

Update on Vapor Intrusion Standards and Credentialing Program



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on Soil, Water, Energy and Air

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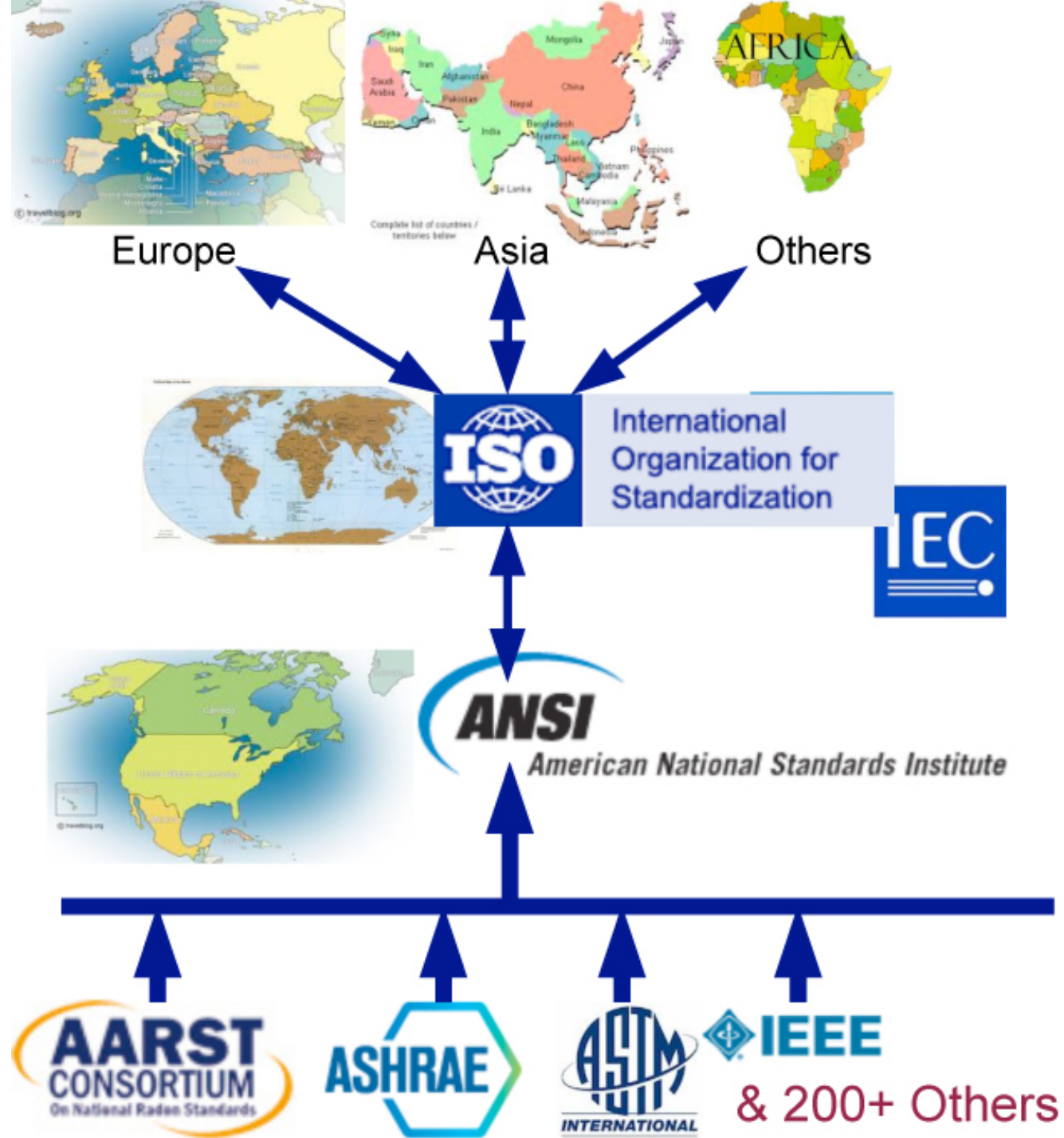
Consortium Overview

- ANSI-accredited standards development organization
- Consists of stakeholder groups with direct and material interests in radon and vapor intrusion
- ANSI due process requirements include:
 - Openness
 - Lack of dominance
 - Balance
 - Consideration of views
 - Consensus vote
 - Appeals
- A standard shall not be designated as an American National Standard if it:
 - is contrary to the public interest
 - contains unfair provisions
 - is unsuitable for national use

Consortium Overview

- Responsible for development and ongoing maintenance of 12 standards establishing minimum requirements for radon and soil gas measurement and mitigation – 4 VI mitigation standards
- Consortium continuous maintenance of standards:
 - standing committee member term – 3 years
 - standard publication – 3 years
 - standard revisions, if applicable – revision date notation
 - effective date after publication of revision – 6 months
 - technical bulletin detailing updates included with each standard publication or revision
- ANSI PINS (Project Initiation Notice System) submitted for OM+M and soil gas measurement (indoor testing)

