







Bureau of Radiation Protection

PA DEP/BRP, Radon Division

Mid-Atlantic States Radiation Conference

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Bureau of Radiation Protection

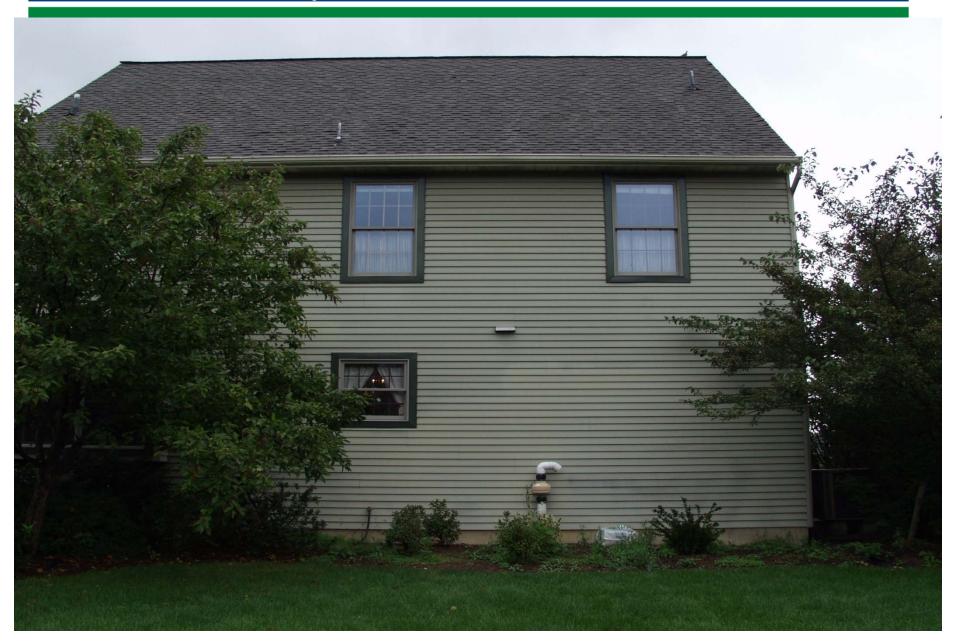
PA DEP/BRP, Radon Division

Exploratory Study of ASD Ground
Level Exhaust on Radon
Re-entrainment.

Re-entrainment

The unintended entry of radon gas from a ASD exhaust pipe back into one's home or structure.





PA Radon Mitigation Standards

14.2.8 To prevent re-entrainment of radon, the point of discharge from vents of ASD systems shall meet all of the following requirements: be above the eave of the roof...



Do we have to discharge to roof line all the time?

That is what the study is designed to answer, in part.

We don't think that roof line discharge is always necessary.



Reasons for Ground Level Discharge

- 1. Aesthetics
- 2. Safety for installer
 - 3. Cost
 - 4. Efficiency
- 5. Less condensation

