

10A NCAC 15 .1207 ENVIRONMENTAL INFORMATION

A license application for land disposal of waste shall include site-specific environmental information (or reconnaissance level information when appropriate) which addresses and quantifies to the extent practicable, but is not limited to, the following:

- (1) statement of need and a description of the proposed activities identifying the location of the proposed site, the character of the proposed activities, and any plans for use of the facility for purposes other than handling and disposal of waste;
- (2) area and site characteristics including:
 - (a) historical and cultural landmarks, state and national parks, wilderness and wilderness study areas, archaeology, and demography;
 - (b) all buildings to a three mile radius;
 - (c) existing and projected populations and land use in the general area to a ten mile radius;
 - (d) nearby drinking water supply watersheds, groundwater recharge areas, flood plains, wetland areas and other natural resources such as endangered species habitats, proximity to parks, forests, wilderness areas and historical sites, and air quality; and
 - (e) proximity to other low-level radioactive waste or hazardous waste facilities;
- (3) any irreversible or irretrievable commitments of natural resources which would be involved should the area be developed as a disposal site;
- (4) to the extent performed by the applicant, site selection process, including considerations of alternative sites and the interrelationships between location of waste generators, transportation costs and means, site characteristics, and compatibility with current land uses;
- (5) to the extent performed or selected by the applicant, project alternatives, including a discussion of the alternatives considered by the applicant for handling and disposal of waste;
- (6) radiological and nonradiological impacts of the proposed action, including:
 - (a) surface and groundwater impacts;
 - (b) socioeconomic impacts;
 - (c) short- and long-term impacts on public health and safety;
 - (d) impacts resulting from irreversible or irretrievable commitments of resources; and
 - (e) aesthetic factors such as the visibility, appearance and noise level of the facility;
- (7) transportation routes, route safety, method of transportation, and environmental effects of postulated operational and transportation accidents to include:
 - (a) identification of accident modes with complete failure modes and effects analysis;
 - (b) all credible accidents and projected off-site impacts, including those occurring in transportation of the waste to or from the facility; and
 - (c) mitigation of accidents and protection of the public;
- (8) a list of all governmental permits, licenses, approvals, and other entitlements obtained or which must be obtained in connection with the proposed action along with the current status of applications for and issuance of such permits, licenses, approvals, and other entitlements;
- (9) a description of the maximum projected quantity and concentration of each radionuclide and toxic or hazardous constituent of the waste released annually to the air, to the water and to the soil;
- (10) a description of the maximum projected radiation doses to off-site populations; and
- (11) a description of the maximum projected off-site radionuclide concentrations in air, soil, water and food.

History Note: Authority G.S. 104E-7; 104E-9(3); 104E-10(b); 104E-15; 104E-25; 104E-26; Eff. December 1, 1987; Transferred and Recodified from 15A NCAC 11 .1207 Eff. February 1, 2015.