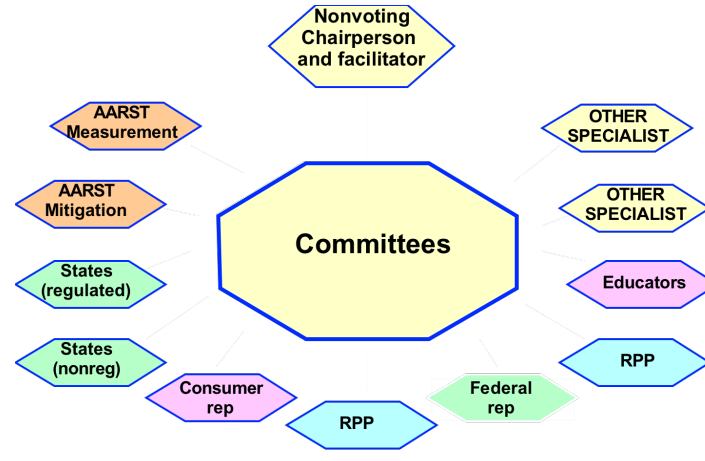
Organizational Relationships



Consortium Structure

Due process audit trail

Executive Stakeholder Committee
(Policy, Projects and due process oversight)



Publish
← **SMC**
(AARST Standards Management Council)

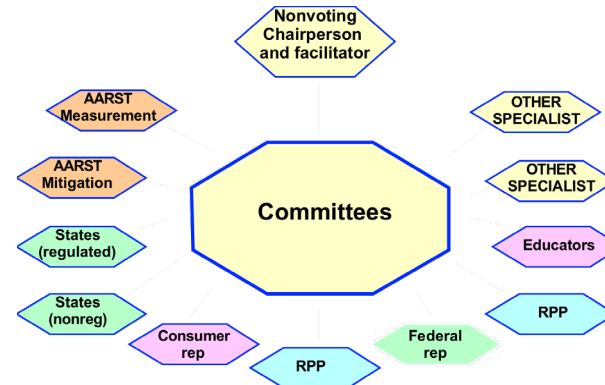
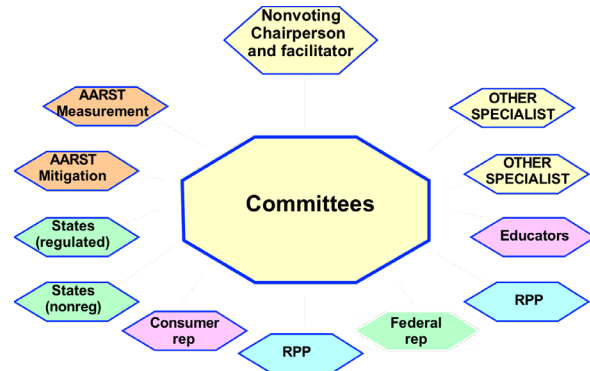


Accredits bylaws and audits for bylaw compliance



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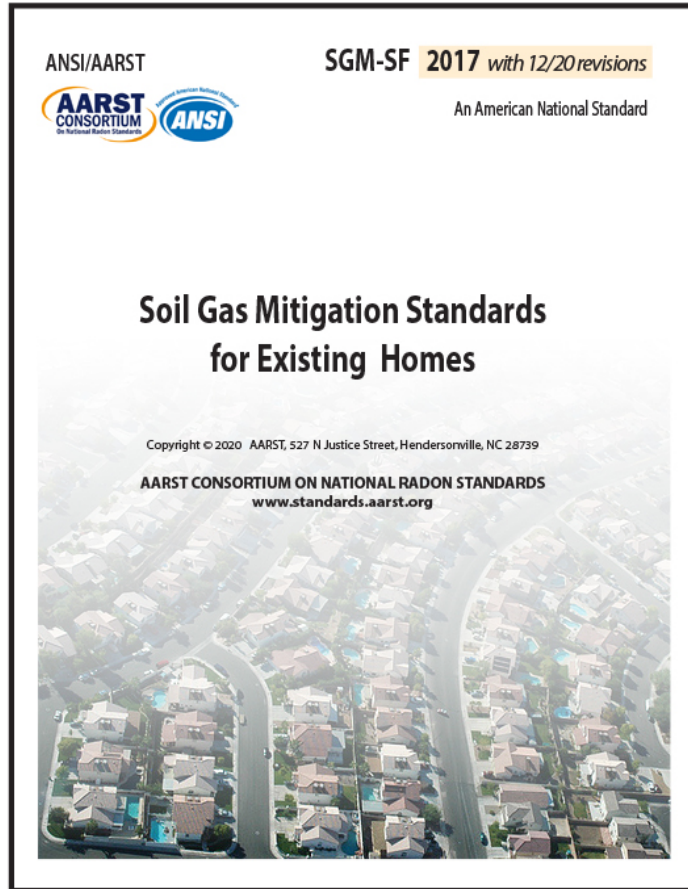
ANSI/AARST Consensus Standards