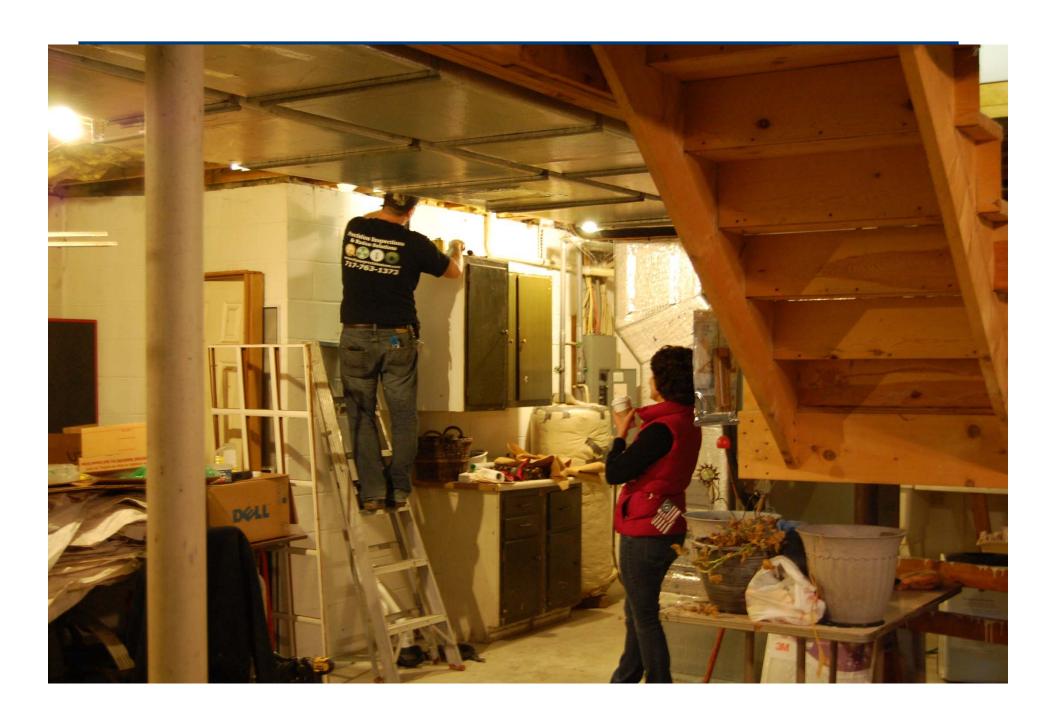


- Early Studies showed that re-entrainment could lead to increased indoor radon.
- Modeling studies showed that radon could accumulate on the face of the building under certain circumstances.
- PSU used tracer gas from a mock ASD exhaust point with eave and ground level exhaust. The GLE did contribute more to indoor radon than the eave.



- The Studies continued:
 - The studies did conclude that ground level
 exhaust may be acceptable when the
 concentrations are not too high and the
 exhaust point is ninety degrees pointed away
 from the house.

