

# **15A NCAC 13B .0537 FACILITY PLAN FOR C&DLFS**

(a) Purpose. A permit applicant shall prepare a facility plan which meets the requirements of this Rule.

(b) Scope.

- (1) The facility plan shall define the comprehensive development of the property proposed for a permit or described in the permit of an existing facility. The plan shall include a set of drawings and a report that present the long-term, general design concepts related to construction, operation, and closure of the C&DLF unit(s). The scope of the plan shall span the active life of the unit(s). Additional solid waste management activities located at the C&DLF facility shall be identified in the plan and shall meet the requirements of this Subchapter. The facility plan shall define the waste stream proposed for management at the C&DLF facility. If different types of landfill units or non-disposal activities are included in the facility design, the plan shall describe general waste acceptance procedures.
- (2) The areal limits of the C&DLF unit(s), total capacity of the C&DLF unit(s), and the proposed waste stream shall be consistent with the Division's approval in accordance with Rule .0536(a)(1) of this Section for a new facility.

(c) Use of Terms. The terminology used in describing areas of the C&DLF unit(s) shall be defined as follows and shall be used consistently throughout a permit application:

- (1) "phase" means an area constructed that describes approximately five years of operating capacity. An applicant may request a permit to construct for any number of phases up to the entire extent of the disposal boundary for the life-of-site.
- (2) "cell" means a subdivision of a phase, which describes modular or partial construction.
- (3) "subcell" means a subdivision of a cell, which describes leachate and stormwater management, if required, for active or inactive areas of the constructed C&DLF.

(d) Facility Drawings. The facility plan shall include the following drawings:

- (1) Site Development. The drawings that plot site development shall be prepared on topographic maps representative of existing site conditions; and the maps shall locate or delineate the following:
  - (A) delineate the areal limits of all landfill units, and incorporate the buffer requirements set forth in Rule .0540(1) of this Section;
  - (B) locate all solid waste management facilities and facility infrastructure, including landfill units;
  - (C) delineate the areal limits of grading, including borrow and stockpile areas;
  - (D) define phases of development of approximately five years of operating capacity each;
  - (E) delineate proposed final contours for the C&DLF unit(s) and facility features for closure; and
  - (F) delineate physical features including floodplains, wetlands, unstable areas, and cultural resource areas as defined in Rule .0536(c) of this Section.
- (2) Landfill Operation. The following information related to the long-term operation of the C&DLF unit shall be included in facility drawings:
  - (A) proposed transitional contours for each phase of development including operational grades for existing phase(s) and construction grading for the new phase; and
  - (B) stormwater segregation features and details for inactive landfill subcells, if included in the design or required.
- (3) Survey. A survey locating all property boundaries for the proposed landfill facility certified by a licensed professional land surveyor if required by G.S. 89C.

(e) Facility Report. The facility plan shall include the following information:

- (1) Waste stream. A discussion of the characteristics of the wastes received at the facility and facility specific management plans shall incorporate:
  - (A) the types of waste specified for disposal;
  - (B) average yearly disposal rates in tons and a representative daily rate that is consistent with the local government approval in accordance with Rule .0536(c)(11) of this Section;
  - (C) the area served by the facility;
  - (D) procedures for segregated management at different on-site facilities; and
  - (E) equipment requirements for operation of the C&DLF unit(s).
- (2) Landfill Capacity. An analysis of landfill capacity and soil resources shall be performed.

- (A) The data and assumptions used in the analysis shall be included with the facility drawings and disposal rates specified in the facility plan and representative of operational requirements and conditions.
- (B) The conclusions shall provide estimates of gross capacity of the C&DLF unit; gross capacity for each phase of development of the C&DLF unit; the estimated operating life of all C&DLF units in years; required quantities of soil for landfill construction, operation, and closure; and available soil resources from on-site. "Gross capacity" is defined as the volume of the landfill calculated from the elevation of the initial waste placement through the top of the final cover, including any periodic cover.
- (3) Containment and environmental control systems. A general description of the systems designed for proper landfill operation, system components, and corresponding functions shall be provided.
- (4) Leachate management systems, if required in accordance with the effective dates and applicability requirements in S.L. 2007-550 s. 9.(b) and S.L. 2013-413 s. 59.1 as amended by S.L. 2013-410 s. 47.6, or if proposed by the applicant. The performance of and design concepts for the leachate collection system within active areas of the C&DLF unit(s) and any storm water segregation included in the engineering design shall be described. Normal operating conditions shall be defined. A contingency plan shall be prepared for storm surges or other considerations exceeding design parameters for the storage or treatment facilities.
- (5) Base liner systems, if required in accordance with the effective dates and applicability requirements in S.L. 2007-550 s. 9.(b) and S.L. 2013-413 s. 59.1 as amended by S.L. 2013-410 s. 47.6, or if proposed by the applicant, shall be described.
- (6) Special engineering features. A description of any special engineering features specific to the landfill that the applicant is proposing shall be provided.
- (7) Traffic study. A traffic study and NC Department of Transportation certification shall be prepared as required by G.S. 130A-295.5 and in accordance with the effective date and applicability requirements in S.L. 2007-550 s. 8.(b).
- (8) Study of Environmental Impacts. A study of environmental impacts shall be conducted as required by G.S. 130A-295.6(a) in accordance with the effective dates and applicability requirements in S.L. 2007-550 s. 9.(b) and S.L. 2013-413 s. 59.1 as amended by S.L. 2013-410 s. 47.6.

*History Note:* Authority G.S. 130A-294;  
Eff. January 1, 2007;  
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