



APPENDIX C CODE CHANGE PROPOSAL NORTH CAROLINA BUILDING CODE COUNCIL

325 North Salisbury Street, Room 5_44
Raleigh, North Carolina 27603
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Granted by BCC _____ Petition for Rule Making Item Number _____
Denied by BCC _____ Adopted by BCC _____ Approved by RRC _____
Disapproved by BCC _____ 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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North Carolina State Building Code, Volume 2018 NC Building Code: Residential Code

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

Please type. Continue proposal or reason on plain paper attached to this form. See reverse side for instructions.

SECTION R328 SOIL GAS CONTROL SYSTEMS

Where a soil gas control system is installed, the system shall comply with ANSI-AARST CCAH.

Exception: Where a soil gas control system is installed in an existing residential structure, the system shall comply with ANSI-AARST SGM-SF.

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

CHAPTER 44

REFERENCED STANDARDS

AARST

AARST Consortium on National Radon Standards

527 N. Justice Street

Hendersonville NC 28739

USA

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

ANSI/AARST SGM-SF Soil Gas Mitigation Standards for Existing Homes