

Code of federal regulations

Protection of
Environment

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PARTS 190 TO 299
Revised as of July 1, 1989



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ENVIRONMENTAL DIVISION
RESOURCE CENTER**

(for persons who store) of this chapter;

(c) Persons who store recycled materials that are regulated under this subpart must keep the following records to document that they are not accumulating these materials speculatively (as defined in § 261.1(c) of this chapter):

(1) Records showing the volume of these materials stored at the beginning of the calendar year;

(2) The amount of these materials generated or received during the calendar year; and

(3) The amount of materials remaining at the end of the calendar year.

(d) Recyclable materials that are regulated under this subpart that are accumulated speculatively (as defined in § 261.1(c) of this chapter) are subject to all applicable provisions of Parts 262 through 265, 270 and 124 of this chapter.

Subpart G—Spent Lead-Acid Batteries Being Reclaimed

§ 266.80 Applicability and requirements.

(a) The regulations of this subpart apply to persons who reclaim spent lead-acid batteries that are recyclable materials ("spent batteries"). Persons who generate, transport, or collect spent batteries, or who store spent batteries but do not reclaim them are not subject to regulation under Parts 262 through 266 or Part 270 or 124 of this chapter, and also are not subject to the requirements of section 3010 of RCRA.

(b) Owners or operators of facilities that store spent batteries before reclaiming them are subject to the following requirements.

(1) Notification requirements under section 3010 of RCRA;

(2) All applicable provisions in Subparts A, B (but not § 264.13 (waste analysis)), C, D, E (but not § 264.71 or § 264.72 (dealing with the use of the manifest and manifest discrepancies)), and F through L of Part 264 of this chapter;

[50 FR 666, Jan. 4, 1985, as amended at 50 FR 33543, Aug. 20, 1985]

PART 267—INTERIM STANDARDS FOR OWNERS AND OPERATORS OF NEW HAZARDOUS WASTE LAND DISPOSAL FACILITIES

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AUTHORITY: Secs. 1006, 2202(a), 3004 and 3005 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended, 42 U.S.C. 6905, 6912(a), 6924 and 6925.

SOURCE: 46 FR 12429, Feb. 13, 1981, unless otherwise noted.

Subpart A—General

§ 267.1 Purpose, scope and applicability.

(a) The purpose of this part is to establish minimum national standards that define the acceptable management of hazardous waste for new land disposal facilities.

(b) The regulations in this part apply to owners and operators of new hazardous waste landfills, surface impoundments, land treatment facilities and Class I underground injection wells (as defined in § 122.32(g) of this chapter) that require individual RCRA permits under 40 CFR Part 122.

(c) The requirements of this part do not apply to:

(1) A person disposing of hazardous waste by means of ocean disposal subject to a RCRA permit by rule issued under § 122.26(a) of this chapter.

(2) A person disposing of hazardous waste by means of underground injection subject to a RCRA permit by rule under § 122.26(b) of this chapter.

(3) An owner or operator of a POTW subject to a RCRA permit by rule under § 122.26(c) of this chapter.

(4) The owner or operator of a facility permitted, licensed, or registered by a State to manage municipal or industrial solid waste, if the only hazardous waste the facility treats, stores, or disposes of is excluded from regulation under Parts 262 through 265 and Parts 122 and 124 of this chapter by § 261.5 of this chapter;

(5) The owner or operator of a facility which treats or stores hazardous waste, which treatment or storage meets the criteria in § 261.6(A) of this chapter, except to the extent that § 261.6(b) of this chapter provides otherwise;

(6) A generator accumulating waste on-site in compliance with § 262.34 of this chapter;

(7) A farmer disposing of waste pesticides from his own use in compliance with § 262.51 of this chapter;

(8) The owner or operator of a totally enclosed treatment facility, as defined in § 260.10;

(9) The owner or operator of an elementary neutralization unit or a wastewater treatment unit as defined in § 260.10 of this chapter.

(10) Persons with respect to those activities that are carried out to immediately contain or treat a spill of hazardous waste or material which, when spilled, becomes a hazardous waste.

§ 267.2 Applicability of Part 264 standards.

