



WPB Enterprises, Inc.
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 Bill Brodhead www.WPB-Radon.com

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Bill Brodhead
 President of WPB Enterprises, Inc.

Qualifications:

Bill has been installing residential and commercial sub-slab depressurization systems for 30 years. During that period Bill has been involved in numerous research projects, design projects and installation projects for both design and remediation of radon and VOC. Bill's radon company has installed over 9000 residential radon mitigation systems including several homes with the highest radon levels ever measured in Pennsylvania.

Bill has been the lead radon instructor at Rutgers University Eastern Regional Radon Training Center since 1994. Bill is a voting member of the AARST/ANSI CC1000 standard for radon reduction requirements for new construction of large buildings. Bill is a member of the AARST Certification Council.

Bill maintains his certification with AARST NRRP #100044 RMT.

WPB COMMERCIAL EXPERIENCE & RESEARCH WORK

Photos of WPB residential and Commercial work is available at WPB-Radon.com

- 11/89-pres. Bill is the primary instructor for Radon Technology for Mitigators 3 day course given five times a year and sponsored by the Eastern Regional Radon Training Center at Rutgers University.
- 2023 Designed radon mitigation for 9 story building in Wilkes-Barre, PA
- 2023 Designed radon mitigation system for Bucks County Community College in Newtown, PA.
- 2022 Designed radon mitigation for six homes in Puerto Rico for EPA project
- 2022 Designed radon mitigation system for commercial buildings in Guam.
- 2022 Designed radon mitigation for radon in concrete at a 6 story condo in Miami Beach, FI
- 2020 Designed radon mitigation system for 4 story apartment complex in Bloomsburg PA.
- 1984-2018 WPB Enterprises completed over 9000 radon mitigation systems including mitigating the highest residential radon level in the US at 6175 pCi/L., and 19 homes with levels above 1000 pCi/L in Center Valley PA.
- 2018 Designed ventilation system for 600 unit radon in concrete apartment complex in Miami FL

2018 Designed & Installed radon mitigation system for Assisted Living Facility, Mechanicsburg PA

2017 Designed & Installed radon mitigation system for four story Central Allentown School Building

2017 Designed & Installed radon mitigation system for 24,000 SF building at Fort Campbell KY

2017 Designed radon vent system for new 50,000 square foot four story building in PA

2016 Designed & Installed vapor intrusion mitigation for Harbor Freight/UPS/Laundromat building in Wyomissing PA

2016 Designed passive radon piping for new student center and residence hall for Penn State Media/Brandywine campus.

2015-6 Designed & installed a 10 fan vapor intrusion mitigation system for EPA project in Doylestown, PA

2015 Designed passive radon system for new firehouse in South River NJ

2014 Designed & Installed radon mitigation system for Neffs Bank

2014 Designed & installed 5 fan vapor intrusion mitigation system for commercial building in Baltimore MD.

2013-14 Hired by Montgomery County Housing Authority to design radon system for 5 story 85 unit multi-family building.

2013 Designed radon system for new school buildings for Shippensburg University, Millersville University and Allentown School District.

1997-2017 Provided mitigation crews to install radon mitigation systems for residential and commercial buildings for US Navy, Marines and Army at multiple bases in Okinawa Japan and Guam, as well as military bases in Alaska, Tennessee and Hawaii.

2012 Designed & installed radon mitigation systems for 29 buildings based on pressure field extension measurements for Lehigh University, Bethlehem, PA.

2012 Designed radon mitigation system based on pressure field extension measurements for 27,000 ft² office building for Shire Pharmaceuticals, Wayne, PA.

2011 Designed vapor intrusion mitigation system based on pressure field extension measurements for 250,000 ft² factory in St. Johns Michigan.

2011 Designed vapor intrusion mitigation system based on pressure field extension measurements and installed vapor intrusion ASD mitigation system for two commercial buildings in Pennsauken NJ.

