

Draft Report

Carbon Monoxide Alarms & Radon Gas Testing

FY2023-24 Statewide Survey

July 31, 2024

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NORTH CAROLINA
State Board of Education
Department of Public Instruction

Statewide Survey

Carbon Monoxide & Radon Gas

- Legislative Provision (SL 2023-134, Sec. 7.78)

STUDY STATUS AND COST OF CARBON MONOXIDE ALARMS AND RADON TESTING IN SCHOOLS

SECTION 7.78. The State Board of Education shall survey all identified public schools to determine the number of existing school buildings that are currently not equipped with carbon monoxide alarm and detection systems but would have to install those systems if required to be in compliance with the requirements for new buildings in Section 915 of the North Carolina State Building Code, Fire Prevention Code (non-equipped buildings). The State Board of Education shall also survey all identified public schools to determine the need and implementation of radon gas testing. The State Board of Education shall report to the Joint Legislative Education Oversight Committee the following information no later than December 15, 2023:

- (1) The number of non-equipped buildings statewide, and by identified public school.
- (2) The estimated cost statewide, and by the identified public school, to permit, install, and inspect all non-equipped buildings with carbon monoxide alarm and detection systems and radon gas testing.

For purposes of this section, "identified public schools" shall refer to (i) schools in a public school unit, as defined in G.S. 115C-5(7a), except charter schools, (ii) the North Carolina School of Science and Mathematics, (iii) the University of North Carolina School of the Arts, (iv) schools operated by the Department of Health and Human Services, and (v) schools operated by the Division of Juvenile Justice of the Department of Public Safety.



Statewide Survey

Carbon Monoxide & Radon Gas

- Identified Public Schools
 - Certain PSU Schools
 - State Agency Schools
 - Laboratory Schools
 - Regional Schools
 - Statewide Schools

- Survey Totals
 - 2,543 School Campuses
 - 7,357 Individual Buildings
 - 5,707 Classroom Buildings



Statewide Survey

Carbon Monoxide & Radon Gas

- Survey Scope & Methodology
 - Series of 6 Questions per Campus Building
 - Determine Requirements of Existing School Buildings
 - Calculate Number of Buildings for Cost Projections
- Survey Response Rate *(as of July 15, 2024)*
 - PSU Schools 82.6%
 - Agency/Lab/Regional/Statewide Schools 47.0%
 - Aggregate Response Rate 78.8%

...data collection continues



Statewide Survey

Carbon Monoxide & Radon Gas

- **Carbon Monoxide Detection Systems**
 - Classrooms with Fuel-Burning Appliances
 - Buildings with Fuel-Burning Mechanical Equipment
 - Appendix 1 of Draft Report (NC Code Requirements)
 - 3,790 Classroom Buildings (cost projections)
- **Radon Gas Testing**
 - All Campus Buildings
 - Appendix 2 of Draft Report (NC Code Requirements)
 - 7,552 Classroom Buildings (cost projections)
- **Cost Projections**
 - Carbon Monoxide Systems ~ \$40 million Statewide
 - Radon Gas Testing ~ \$45 million Statewide



Questions...?





North Carolina Department of

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