

Chapter NR 514

PLAN OF OPERATION AND CLOSURE PLANS FOR
LANDFILLS

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NR 514.01 Purpose. The purpose of this chapter is to help ensure that efficient, nuisance-free and environmentally acceptable solid waste management procedures are practiced in Wisconsin and to outline the requirements for preparation of plans of operation and closure plans for solid waste facilities. This chapter is adopted under ss. 144.43 to 144.47 and 227.11, Stats.

History: Cr. Register, January, 1988, No. 385, eff. 2-6-88.

NR 514.02 Applicability. (1) Except as otherwise provided, this chapter governs all solid waste disposal facilities as defined in s. 144.43 (5), Stats., except hazardous waste facilities as defined in s. 144.61 (5m), Stats., and regulated under ch. NR 181, and metallic mining operations as defined in s. 144.81 (5), Stats., and regulated under ch. NR 182.

(2) This chapter does not apply to the design, construction or operation of industrial wastewater facilities, sewerage systems and waterworks treating liquid wastes approved under s. 144.04, Stats., or permitted under ch. 147, Stats., nor to facilities used solely for the disposal of liquid municipal or industrial wastes which have been approved under s. 144.04, Stats., or permitted under ch. 147, Stats., except for facilities used for the disposal of solid waste.

History: Cr. Register, January, 1988, No. 385, eff. 2-6-88.

NR 514.03 Definitions. The terms used in this chapter are defined in s. NR 500.03.

History: Cr. Register, January, 1988, No. 385, eff. 2-6-88.

NR 514.04 Procedural requirements. (1) **GENERAL.** No person may establish or construct a facility for the land disposal of solid waste or expand an existing land disposal facility until a plan of operation has been submitted in accordance with s. NR 500.05 and this chapter and has been approved in writing by the department. No person may establish, construct or close an approved facility for the land disposal of solid waste except in accordance with this chapter, s. NR 506.08 and with the approved plan of operation. No person may submit a plan of operation for a new or expanded solid waste disposal facility prior to the submittal of a feasibility report by that person.

(2) **DATA PRESENTATION.** All plans of operation for land disposal facilities shall contain the complete plans and specifications necessary for the construction, operation, monitoring, closing and long-term care of the facility. Because these documents are to be used for the day-to-day construction, operation and closure of the facility, the information must be presented in a manner that is clear and understandable.

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(3) **COMPLETENESS.** Within 30 days after a plan of operation is submitted or, if the plan of operation is submitted with the feasibility report, within 30 days after the department issues notice that the feasibility report is complete, the department shall provide written notification to the applicant and any other person who has filed a written request whether or not the plan of operation is complete. If the submittal is deemed incomplete, the department will specify the information which must be submitted before the plan may be deemed complete. The department will determine if the plan of operation is complete by determining whether or not the minimum requirements of this chapter and the conditions of any feasibility approval have been met. The department may require the applicant to submit additional information after determining that the plan of operation is complete if the department establishes that the plan of operation is insufficient without the additional information.

(4) **REVIEW TIMES.** The department may not approve or disapprove a plan of operation until after the applicant obtains a favorable determination of feasibility for the facility. The department shall either approve or disapprove the plan in writing within 90 days after submission of a complete plan of operation or within 60 days after a favorable determination of feasibility, whichever is later.

(5) **PLAN APPROVAL MODIFICATIONS.** Any proposed changes to the approved plan shall be submitted to and approved by the department prior to implementation.

History: Cr. Register, January, 1988, No. 385, eff. 2-6-88.

NR 514.05 Engineering plans. The plan of operation shall contain a set of engineering plans which are drawn on standard 24 inch by 36 inch plan sheets, unless an alternative size is approved by the department, in accordance with ss. NR 500.05, 504.05, 504.07 and the following requirements. All plan sheets except the title sheet, existing conditions sheet, cross-sections and details sheets shall utilize the existing conditions sheet as a base map.

(1) **TITLE SHEET.** A title sheet shall be included indicating the project title, who prepared the plans, the date the plans were prepared, the applicant for whom the plans were prepared, a table of contents, a map showing the location of the facility within the county or multicounty area, the location of the county or multicounty area within the state and the area to be served.

