

10A NCAC 15 .1208 TECHNICAL AND ENVIRONMENTAL ANALYSES

The specific technical and environmental information shall also include the following analyses needed to demonstrate that the performance objectives of this Section will be met:

- (1) pathways analyzed in demonstrating protection of the general population from releases of radioactivity shall include air, soil, groundwater, surface water, plant uptake, and exhumation by burrowing animals. The analyses shall:
 - (a) clearly identify and differentiate between the roles performed by the natural disposal site characteristics and design features in isolating and segregating the wastes; and
 - (b) clearly demonstrate that there is reasonable assurance that the potential exposures to humans from the release of radioactivity will not exceed the limits set forth in Rule .1223 of this Section.
- (2) Analyses of the protection of individuals from inadvertent intrusion shall include demonstration that there is reasonable assurance that the waste classification and segregation requirements will be met and that adequate barriers to inadvertent intrusion will be provided.
- (3) Analyses of the protection of individuals during operations shall include assessments of expected exposures due to routine operations and likely accidents during handling, storage, and disposal of waste. The analyses shall provide reasonable assurance that exposures will be controlled to meet the requirements of Section .1600 of this Chapter.
- (4) Analyses of the long-term stability of the disposal site and the need for ongoing active maintenance after closure shall be based upon analyses of active natural processes such as erosion, mass wasting, slope failure, settlement of wastes and backfill, infiltration through covers over disposal units and adjacent soils, and surface drainage of the disposal site. The analyses shall provide reasonable assurance that there will not be a need for ongoing active maintenance of the disposal site following closure.

*History Note: Authority G.S. 104E-7; 104E-9(3); 104E-10(b); 104E-25; 104E-26;
Eff. December 1, 1987;
Amended Eff. January 1, 1994;
Transferred and Recodified from 15A NCAC 11 .1208 Eff. February 1, 2015.*