

10A NCAC 15 .1612 COMPLIANCE WITH DOSE LIMITS FOR MEMBERS OF THE PUBLIC

(a) The licensee or registrant shall make or cause to be made, as appropriate, surveys of radiation levels in unrestricted and controlled areas and measurements and surveys of radioactive materials in effluents released to unrestricted and controlled areas to demonstrate compliance with the dose limits for individual members of the public in Rule .1611 of this Section.

(b) A licensee or registrant shall show compliance with the annual dose limit in Rule .1611 of this Section by:

- (1) demonstrating by measurement or calculation that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed or registered operation does not exceed the annual dose limit; or
- (2) demonstrating that:
 - (A) The annual average concentrations of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area do not exceed the values specified in Table 2 of Appendix B to 10 CFR §§ 20.1001 - 20.2401; and
 - (B) If an individual were continually present in an unrestricted area, the dose from external sources of radiation would not exceed 0.002 rem (0.02 mSv) in an hour and 0.05 rem (0.5 mSv) in a year.

(c) Upon approval from the agency, the licensee may adjust the effluent concentration values in Appendix B to 10 CFR §§ 20.1001 - 20.2401, Table 2, for members of the public, to take into account the actual physical and chemical characteristics of the effluents (e.g., aerosol size distribution, solubility, density, radioactive decay equilibrium, chemical form).

*History Note: Authority G.S. 104E-7(a)(2);
Eff. January 1, 1994;
Transferred and Recodified from 15A NCAC 11 .1612 Eff. February 1, 2015.*