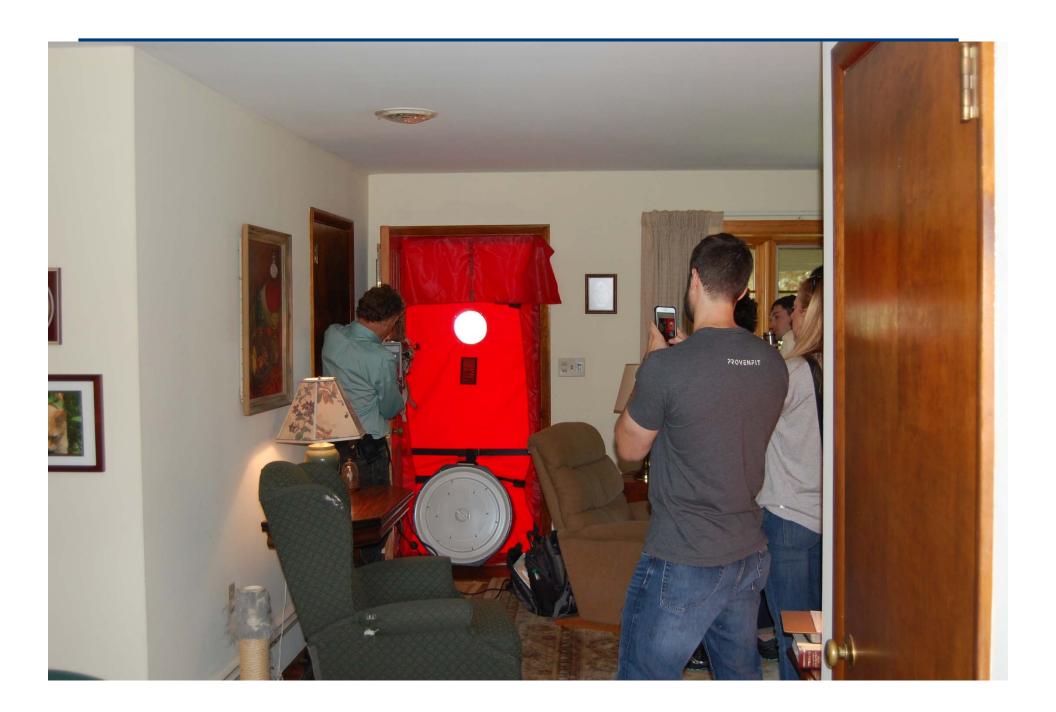




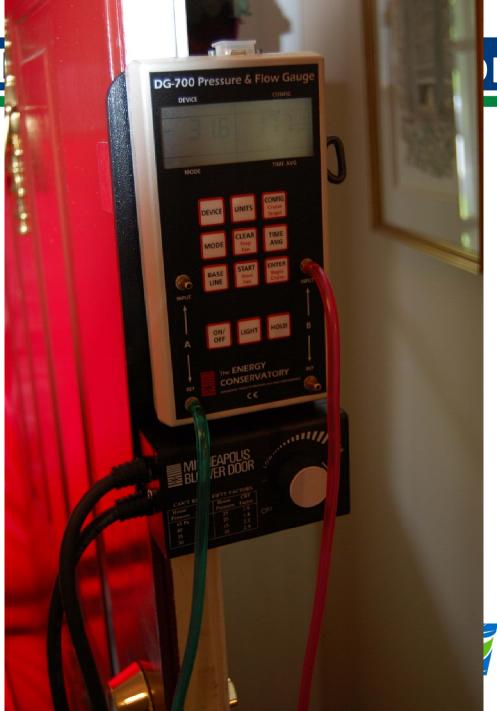






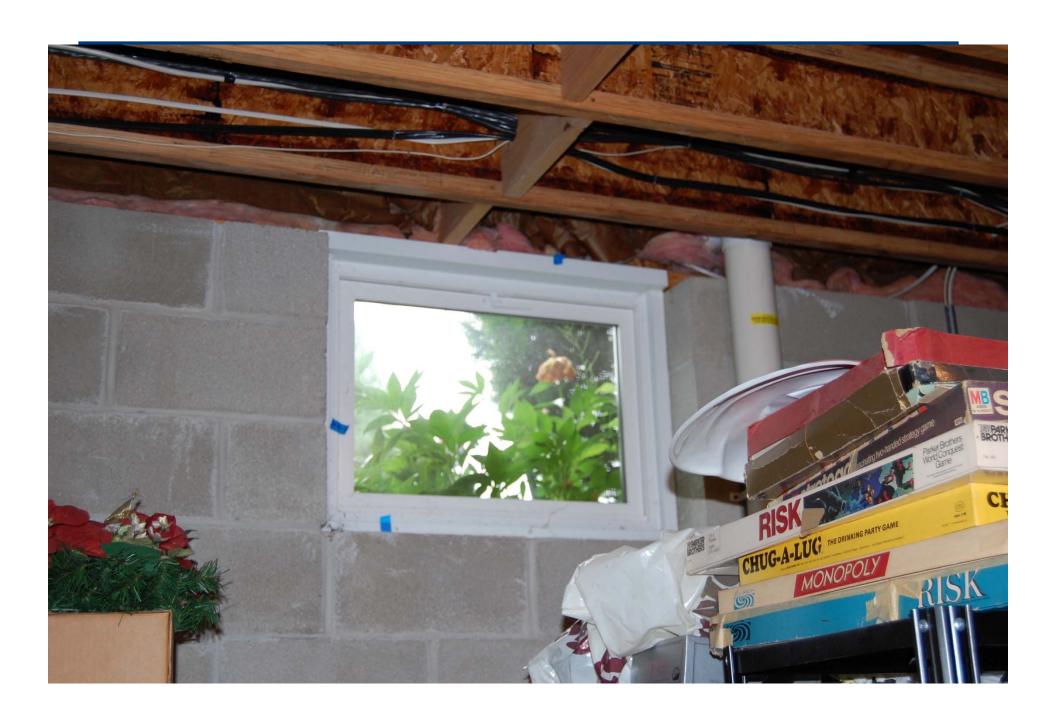












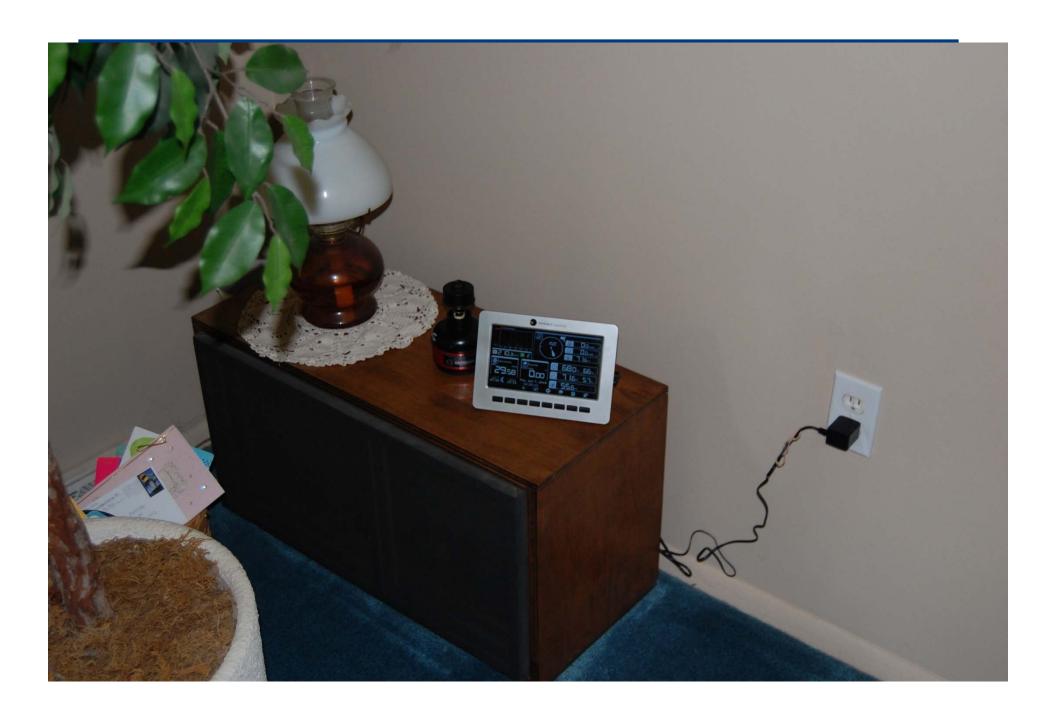


