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

(a) Purpose. As required under Rule .0535 of this Section, a permit applicant shall prepare a facility plan which meets the requirements of this Rule.

(b) Scope.

(1) The facility plan must define the comprehensive development of the property proposed for a permit or described in the permit of an existing facility. The plan must include a set of drawings and a report which present the long-term, general design concepts related to construction, operation, and closure of the C&DLF unit(s). The scope of the plan must span the active life of the unit(s). Additional solid waste management activities located at the C&DLF facility must be identified in the plan and must meet the requirements of this Subchapter. The facility plan must 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 must 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 must be consistent with the Division's approval set forth 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 must be used consistently throughout a permit application.

(1) A "phase" is an area constructed that provides no more than approximately five years of operating capacity.

(2) A "cell" is a subdivision of a phase, which describes modular or partial construction.

(3) A "subcell" is 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 must include the following drawings:

(1) Site Development. The drawings which plot site development must be prepared on topographic maps representative of existing site conditions; the maps must locate or delineate the following:

(A) Delineate the areal limits of all landfill units, and incorporate the buffer requirements set forth in Item (1) of Rule .0540 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, which do not exceed approximately five years of operating capacity;

(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 of this Section.

(2) Landfill Operation. The following information related to the long-term operation of the C&DLF unit must 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 an individual licensed to practice land surveying in the State of North Carolina.

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

(1) Waste stream. A discussion of the characteristics of the wastes received at the facility and facility specific management plans must 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 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 must be performed.

(A) The data and assumptions used in the analysis must be included with the facility drawings and disposal rates specified in the facility plan and representative of operational requirements and conditions.

(B) The conclusions must 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; and 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) Special engineering features.

(A) Leachate management systems, 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 must be described. Normal operating conditions must be defined. A contingency plan must be prepared for storm surges or other considerations exceeding design parameters for the storage or treatment facilities.

(B) Containment and environmental control systems. A general description of the systems designed for proper landfill operation, system components, and corresponding functions must be provided.

(C) Base liner systems, if proposed by the applicant must be described.

(D) Other device, components, and structures, if proposed by the applicant, must be described.

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