



# OHIO DEPARTMENT OF HEALTH

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**To:** Ohio Licensed Radon Testers, Radon Mitigation Specialists, and Radon Contractors  
**From:** The Ohio Department of Health, Radon Licensing Program *ASJ 9/10/2010*  
**Subject:** Quality Assurance and Quality Control Measurements – Duplicates, Blanks, and Spikes  
**Date:** June 11, 2008 – Updated September 10, 2010

The Ohio Department of Health requires radon testers and radon mitigation specialists to follow their approved quality assurance (QA) plans in rule 3701-69-04 of the Ohio Administrative Code. This includes the U.S. EPA's "Indoor Radon and Radon Decay Product Measurement Device Protocols". Users of passive radon detectors need to ensure that they are conducting the following QA measurements.

**Duplicates** – Duplicate measurements are side-by-side measurements made in at least ten (10) percent of the total number of measurement locations, or 50 each month, whichever is smaller. The results of these measurements shall be tracked using log sheets and control charts.

**Blanks** – Field blanks measure the background exposure that may accumulate during shipment and storage. Blanks are to be performed at a rate of five (5) percent of the detectors that are deployed, or 25 each month, whichever is smaller. The results of these measurements shall be monitored, recorded and tracked by using a log sheet.

**Spikes** – Spike samples consist of detectors that have been exposed to known concentrations in a radon calibration chamber. This chamber shall be listed with either the National Radon Safety Board (NRSB) or the National Environmental Health Association – National Radon Proficiency Program (NEHA-NRPP). Spikes need to be performed at a rate of three (3) percent of the detectors that are deployed, with a minimum of three (3) per year and a maximum of six (6) per month. The results of spiked measurements shall also be recorded and tracked using log sheets and control charts.

Failure to conduct the required QA measurement may constitute violations of Chapter 3732 of the Ohio Revised Code and Chapter 3701-69 of the Ohio Administrative Code.

For questions concerning this memorandum please contact the Radon Licensing Program at 614-644-2727.