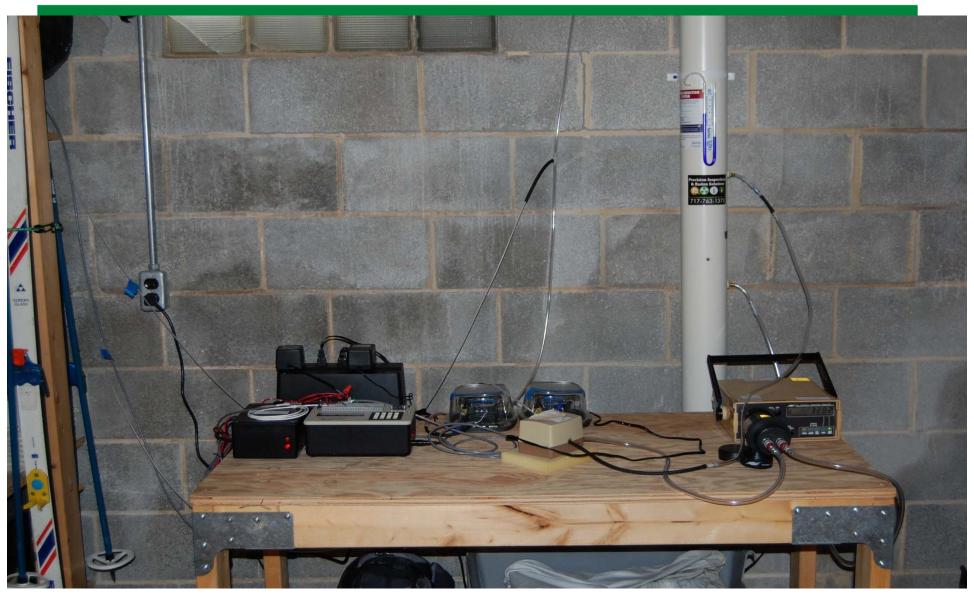






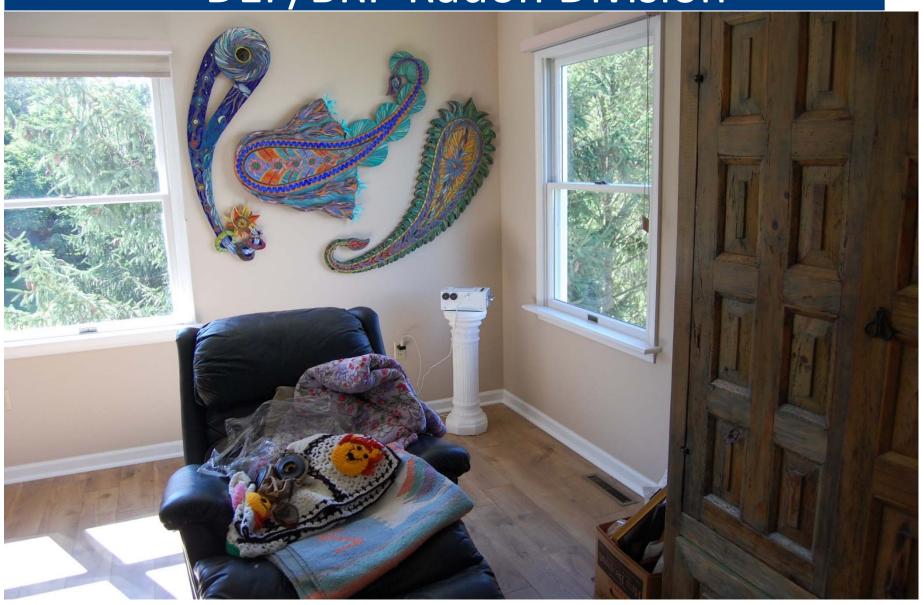
















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Questions?

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