Soil Gas Mitigation Standards

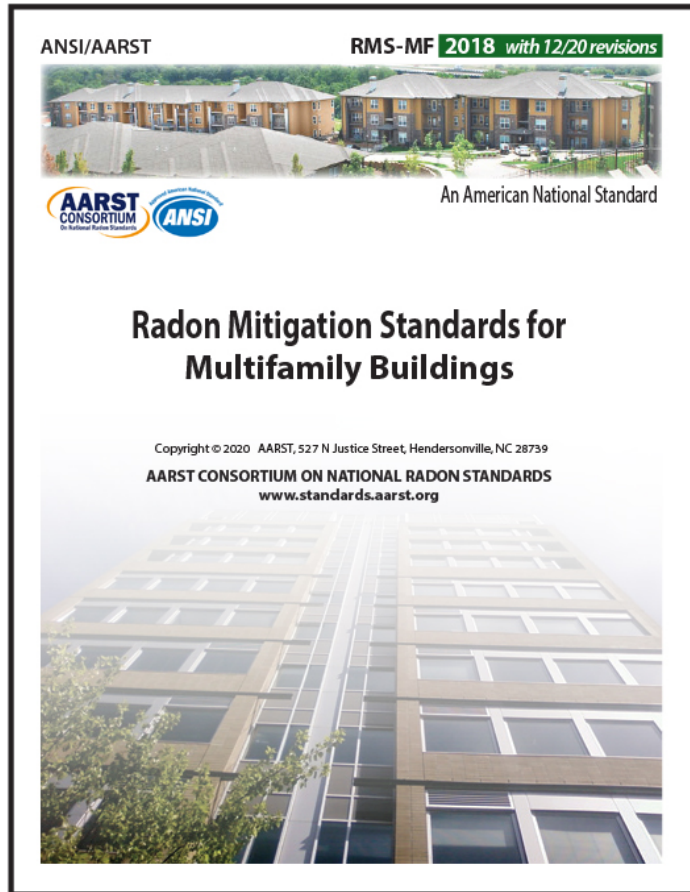
- Developed and maintained by AARST Consortium utilizing ANSI consensus standards process
- Fill gap between site characterization and mitigation implementation – provide consistency for stakeholders
- Provide minimum requirements for site assessment, pilot testing, system design and installation, OM+M and long-term stewardship
- 4 mitigation standards currently maintained by AARST Consortium:
 - ANSI/AARST SGM-SF 2017 rev 12/20
 - ANSI/AARST RMS-MF 2018 rev 12/20
 - ANSI/AARST RMS-LB 2018 rev 12/20
 - ANSI/AARST CC-1000 2018

Soil Gas Mitigation – Single Family Buildings



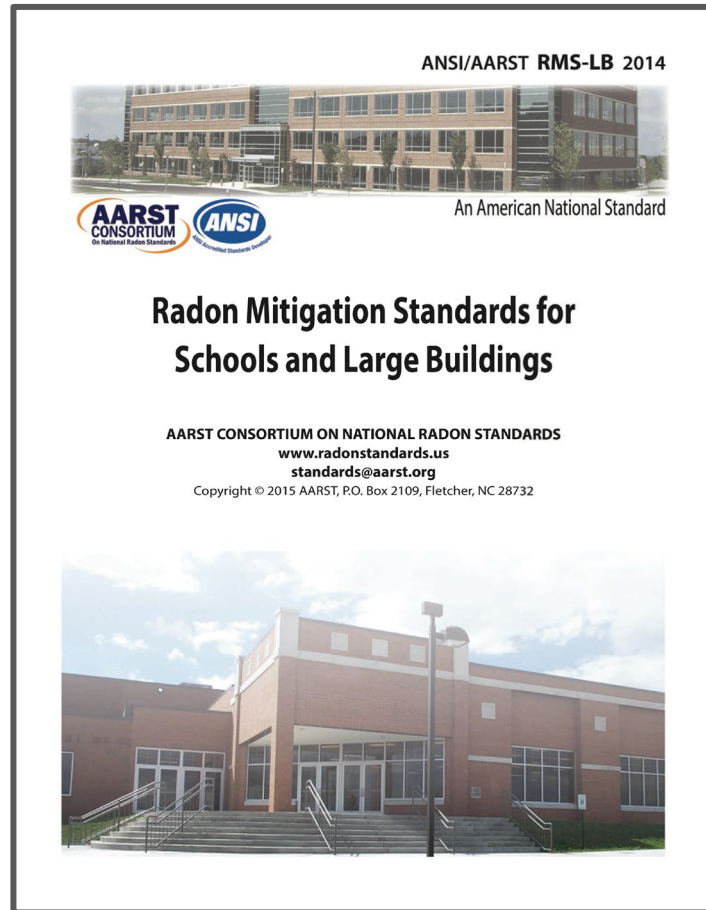
- ANSI/AARST SGM-SF 2017 rev 12/20
- Key items:
 - Professional requirements
 - Design and installation requirements
 - Source / mitigation method
 - Occupant notifications
 - Post-mitigation building clearance
 - Ongoing operation, maintenance, and monitoring (OM+M)
 - Quality Management Program requirements