In addition to the standards contained in this part, owners and operators of new hazardous waste landfills, surface impoundments, land treatment facilities and underground injection wells must comply with § 264.18 and Subparts B, C, D, E, G and H of Part 264.

§ 267.3 Duration of Part 267 standards and their relationship to permits.

(a) The regulations in this subpart are applicable, and will serve as a basis for issuing permits, to owners or operators of new hazardous waste landfills, surface impoundments, land treatment facilities, or underground injection facilities until final Part 264 regulations for such facilities become effective or until February 13, 1983, whichever is earlier.

(b) Only those owners and operators of new hazardous waste landfills, surface impoundments, land treatment facilities or underground injection wells who have applied for a permit and for whom public notice of the preparation of a draft permit has been issued under § 124.10 of this chapter by the date final Part 264 regulations for these facilities become effective or [2 years after date of publication], whichever is earlier, may be issued permits under the regulations in this part.

§ 267.4 Imminent hazard action.

Notwithstanding any other provisions of these regulations, enforce-

ment actions may be brought pursuant to section 7003 of RCRA.

§ 267.5 Additional permit procedures applicable to Part 267.

(a) The procedures for issuance, modification, revocation and reissuance, and termination of permits under this part are set forth in Part 124 of this chapter. In addition, the following procedures apply to permits under Part 267:

(1) Any facility for which a draft permit is prepared pursuant to this Part is a major hazardous waste management facility. A fact sheet shall be prepared for each such facility in accordance with § 124.8. Instead of the "brief summary of the basis for the draft permit conditions" required by § 124.8(b)(4), the fact sheet shall include a detailed discussion of basis for the draft permit conditions. This shall include a demonstration that relevant factors listed in Subparts C through G of this part were considered and a showing of how the draft permit reflects these considerations.

(2) The Administrator shall accept any petition under § 124.19 of this chapter and any appeal under § 124.125 of this chapter to review a permit issued under this part.

(b) The provisions of Subparts A and B in Part 122 of this chapter apply to permits under Part 267. In addition to the information required by § 122.4 and § 122.25 of this chapter, the applications for permits under this part must include the following information:

(1) For a landfill, sufficient information to demonstrate compliance with Subparts C and F of this part.

(2) For a surface impoundment, sufficient information to demonstrate compliance with Subparts D and F of this part.

(3) For a land treatment facility, sufficient information to demonstrate compliance with Subparts E and F of this part.

(4) For an underground injection well, sufficient information to demonstrate compliance with Subpart G of this part.

§ 267.6 Definitions.

Unless otherwise specified in this part, terms used in this regulation are defined in §§ 260.10 and 122.3 of this chapter.

Subpart B—Environmental Performance Standard

§ 267.10 Environmental performance standard.

All new landfills, surface impoundments, land treatment facilities and underground injection wells shall be located, designed, constructed, operated, maintained and closed in a manner that will assure protection of human health and the environment. Protection of human health and the environment shall include, but not be limited to:

(a) Prevention of adverse effects on ground-water quality considering:

(1) The volume and physical and chemical characteristics of the waste in the facility, including its potential for migration through soil or through synthetic liner materials;

(2) The hydrogeological characteristics of the facility and surrounding land;

(3) The quantity, quality and directions of ground-water flow;

(4) The proximity and withdrawal rates of ground-water users;

(5) The existing quality of ground-water, including other sources of contamination and their cumulative impact on the ground-water;

(6) The potential for health risks caused by human exposure to waste constituents;

(7) The potential damage to wildlife, crops, vegetation and physical structures caused by exposure to waste constituents;

(8) The persistence and permanence of the potential adverse effects; and

(b) Prevention of adverse effects on surface water quality considering:

(1) The volume and physical and chemical characteristics of the waste in the facility;

(2) The hydrogeological characteristics of the facility and surrounding land, including the topography of the area around the facility;

(3) The quantity, quality and directions of groundwater flow;

(4) The patterns of rainfall in the region;

(5) The proximity of the facility to surface waters;

(6) The uses of nearby surface waters and any water quality standards established for those surface waters;

(7) The existing quality of surface water, including other sources of contamination and their cumulative impact on surface water;

(8) The potential for health risks caused by human exposure to waste constituents;

(9) The potential damage to wildlife, crops, vegetation and physical structures caused by exposure to waste constituents;

