statement form provided by the department and published in the appendix to this rule as part of the permit application:

A. Names and addresses of all persons meeting any of the following criteria:

(I) Any person who owns an interest in the applicant;

(II) Any person in whom an interest is owned by any person who owns an interest in the applicant; and

(III) Any person in whom the applicant owns an interest;

B. A list of all solid waste management, infectious waste management, commercial PCB management and hazardous waste management permits (Part A and Part B), licenses, certifications or equivalent documents held within the last ten (10) years by the applicant or any person(s) reported under subparagraph (2)(H)4.A. of this rule, for the operation or post-closure of a solid waste management, infectious waste management, commercial PCB or hazardous waste management facility, or a combination of these, as defined in subparagraph (2)(H)2.A. of this rule, in Missouri or in the United States and for each provide the following information:

(I) Permit or identification number;

(II) Type of permit, license, certification or equivalent document and dates held;

(III) Name(s) of the person(s) to whom each permit, license, certification or equivalent document was issued;

(IV) Address or location of each facility; and

(V) Issuing agency;

C. The structure of the applicant in relation to any person(s) reported in accordance with subparagraph (2)(H)4.A.;

D. Names and addresses of the officers and management employees of any person(s) reported in accordance with subparagraph (2)(H)4.A.;

E. A list of all violations, including the identification of any action for which an appeal or final judgment is pending, as defined in subparagraph (2)(H)2.D. of this rule cited within ten (10) years preceding the date of the permit application incurred by any persons required to be reported under subparagraph (2)(H)4.A. or (2)(H)4.D. of this rule. Each listing shall include the following information:

(I) Dates of violations;

(II) A brief description of each violation, including the type of regulatory action taken;

(III) Statutory or regulatory references, or both, to each specific statute or administrative rule that was violated;

(IV) Name and location of the facility cited; and

(V) Name and address of the issuing agency, and name and address of any competent authority with final jurisdiction regarding each violation.

F. A brief description of all incidents in which any person(s) reported under subparagraph (2)(H)4.A or (2)(H)4.D. of this rule have been adjudged in contempt of any court order enforcing the provisions of any state's solid or hazardous waste laws, or federal laws pertaining to hazardous waste;

G. A listing of all facilities as defined at (2)(H)2.A. owned or operated by any person required to be reported at (2)(H)4.A. or (2)(H)4.D. A brief justification as to why the facility has been included on the listing; and

H. All other information requested by the department necessary for the department to conduct an evaluation of the overall operating history of the applicant.

5. The habitual violator test.

A. A total of calculated violations shall be determined by the following formula: Number of violations (as defined in subparagraph (2)(H)2.D. of this rule), occurring within the ten (10) years preceding the date of the permit application, incurred by any person required to be reported under (2)(H)4.A. or (2)(H)4.D., divided by the total number of facilities (as defined in subparagraph

(2)(H)2.A. of this rule) equals the number of calculated violations.

$$\frac{\text{Number of Violations}}{\text{Total Number of Facilities}} = \text{Calculated Violations}$$

B. If the total of calculated violations is two (2.0) or less, the applicant has passed the habitual violator test. If the total of calculated violations is greater than two (2.0), the department will notify the applicant of his/her score. Upon receipt of notification, the applicant shall have thirty (30) days to produce clear and convincing evidence to the department which demonstrates that the applicant is not an habitual violator. The department shall determine whether the evidence is clear and convincing for the purpose of the habitual violator determination. If the evidence produced by the applicant is not found to be clear and convincing, or if no evidence is produced, the department will determine the applicant to be an habitual violator, and the department will notify the applicant of permit denial. If the evidence produced by the applicant is found to be clear and convincing, the department may determine that the applicant has not failed the habitual violator test (if the department determines the applicant has failed, a notice of denial will be sent to the applicant by the department) only after the department has considered the following factors:

(I) The nature and severity of violations;

(II) Any substantial realignment of corporate structure or corporate philosophy, or both;

(III) Any significant pattern of improved environmental compliance;

(IV) The complexity of the facilities and the volume of waste handled; and

(V) Any other relevant factors presented as evidence.

6. The department shall deny a permit for failure of the applicant to provide the required information or for submission of false information.

7. The department may deny a permit for failure of the applicant to provide complete information when submission of the information is required by this rule.

8. The department shall deny a permit if the applicant has failed the habitual violator test specified in paragraph (2)(H)5. of this rule.

9. The department shall not issue a permit to an applicant or a person who has offered in person or through an agent any inducement, including any discussion of possible employment opportunities, to any department employee when that person has



an application for a permit pending or a permit under review. Distribution of job announcements from an applicant to the department, which are made in the regular course of business and are intended for general dissemination, shall not be considered improper inducements.

10. The department shall deny a permit if any person(s) reported in accordance with subparagraph (2)(H)4.A. or (2)(H)4.D of this rule has been adjudged in contempt of any court order enforcing the provisions of any state's solid or hazardous waste management laws, or federal laws pertaining to hazardous waste.