2010 Hired by CH2M-Hill to design soil vapor intrusion mitigation systems for 6 buildings at the Marine Camp Lejeune, North Carolina

2010 Designed vapor intrusion mitigation system based on pressure field extension measurements and was the general contractor for 18,000 ft² factory in NJ

2010 Designed and installed vapor intrusion mitigation system for 18,000 ft² shopping center in Newark NJ for Whitman Engineers

- 2010 Hired to design vapor intrusion mitigation system for 25,000 ft² shopping center in West Orange, NJ
- 2007-10 Hired by CH2M-Hill to design soil vapor intrusion mitigation systems for 14 buildings in Grants, New Mexico as part of super fund clean-up site
- 2009 Hired to design a vapor intrusion mitigation system for a 10,000 ft² commercial building in Livingston, NJ that was used as a day care center and architectural office for Whitman Engineering.
- 2009 Designed and Installed vapor intrusion mitigation for 4500 ft² NJ apartment building for WRS Infrastructure & Environment, Inc
- 2009 Hired to design vapor intrusion mitigation system for 250,000 ft² American Dryer manufacturer in Rhode Island
- 2009 Hired by Penn State University to design and install radon mitigation system for three separate dormitories
- 2008 Taught 8 hour continuing education class for Ohio Radon Professional Organization on designing and installing soil gas mitigation systems in commercial buildings.
- 2008 Hired by Earth Tech a division of Tyco to design vapor intrusion system for two residential buildings in Punxsutawney, PA
- 2008 Hired by Dalhousie University in Halifax, Nova Scotia to teach 3 day class for Nova Scotia School Districts to implement a radon mitigation plan for their schools.
- 2007 Provided diagnostic report to make concrete flux measurements to determine elevated radon levels in high rise condominium.
- 2007 Hired by Goss International to design soil vapor intrusion mitigation system for 235,000 square foot manufacturing plant in Dover NH.
- 2007 Developed and taught 8 hour continuing education class at International Radon Symposium on designing and installing soil gas mitigation systems in commercial buildings.
- 2007 Hired by Northwestern School District to design radon mitigation systems for two elementary schools and design passive radon piping for two large additions.
- 2006 Hired by Earth Tech a division of Tyco to install of 11 vapor intrusion mitigation systems for TCE/PCE in residential homes in Akron, PA
- 2005-6 Hired by CH2M-Hill to supervise an additional installation of 46 radon mitigation systems at Kadena Air Force Base, Okinawa, Japan
- 2005 Designed and installed radon mitigation system for St. Lukes Hospital, Allentown, PA
- 2005 Designed and installed a radon mitigation system for a half million square foot warehouse outside of Allentown, PA
- 2005 Presented paper titled "The Effect of Ventilation Changes on Radon Decay Product Measurements" and an update on the "New Jersey Radon Resistant School New Construction Code" at the 15th Annual International Radon Symposium in San Diego, California

- 2004 Presented paper titled "Draining Water past Radon Fan Motors installed Outside" and "Proposed New Jersey Radon Resistant School New Construction Code" at the 14th Annual International Radon Symposium in Newport, Rhode Island
- 2003 Hired by CH2M-Hill to evaluate the existing 600 radon mitigation systems at Kadena Air Force Base, Okinawa, Japan and to provide guidance on radon testing procedures and crawl space depressurization induced moisture problems.
- 2003 Presented paper titled "Using ASD to mitigate CO₂, Methane and Benzene" at the 13th Annual International Radon Symposium in Nashville, Tennessee
- 2003 Hired by NJ DEP to produce the teaching materials and teach a one-day class instructing mitigators how to diagnose and design radon systems for NJ schools with elevated radon.
- 2002 Presented paper titled "Designing Commercial Sub-Slab Depressurization Systems" and a paper titled "Performance of Low Wattage Fans & Small Pipe Sizes with ASD Systems" at the 12th Annual International Radon Symposium in Reno, Nevada
- 2002 Hired by University of Minneapolis as a sub-contract to the EPA to re-write "Active Soil Depressurization" section of the radon mitigation-training manual used by the EPA sponsored training centers.
- 2000-2003 Hired by United States Office of Surface Mining to mitigate six homes that had excessive amounts of CO₂ entering the basement.
- 1999 Installed radon system for Cold Spring Elementary School, Central Bucks School District
- 1999 Hired by Montgomery County to install a mitigation system at the underground Montgomery County Emergency Operations Center (911 Center)
- 1998 Installed radon system for Lehigh Elementary School, Northampton Area School District
- 1997 Co-authored a paper for the International Radon Symposium in Cincinnati, OH on "Airflow and Pressure Characteristics of Common Radon Fans".
- 1996 Authored and presented a paper at the International Radon Symposium in Orlando Florida on "Pressure Drop of Airflow through commonly used Radon Mitigation Piping".