(10) The persistence and permanence of the potential adverse effects; and

(c) Prevention of adverse effects on air quality, considering:

(1) The volume and physical and chemical characteristics of the waste in the facility, including its potential for volatilization and wind dispersal;

(2) The existing quality of the air, including other sources of contamination and their cumulative impact on the air;

(3) The potential for health risks caused by human exposure to waste constituents;

(4) The potential damage to wildlife, crops, vegetation and physical structures caused by exposure to waste constituents;

(5) The persistence and permanence of the potential adverse effects; and

(d) Prevention of adverse effects due to migration of waste constituents in the subsurface environment, considering:

(1) The volume and physical and chemical characteristics of the waste in the facility, including its potential for migration through soil;

(2) The geologic characteristics of the facility and surrounding land;

(3) The patterns of land use in the region;

(4) The potential for migration of waste constituents into sub-surface physical structures;

(5) The potential for migration of waste constituents into the root zone of food-chain crops and other vegetation;

(6) The potential for health risks caused by human exposure to waste constituents;

(7) The potential damage to wildlife, crops, vegetation and physical structures caused by exposure to waste constituents; and

(8) The persistence and permanence of the potential adverse effects.

Subpart C—Landfills

§ 267.20 Applicability.

The regulations in this subpart apply to owners and operators of new facilities that dispose of hazardous waste in landfills.

§ 267.21 General design requirements.

(a) Each landfill must include a liner designed to comply with § 267.10 of this part. The design of the facility liner must reflect a consideration of:

(1) The physical and chemical characteristics of the waste in the facility;

(2) The pressure head of leachate on the liner;

(3) Climatic conditions in the area;

(4) The permeability of the liner material, including compaction density and moisture content where earthen materials are present;

(5) The physical and chemical properties of the soil underlying the facility that supports any emplaced liner; and

(6) The potential for damage to the liner system that could occur during installation of any emplaced liner.

(b) Each landfill must include a leachate and runoff control system designed to comply with § 267.10 of this part. The design of the facility leachate and runoff control system must reflect a consideration of:

(1) The physical and chemical characteristics of the waste in the facility;

(2) Climatic conditions in the area;

(3) The volume of leachate or contaminated runoff that could be produced at the facility; and

(4) The available options for managing any leachate or contaminated runoff that is collected at the facility.

§ 267.22 General operating requirements.

(a) Incompatible wastes, or incompatible waste and materials, must not be placed in the same landfill, unless § 264.17(b) is complied with. The waste analysis plan required by § 264.13 must include the analysis needed to comply with this paragraph.

(b) Any emplaced liner material must be installed in a manner that will protect the function and physical integrity of the liner.

(c) The leachate and runoff control system must be operated and maintained in a manner that will comply with § 267.10 of this part. The procedures for operating the leachate and runoff control system must reflect a consideration of:

(1) The volume of leachate or contaminated runoff produced at the facility;

(2) The capacity of any leachate or runoff collection device at the facility;

(3) Climatic conditions in the area; and

(4) The quality of the leachate or runoff produced and the available alternatives for managing any leachate or contaminated runoff produced at the facility.

(d) The landfill must be inspected at a sufficient frequency to assure compliance with § 267.10 of this part.

§ 267.23 Closure and post-closure.

(a) A landfill must be closed in a manner that will comply with § 267.10 of this part. Closure must include placement of a final cover over the landfill, and the closure plan under § 264.112 of this chapter must specify the function and design of the cover. Proper closure of a landfill must reflect a consideration of:

(1) The type and amount of waste in the facility;

(2) The mobility and expected rate of migration of waste;

(3) Site location, topography and surrounding land use;

(4) Climatic conditions in the area;

(5) Characteristics of the cover including material, final surface contours, thickness, porosity and permeability, slope, length of run of slope, and type of vegetation on the cover; and

(6) Geological and soil profiles and surface and subsurface hydrology of the site.