11. Any person aggrieved by a permit denial under this subsection may appeal the decision by filing a petition with the Missouri Hazardous Waste Management Commission within thirty (30) days of notice of denial. The appeal hearing shall be conducted in accordance with section 260.400, RSMo and 10 CSR 25-8.124(2).

(I) Restraint of Trade.

1. Any person, as defined in section 260.379.1, RSMo, applying for a permit to operate a hazardous waste treatment, storage or disposal facility shall notify the director of any conviction occurring after July 9, 1990, for any crimes or criminal acts specified in section 260.379, RSMo. The person shall include any crimes or criminal acts for which an appeal or about which a final judgment is pending. The applicant shall submit this information with the permit application. Any person with a permit application pending, or to whom a permit has been granted, shall notify the department within thirty (30) days of the conviction or plea. The information shall be submitted in the form of a disclosure statement worded as specified in paragraph (2)(I)4. and shall include the following information:

- A. Date of conviction or plea;
 - B. The specific charge and statutory citation;
 - C. Statutory or regulatory references, or both, and citations to each specific statute or administrative rule that was violated;
 - D. Name and location of each facility or person cited;
 - E. Name and address of the court;
- and
- F. Any other information requested by the department.

2. The department shall deny, suspend, revoke or not renew a permit if the applicant or permittee fails to submit the required information, the information submitted is false, or the applicant or permittee exceeds the number of convictions allowed under section 260.379, RSMo.

3. Rehabilitation and reinstatement.

A. A person may apply to the department for reinstatement of a permit that has been revoked under the provisions of subsection (2)(I) of this rule and section 260.379, RSMo no sooner than five (5) years after revocation. The person shall demonstrate to the department that s/he had no convictions or pleas for any crimes or criminal acts as specified in section 260.379, RSMo in any court in any state, or any federal court, within five (5) years preceding the request for reinstatement. The person shall also prove that no litigation or appeal is pending against the person for any crimes or criminal acts specified in section 260.379, RSMo.

B. If the permit is reinstated, the permittee, for a period of five (5) years from the date of reinstatement, shall file semi-annual disclosure statements prepared in accordance with the requirements of this subsection (2)(I).

C. If any conviction or plea for the acts specified in section 260.379, RSMo is entered in any court in any state during the five (5)-year period immediately following reinstatement, the reinstated permit shall be revoked for a period of at least five (5) years. Following this five (5)-year period, the person may reapply for reinstatement of the permit.

4. The disclosure statement specified in paragraph (2)(I)1. of this rule shall be worded as follows, except that instructions in parentheses are to be replaced with the relevant information, and the parentheses deleted:

(Name of permit applicant) (insert, "EPA Identification Number _____," if applicable) hereby certifies that the following list contains all instances in which any person, as defined by section 260.379.1, RSMo, has been convicted or pled to any crimes or criminal acts an element of which involves restraint of trade, price-fixing, intimidation of the customers of any person or for engaging in any other acts which may have the effect of restraining or limiting competition concerning activities regulated under Chapter 260, RSMo, or similar laws of other states or the federal government; except that convictions for violations by entities purchased or acquired by an applicant or permittee which occurred prior to the purchase or acquisition, shall not be included. (For each conviction or plea required to be reported, provide a listing of the information required in 10 CSR 25-7.270(2)(I)1.A.—F. If no conviction or plea is required to be reported, so state.)

I hereby certify the following:

a) The above information is complete and truthful as of the date this statement was signed;

b) The wording of this disclosure statement is identical to the wording specified in 10 CSR 25-7.270(2)(I)4. on the date this statement was signed; and

c) In such matters, I, the undersigned, do have the authority to act as agent for the permit applicant.

(Signature)

(Name)

(Title)

(Date)

(Seal)

(Notary seal and signature)

AUTHORITY: sections 260.370, RSMo Supp. 1997 and 260.390 and 260.395, RSMo 1994. Original rule filed Dec. 16, 1985, effective Oct. 1, 1986. Amended: Filed Feb. 3, 1987, effective Aug. 1, 1987. Amended: Filed Dec. 1, 1987, effective Aug. 12, 1988. Amended: Filed Feb. 16, 1990, effective Dec. 31, 1990. Amended: Filed Jan. 15, 1991, effective Aug. 1, 1991. Amended: Filed Feb. 14, 1992, effective Dec. 3, 1992. Amended: Filed Jan. 5, 1993, effective Aug. 9, 1993. Amended: Filed June 3, 1993, effective Jan. 31, 1994. Amended: Filed Jan. 5, 1994, effective Aug. 28, 1994. Amended: Filed April 4, 1994, effective Oct. 30, 1994. Amended: Filed Aug. 16, 1995, effective April 30, 1996. Amended: Filed June 1, 1998, effective Jan. 30, 1999.*

**Original authority: 260.370, RSMo 1977, amended 1980, 1988, 1993, 1995; 260.390, RSMo 1977, amended 1980, 1983, 1985, 1993; and 260.395, RSMo 1977, amended 1980, 1983, 1985.*