

.1406 OPERATIONAL REQUIREMENTS FOR SOLID WASTE COMPOST FACILITIES

Any person who maintains or operates a solid waste compost facility shall maintain and operate the site to conform with the following practices:

- (1) Plan and Permit Requirements:
 - (A) Construction plans and conditions of permit shall be followed; and
 - (B) A copy of the permit, plans, and operational reports shall be maintained on site at all times.
- (2) Adequate erosion control measures shall be practiced to prevent on-site erosion and to control the movement of soil or contaminants from the site.
- (3) Surface water shall be diverted from the operational, compost curing, and storage areas.
- (4) Leachate shall be contained on site or treated to meet the standards of the off-site disposal method.
- (5) Access and Security Requirements:
 - (A) Large sites shall be secured by means of gates, chains, berms, fences, or other security measures demonstrated to provide equivalent protection approved by the Division, to prevent unauthorized entry.
 - (B) An operator shall be on duty at the site at all times while the facility is open for public use to ensure compliance with operational requirements and access to such facilities shall be controlled.
 - (C) The access road to the site shall be of all-weather construction and maintained in good condition.
- (6) A site shall only accept those solid wastes that it is permitted to receive.
- (7) Safety Requirements:
 - (A) Open burning of solid waste is prohibited.
 - (B) Equipment shall be provided to control accidental fires and arrangements made with the local fire protection agency to immediately provide fire-fighting services when needed.
 - (C) Personnel training shall be provided to insure that all employees are trained in site specific safety, remedial, and corrective action procedures.
- (8) Sign Requirements:
 - (A) Signs providing information on waste that can be received, dumping procedures, the hours during which the site is open for public use, the permit number and other pertinent information shall be posted at the site entrance.
 - (B) Traffic signs/markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.
 - (C) Signs shall be posted stating that no hazardous waste, asbestos containing waste, or medical waste can be received at the site.
- (9) Monitoring Requirements:
 - (A) Specified monitoring and reporting requirements shall be met.
 - (B) The temperature of all compost produced shall be monitored sufficiently to ensure that the pathogen reduction criteria is met.
- (10) Compost process at Type 1 facilities shall be maintained at or above 55 degrees Celsius (131 degrees F) 3 days and aerated to maintain elevated temperatures.
- (11) Types 2, 3 and 4 facilities shall maintain the compost process at a temperature above 40 degrees Celsius (104 degrees F) for 14 days or longer and the average

temperature for that time shall be higher than 45 degrees Celsius (113 degrees F) or, Types 2, 3 and 4 facilities shall meet the vector attraction reduction requirements in 40 CFR 503.33(b)(4) or (7). Requirements of 40 CFR 503.33(b)(4) and (7) are hereby incorporated by reference, including any subsequent amendments or additions.

- (12) The composting process shall qualify as a process to further reduce pathogens for all Type 3 and Type 4 facilities. The following are acceptable methods:
 - (A) The windrow composting method, in which the following requirements apply: Aerobic conditions shall be maintained during the compost process. A temperature of 131 degrees F (55 degrees Celsius) or greater shall be maintained in the windrow for at least 15 days. During the high temperature period, the windrow shall be turned at least five times.
 - (B) The static aerated pile composting method, in which the following requirements apply: Aerobic conditions shall be maintained during the compost process. The temperature of the compost pile shall be maintained at 131 degrees F (55 degrees Celsius) or greater for at least three days.
 - (C) The within-vessel composting method, in which the temperature in the compost piles shall be maintained at a minimal temperature of 131 degrees F (55 degrees Celsius) for at least three days.
- (13) Nitrogen bearing wastes shall be incorporated as necessary to minimize odor and the migration of nutrients.
- (14) Miscellaneous Requirements:
 - (A) The finished compost shall meet the classification and distribution requirements outlined in Rule .1407 of this Section.
 - (B) The quality of the final product shall determine the allowable uses as outlined in Rule .1407 of this Section.
 - (C) The final product shall be approved by the Solid Waste Section as outlined in Rule .1407 Paragraph (e) of this Section.
 - (i) Non-compostable solid waste and unacceptable compost shall be disposed in a solid waste management facility permitted to receive the particular type of waste under 15A NCAC 13B.
 - (ii) The amount of compost stored at the facility shall not exceed the designed storage capacity.

*History Note: Authority G.S. 130A-294; 130A-309.03; 130A-309.11; 130A-309.29
Eff. December 1, 1991; RRC objection Eff. April 18, 1996 due to lack of statutory
authority; Amended Eff. June 1, 1996.*