(b) A landfill must be maintained in a manner that complies with § 267.10 of this part during the post-closure period. The post-closure plan under § 264.118 of this chapter must specify the procedures that will be used to satisfy this paragraph. Proper maintenance of a landfill during the post-closure period must reflect a consideration of:

(1) The type and amount of waste in the facility;

(2) The mobility and expected rate of migration of the waste;

(3) Site location, topography and surrounding land use;

(4) Climatic conditions in the area;

(5) Characteristics of the cover including material, final surface contours, thickness, porosity and permeability, slope, length of run of slope, and type of vegetation on the cover;

(6) Geological and soil profiles and surface and subsurface hydrology of the site; and

(7) The maintenance of any groundwater monitoring system or leachate and runoff control system at the facility.

§ 267.24 Treatment of waste.

The Regional Administrator may waive any of the requirements in §§ 267.21, 267.22 or 267.23 of this subpart where necessary to achieve treatment of hazardous waste in a landfill, provided that the waiver does not result in noncompliance with § 267.10.

§ 267.25 Additional requirements.

The Regional Administrator may place additional requirements on owners and operators of new landfills, besides those otherwise required by this subpart, where necessary to comply with § 267.10 of this part.

Subpart D—Surface Impoundments

§ 267.30 Applicability.

The regulations in this subpart apply to owners and operators of new facilities that dispose of hazardous waste in surface impoundments.

§ 267.31 General design requirements.

(a) Each surface impoundment must include a liner designed to comply with § 267.10 of this part. The design of the facility liner must reflect a consideration of:

- (1) The physical and chemical characteristics of the waste in the facility;
- (2) The pressure head on the liner;
- (3) Climatic conditions in the area;
- (4) The permeability of the liner material, including compaction density and moisture content where earthen materials are present;
- (5) The physical and chemical properties of the soil underlying the facility that supports any emplaced liner; and

(6) The potential for damage to the liner system that could occur during installation of any emplaced liner.

(b) Each surface impoundment must be designed so as to prevent overtopping due to wind and wave action, overfilling, precipitation or any combination thereof.

(c) Where dikes are part of the surface impoundment, the dikes must be designed to comply with § 267.10 of this part. The design of any facility dikes must reflect a consideration of:

- (1) The structural integrity of the dike, including the effects of plants and burrowing animals on earthen dikes;
- (2) The potential for water erosion of the dike; and
- (3) The potential for wind erosion of the dike.

§ 267.32 General operating requirements.

(a) Incompatible wastes, or incompatible wastes and materials, must not be placed in the same surface impoundment, unless § 264.17(b) is complied with. The waste analysis plan required by § 264.13 must include the analyses needed to comply with this paragraph.

(b) Any emplaced liner material must be installed in a manner that will protect the function and physical integrity of the liner.

(c) The surface impoundment must be operated so as to prevent overtopping due to wind and wave action, overfilling, precipitation or any combination thereof.

(d) The surface impoundment must be inspected at a sufficient frequency to assure compliance with § 267.10 of this part.

§ 267.33 Closure and post-closure.

(a) A surface impoundment must be closed in a manner that will comply with § 267.10 of this part. Closure must include placement of a final cover over the surface impoundment, and the closure plan under § 264.112 of this chapter must specify the function and design of the cover. Proper closure of a surface impoundment must reflect a consideration of:

- (1) The type and amount of waste in the facility, including the amount of free liquids;
- (2) The mobility and expected rate of migration of the waste;
- (3) Site location, topography and surrounding land use;
- (4) Climatic conditions in the area;
- (5) Characteristics of the cover including material, final surface contours, thickness, porosity and permeability, slope, length of run of slope and type of vegetation on the cover;
- (6) Geological and soil profiles and surface and subsurface hydrology of the site; and
- (7) The potential for eliminating free liquids from the facility.

(b) A surface impoundment must be maintained in a manner that complies with § 267.10 of this part during the post-closure period. The post-closure plan under § 264.118 of this chapter must specify the procedures that will be used to satisfy this paragraph. Proper maintenance of a surface impoundment during the post-closure period must reflect a consideration of:

- (1) The type and amount of waste in the facility;
- (2) The mobility and expected rate of migration of the waste;
- (3) Site location, topography and surrounding land use;
- (4) Climatic conditions in the area;
- (5) Characteristics of the cover including material, final surface contours, thickness, porosity and permeability, slope, length of run of slope, and type of vegetation on the cover;

(6) Geological and soil profiles and surface and subsurface hydrology of the site; and

(7) The maintenance of any ground-water monitoring system at the facility.