(2) **EXISTING CONDITIONS.** An existing conditions plan shall be included consisting of a detailed topographic map of the proposed facility and all areas within 1,500 feet of the proposed limits of filling prior to development. The minimum scale shall be 1 inch @PE@@ 200 feet with a maximum 2 foot contour interval. The contour interval selected shall be sufficiently small to clearly show surface water flow patterns within and around the facility. All elevations shall be related to USGS datum. The plan shall identify and define the following:

- (a) Surface waters including intermittent and ephemeral streams and wetlands.
- (b) Property boundaries.
- (c) The proposed facility boundary.

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(a) A table of contents which shows the organization of the discussion required in this section.

(b) The facility title; engineering consultants; facility owner, licensee and operator; the location of the facility by quarter-quarter section, township, range, town and county; the amount and area of waste filling; the municipalities and industries served; the waste types and quantities disposed; surveying controls and adjacent land use.

(c) The existing surface topography and groundwater conditions at the facility shall be described in this report. This description shall include at a minimum a discussion of current operational practices and grades, the underlying soil types, the estimated base of waste disposal, the relation of the waste disposal limits to the local water table elevation, the volume and type of wastes in place, the volume and type of wastes proposed for disposal through facility closure and the potential for the waste to biologically decompose and generate gas. The discussion shall also evaluate and discuss all existing monitoring data. Particular attention shall be given to any attainment or exceedances of the groundwater standards contained in ch. NR 140 and the potential for gas migration.

(d) If any existing or anticipated non-compliance with the requirements of s. NR 504.04 are identified in the discussion of par. (c), the closure report shall present a proposal to prevent the non-compliance or return the facility to compliance.

(e) The proposed details of final facility closure regarding final cover system design as it affects surface water drainage, leachate and gas production and control shall be described in the closure design report. This discussion shall include a testing program to document all closure construction in accordance with ch. NR 516.

(f) A description of the logic of the monitoring plan proposal as required by sub. (2) (f)

History: Cr. Register, January, 1988, No. 385, eff. 2-6-88.

NR 514.08 Municipal solid waste combustor residue management plans.

(1) **GENERAL.** No person may establish, construct or operate a facility for the land disposal of municipal solid waste combustor residue or expand an existing facility for the land disposal of municipal solid waste combustor residue until a management plan has been submitted in accordance with s. NR 500.05 and this chapter and has been approved in writing by the department. The facility shall also have an approved plan of operation in accordance with ss. NR 514.04 to 514.06. The department may approve residue management plans for facilities which have approved plans which are substantially equivalent to the requirements of ss. NR 514.04 to 514.06. Any facility which accepts municipal solid waste combustor residue prior to June 1, 1992 and which continues to accept residues after January 1, 1992, shall submit a residue management plan in accordance with this section for review and approval no later than 3 months after June 1, 1992. No person may establish, construct, operate or close a facility for the land disposal of municipal solid waste combustor residue except in accordance with this chapter, ss. NR 504.08 and 506.15 and with the approved plan of operation.

(2) **RESIDUE SOURCES.** (a) All management plans for the land disposal of municipal solid waste combustor residue shall contain the name and

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location of the proposed sources and the expected volume from each source of municipal solid waste combustor residue to be accepted.

(b) All management plans for the land disposal of municipal solid waste combustor residue shall evaluate the results of the testing requirements of s. NR 502.14 (8) and any trends in the results from previous testing periods to determine the need for any changes to the proposed facility design or operation.

(3) **ENGINEERING PLAN.** The management plan shall contain a set of engineering plans which are drawn on standard 24 inch by 36 inch plan sheets, unless an alternative size is approved by the department, in accordance with ss. NR 500.05, 504.05, 504.07 and 504.08. The plan sheets shall specifically address the design requirements of s. NR 504.08 and include plan views, cross-sections and details as necessary to illustrate the applicable design features, including the composite liner and leachate collection system. Phasing plan sheets shall also be included to show facility development through time.

(4) **OPERATION MANUAL AND DESIGN REPORT.** The management plan shall contain an operations manual and design report which describes the daily operations including a discussion of the timetable for the phases of facility development; waste types accepted or excluded; typical waste handling techniques and methods for handling unusual waste types; hours of operation; traffic routing; drainage and erosion control; windy, wet and cold weather disposal operations; methods for dust control; and direction of filling. Methods to maintain compliance with the requirements of s. NR 506.15 shall also be described.

(5) **MONITORING.** The management plan shall include a proposed groundwater, unsaturated zone and leachate monitoring program which complies with the requirements of s. NR 508.04 (5).

History: Cr. Register, May, 1992, No. 437, eff. 6-1-92.