

Experiences from Housing Nova Scotia's Radon Testing and Mitigation Program

Workshop: Radon Exposure in Nova Scotia: Challenges and Solutions May 26, 2016



Radon Testing

- Over 8000 Tests
- DCS Public Housing & Affordable Housing – Conducted in heating seasons: 2007/8; 2008/9; 2009/10
- Rural Native Housing
 - Conducted in heating seasons: 2013/14, 2014/15
- After Initial Tests:
 - Follow Up Testing Radon Mitigation
 - Retesting Missing, Questionable results



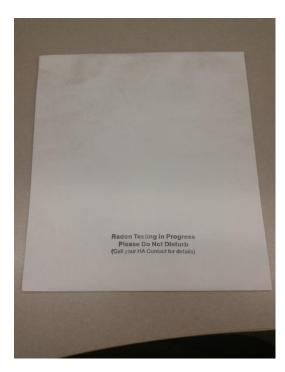


Radon Testing

Difficulties / Challenges with Installation and Collection

- Letter of Explanation from HA
- Tenants: Seniors and Families
- Challenges Some Stories
 - Dogs
 - Disappeared
 - Camera
 - Creates Gases





Radon Testing

Training – All Has

- Installation / collection Form <u>HNS Radon Detector Install Form</u>
- Install Cheat Sheet <u>Radon Install Protocol Sheet</u>
- E-Perm ON / OFF <u>E-Perm Radon Detector Schematic</u>
- HNS & Aqua Check Run through, Paperwork, When to Collect



Radon Mitigation Design

Types of Buildings:

- MURBS: 1,2,3 storeys
- Single family dwellings
- Tall Buildings









Radon Mitigation Design

 Sub Slab Depressurization & Suction: Slab, Finished / Unfinished Basement



PHOTO 119 - UNIT G3 - SUCTION POINT



Radon Mitigation Design

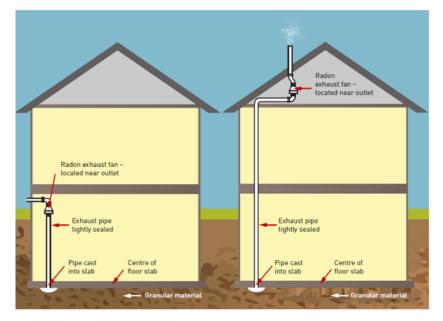
Crawl Space Sealing and Suction: Motel style MURB





Radon Mitigation Design

Attic Roof Vent & Side Wall Vent





Radon Mitigation Design

- Challenges
 - Exhaust vent: Side or Roof
 - Relative Costs Radon Mitigation RM Rel Costs
 - Pipe Route, Fan enclosure?
 - Crawl Space sealing swimming pool







PHOTO 119 - UNIT G3 - SUCTION POINT



Quality Assurance

- Testing after mitigation
- Retesting
- 200 Or less?
 - Test results can vary year by year



Prevention

- Cancer "after cigarette smoking, prolonged residential radon exposure is the second leading cause of lung cancer in the general population" (Rev Environ Health. 2001 Jul-Sep;16(3):151-67. A review of residential radon case-control epidemiologic studies performed in the United States)
- Anyone
- If suffering and treatment costs can be avoided ...