§ 267.34 Treatment of waste.

The Regional Administrator may waive any of the requirements in §§ 267.31, 267.32 or 267.33 of this subpart where necessary to achieve treatment of hazardous waste in a surface impoundment, provided that the waiver does not result in noncompliance.

§ 267.35 Additional requirements.

The Regional Administrator may place additional requirements on owners and operators of new surface impoundments, besides those otherwise required by this subpart, where necessary to comply with § 267.10 of this part.

Subpart E—Land Treatment

§ 267.40 Applicability.

The regulations in this subpart apply to owners and operators of new facilities that dispose of hazardous waste in land treatment facilities.

§ 267.41 General design requirements.

Each land treatment facility must include a runoff control system designed to comply with § 267.10 of this part. The design of the facility runoff control system must reflect a consideration of:

(a) The physical, biological and chemical characteristics of the waste in the facility;

(b) Climatic conditions in the area;

(c) The volume of runoff that could be produced at the facility; and

(d) The available options for managing any contaminated runoff that is collected at the facility.

§ 267.42 General operating requirements.

(a) Incompatible wastes, or incompatible wastes and materials, must not be placed in the same land treatment facility, unless § 264.17(b) is complied with. The waste analysis plan required

by § 264.13 must include the analyses needed to comply with this paragraph.

(b) The runoff control system must be operated and maintained in a manner that will comply with § 267.10 of this part. The procedures for operating the runoff control system must reflect a consideration of:

(1) The volume of contaminated runoff produced at the facility;

(2) The capacity of any runoff collection device at the facility;

(3) Climatic conditions in the area; and

(4) The quality of the runoff produced and the available options for managing any contaminated runoff from the facility.

(c) The land treatment facility must be operated to treat the waste in the facility to the extent necessary to comply with § 267.10 of this part.

(d) If food-chain crops are grown at the facility, the facility must be operated in a manner designed to protect the quality of those crops to the extent necessary to comply with § 267.10 of this part. Proper operation of a land treatment facility on which food-chain crops are grown must reflect a consideration of:

(1) The characteristics of the soil, including the pH;

(2) The volume and chemical, biological and physical characteristics of the waste in the facility;

(3) The type of crop to be grown;

(4) The manner in which such crop marketed (e.g. direct sale to consumers, use as an animal feed grain);

(5) The potential future uses of the facility;

(6) The potential for crop uptake of waste constituents; and

(7) The potential exposure of workers who handle the crop to waste constituents.

(e) The treatment facility must be inspected at a sufficient frequency to assure compliance with § 267.10 of this part.

§ 267.43 Unsaturated zone monitoring.

In addition to the ground-water monitoring program required in Subpart F of this part, a land treatment facility must have an unsaturated zone monitoring program which will

assure compliance with § 267.10. An unsaturated zone monitoring program must include an unsaturated zone monitoring system at the facility or at a representative test plot, as well as procedures for sampling, analysis and evaluation of data. The unsaturated zone monitoring program required by this paragraph must reflect a consideration of:

(a) The placement and depth of monitoring wells that is necessary to obtain a representative sample of the success of waste treatment in the facility;

(b) Soil characteristics, including its pH, its permeability and the level of microbial activity in the soil;

(c) Climatic conditions in the area;

(d) The potential for rapid migration of waste constituents through the soil; and

(e) The accessibility of the monitoring system devices for maintenance and repair.

§ 267.44 Closure and post-closure.

(a) A land treatment facility must be closed in a manner that will comply with § 267.10 of this part. The closure plan under § 264.112 of this chapter must specify the measures which will be used to satisfy this paragraph. Proper closure of a land treatment facility must reflect a consideration of:

(1) The type and amount of waste applied to the facility;

(2) The mobility and expected rate of migration of the waste;

(3) Site location, topography and surrounding land use;

(4) Climatic conditions in the area, including the amount, frequency and pH of precipitation;

(5) Geologic and soil profiles and surface and subsurface hydrology of the site, including cation exchange capacity, total organic carbon and pH of the soil; and

(6) Unsaturated zone monitoring information obtained under § 267.43.