Soil Gas Mitigation – Multifamily Buildings



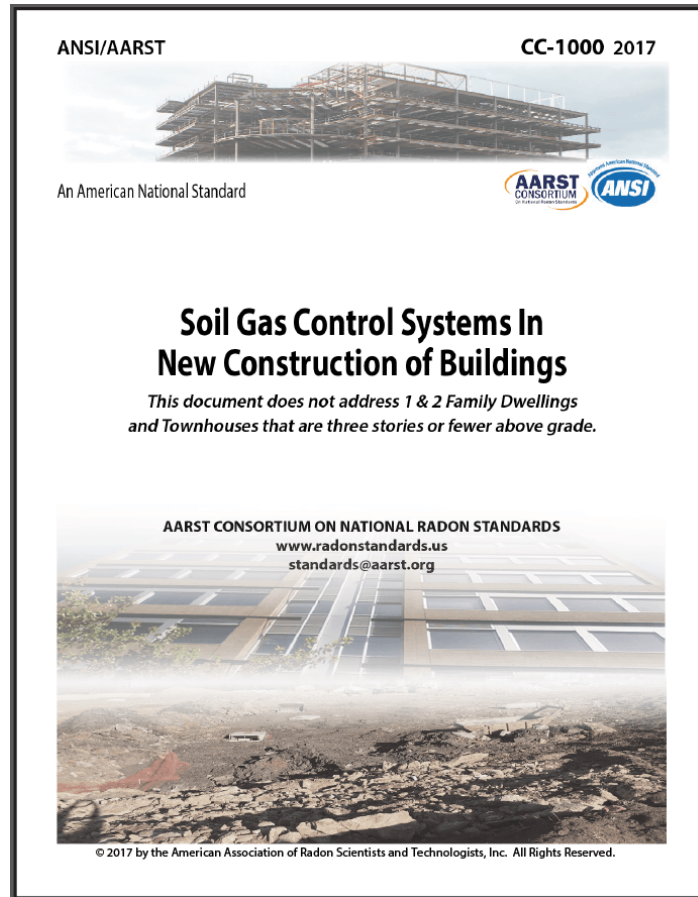
- ANSI/AARST RMS-MF 2018 rev 12/20
- Key items:
 - Professional requirements
 - Design and installation requirements
 - Source / mitigation method
 - Occupant notifications
 - Post-mitigation building clearance
 - Ongoing operation, maintenance, and monitoring (OM+M)
 - Quality Management Program requirements

Soil Gas Mitigation – Large Buildings



- ANSI/AARST RMS-LB 2018 rev 12/20
- Key items:
 - Professional requirements
 - Design and installation requirements
 - Source / mitigation method
 - Occupant notifications
 - Post-mitigation building clearance
 - Ongoing operation, maintenance, and monitoring (OM+M)
 - Quality Management Program requirements

Soil Gas Control – New Construction



- ANSI/AARST CC-1000 2018
- Key items:
 - Professional requirements
 - Soil gas control, building envelope
 - Performance testing
 - System activation
 - Post-activation building clearance
 - Ongoing operation, maintenance, and monitoring (OM+M)
 - Quality Management Program requirements

Consortium Website



National Consensus Standards for Every Building Type

standards.aarst.org

NRPP Soil Gas Credentialing Program



Soil Gas Credentialing Program

- Under development by National Radon Proficiency Program (NRPP) – ISO 17024 accreditation pending
- Builds upon radon proficiency program developed and maintained by AARST – mature credentialing organization with established oversight body comprised of stakeholder groups with direct and material interests in radon and vapor intrusion
- Establishes proficiency credentialing in following areas:
 - Soil gas measurement (indoor testing)
 - Soil gas mitigation
 - Soil gas control system design
 - Soil gas mitigation system inspection
- Suitable for adoption by regulatory programs



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