



APPENDIX C CODE CHANGE PROPOSAL NORTH CAROLINA BUILDING CODE COUNCIL

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Petition for Rule Making

Item Number _____

Granted by BCC _____
Denied by BCC _____

Adopted by BCC _____
Disapproved by BCC _____

Approved by RRC _____
Objection by RRC _____

PROPONENT: Phillip Ray Gibson PHONE: (828) 712-0972

REPRESENTING: NC Radiation Protection Section, NC Radon Program, NC DHHS

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CITY: Raleigh

STATE: NC

ZIP: 27612

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FAX: (_____) _____ - _____

North Carolina State Building Code, Volume 2018 NC Building Code: Mechanical Code Section 512

CHECK ONE: [] Revise section to read as follows: [x] Delete section and substitute the following:
[] Add new section to read as follows: [] Delete section without substitution:

UNDERLINE MATERIAL TO BE ADDED

Section 512 – See attached

Will this proposal change the cost of construction? Decrease [] Increase [] No [x]

Will this proposal increase to the cost of a dwelling by \$80 or more? Yes [] No [x]

Will this proposal affect the Local or State funds? Local [] State [] No [x]

Will this proposal cause a substantial economic impact (≥\$1,000,000)? Yes [] No [x]

- Non-Substantial – Provide an economic analysis including benefit/cost estimates.
- Substantial – The economic analysis must also include 2-alternatives, time value of money and risk analysis.
- Pursuant to §143-138(a1)(2) a cost-benefit analysis is required for all proposed amendments to the NC Energy Conservation Code. The Building Code Council shall also require same for the NC Residential Code, Chapter 11.

REASON: Radon is the leading environmental cause of lung cancer. Builders throughout North Carolina are voluntarily installing radon mitigation systems in both new construction and existing single family and multi-family dwellings. North Carolina codes do not provide guidance on the design or installation of radon mitigation systems or their activation. Evidence shows that some systems are improperly installed exposing homeowners to increased levels of radon than prior to their installation. Additionally, affordable housing organizations in North Carolina are experiencing increased costs due to state rules not existing. Local governments are not reviewing the installation of radon mitigation systems. At least one has started requiring an engineering design, stamp and a third-party verification of the installed radon mitigation system due to no standards in the NC Codes. This results in an additional cost.

BCC CODE CHANGES. Signature: _____

Date: _____

FORM 11/26/19

SECTION 512

SOIL GAS CONTROL SYSTEMS

512.1 General

The construction of soil gas control systems shall be in accordance with this section.

512.2 New construction

Where a soil gas control system is provided for new construction, the system shall conform to the requirements of ANSI-AARST CC1000.

Exception: Soil gas control systems in new one and two-family home construction shall comply with ANSI-AARST CCAH

512.3 Existing apartment buildings.

Where a soil gas control system is provided in an existing building, the system shall conform to the requirement of ANSI-AARST RMS-MF

CHAPTER 15

REFERENCED STANDARDS

AARST

AARST Consortium on National Radon Standards

527 N. Justice Street

Hendersonville NC 28739

USA

ANSI/AARST CC1000 Soil Gas Control Systems in New Construction of Buildings

ANSI-AARST CCAH Reducing Radon in New Construction (Homes)

ANSI/AARST RMS-MF Radon Mitigation Standards for Multifamily Buildings