(b) A land treatment facility must be maintained in a manner that complies with § 267.10 of this part during the post-closure period. The post-closure plan under § 264.118 of this chapter must specify the procedures that will be used to satisfy this paragraph. Proper maintenance of a land treat-

ment facility during the post-closure period must reflect a consideration of:

(1) The type and amount of waste applied to the facility;

(2) The mobility and expected rate of migration of the waste;

(3) Site location, topography and surrounding land use;

(4) Climatic conditions in the area, including the amount, frequency and pH of precipitation;

(5) Geologic and soil profiles and surface and subsurface hydrology of the site, including cation exchange capacity, total organic carbon and pH of the soil;

(6) Unsaturated zone monitoring information obtained under § 267.43; and

(7) The maintenance of any ground-water monitoring system at the facility.

§ 267.45 Treatment of waste.

The Regional Administrator may waive any of the requirements in § 267.21, § 267.22 or § 267.23 of this subpart where necessary to achieve treatment of hazardous waste in a land treatment facility, provided that the waiver does not result in non-compliance with § 267.10.

§ 267.46 Additional requirements.

The Regional Administrator may place additional requirements on owners or operators of new land treatment facilities, besides those otherwise required by this subpart, where necessary to comply with § 267.10 of this part.

Subpart F—Ground-Water Monitoring

§ 267.50 Applicability.

Each new hazardous waste landfill, surface impoundment, or land treatment facility must have a ground-water monitoring program, which includes a ground-water monitoring system, procedures for sampling, analysis and evaluation of ground-water data, and appropriate response procedures.

§ 267.51 Ground-water monitoring system.

The ground-water system required by this subpart must be capable of de-

termining the facility's impact on ground-water in the uppermost aquifer so as to assure compliance with § 267.10 of this part. The design of the ground-water monitoring system must reflect a consideration of:

(a) The placement and depth of monitoring wells that is necessary to obtain a representative sample of constituents in the uppermost aquifer, including those present in the ground-water upgradient from the facility;

(b) Measures such as casing which maintain the integrity of the monitoring well bore hole; and

(c) Measures which prevent contamination of ground-water samples.

§ 267.52 Ground-water monitoring procedures.

(a) The ground-water monitoring procedures required by this subpart must be capable of assuring compliance with § 267.10 of this part. The procedures must reflect a consideration of:

- (1) Sample collection procedures;
- (2) Sample preservation and shipment procedures;
- (3) Analytical methods;
- (4) Chain of custody control; and
- (5) Evaluation procedures, including methods for determining the extent and rate of migration of waste constituents.

(b) The ground-water monitoring procedures required by this subpart must include appropriate procedures for when the ground-water monitoring program indicates that the facility is not in compliance with § 267.10 of this part. Such response procedures must be contained in the contingency plan required by Subpart D of Part 264.

§ 267.53 Additional requirements.

The Regional Administrator may place additional ground-water monitoring requirements on owners or operators of facilities subject to this part, besides those otherwise required by this subpart, where necessary to comply with § 267.10 of this part.

Subpart G—Underground Injection

§ 267.60 Applicability.

The regulations in this subpart apply to owners and operators of new

facilities that dispose of hazard waste in underground injection wells which are classified as Class I under § 122.32(a) of this chapter.

§ 267.61 General design requirements.

An injection well must be designed to comply with § 267.10 of this part. The facility design must include measures (e.g. casing, tubing and packer set) to prevent the escape of injected fluids to the area above the zone of injection.

§ 267.62 General operating requirements.

An injection well must be operated in a manner that will comply with § 267.10 of this part. The methods for operating the injection well must reflect a consideration of:

- (a) The volume and physical and chemical characteristics of the waste injected in the well;
- (b) The injection pressure; and
- (c) Monitoring measures to assure that the mechanical integrity of the well is maintained.

§ 267.63 Closure.

An injection well must be plugged and sealed at closure to prevent the escape of injected fluids to the area above the zone of injection.

§ 267.64 Additional requirements.

The Regional Administrator may place additional requirements on owners and operators of new injection wells, besides those otherwise required by this subpart, where necessary to comply with § 267.10 of this part.

PART 268—LAND DISPOSAL RESTRICTIONS

Subpart A—General

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