

Application Form

Radon Gas Measurement Proficiency, RMP

Two levels of radon gas measurements are established; Primary and Secondary listing or certification. A primary company or person is authorized to produce results in units of radon concentration. Secondary listing requires an applying person or company to use measurement devices that are read out by primary certified or listed persons or companies. RMP is intended for persons or companies working toward primary measurements.

Radon Measurement Proficiency is a two part program consisting of a general application to a certifying State and or to the National Radon Safety Board, NRSB. The first part of the program is a general application which includes taking approved radon measurements training, passing the NRSB Measurement Specialist Exam, and completing a quality assurance, quality control plan.

The second part is demonstrating that acceptable radon gas measurements can be made by the applicant. This application deals with the second part, and is termed Radon Measurement Proficiency, RMP. Various radon measurement devices can be used. They are AC, AT, CR, EL, ES, LS, PB, GS, GC, and GB detectors, (see note). The applicant is referred to EPA-402-R-92-004, Indoor Radon and Decay Product Measurement Device Protocols., July 1992 for a complete description of the devices listed above. TCS Industries Inc, TCS, can provide a copy on a Compact Disk.

Step one is to have your device or method calibrated.

Step two is to complete this form and contact TCS to schedule a RMP session.

Five (5) passive detectors and /or one (1) of any active detector model must be submitted for RMP The devices **must be listed** by the USEPA for radon gas measurements. Contact *TCS Industries Inc, 4326 Crestview Rd, Harrisburg, PA 17112, 717-657-7032* or email radondetek@comcast.net. The RMP Fee schedule can be found on the Chamber web page www.radondetek.com.

Application Information

1.1_ Type of Application

_____ initial application for a primary listing

_____ amendment to an initial application

_____ reapplication

1.2 Applicant Name

Please print your company's name, address, and contact info (phone &/or email).

1.3 NRSB or State Radon Certification Number if Known _____

2.0 Measurement Method

Please enter the measurement method associated with your device. Eg. AC, AT, CR, EL, ES, LS, PB, GS, GC, or GB.

_____ measurement method(s) ; _____ make & model

3.0 Device information

3.1 Enter the exposure time (range) you will use or recommend to your customers.

From _____ days, to _____ days
Minimum Maximum

4.0 Reading/ Analysis

4.1 Radon Measurement Performance Test type

_____ Mail-in Performance Test

_____ Walk-in Performance in Harrisburg, PA

5.0 Marketing Area

_____ Primary Certifying State

_____ for broader marketing NRSB Listing is required.

6.0 Signature

First name M.I. Last name

Signature (required)

Please note the above signature MUST BE from the RMP performer. Please print the name of the person who will readout the device. Some States or Listing agencies restrict deployment to every device, listed in the QA plan, and to the device operator who passed RPM with those devices.

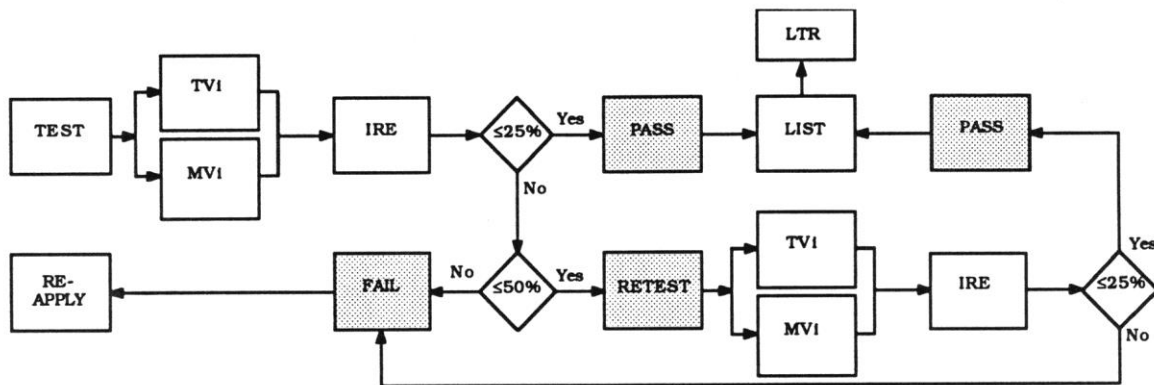
RMP Testing Criteria

A RMP radon measurement has three possible outcomes: to pass; to retest; or to fail. The test criteria is that the participant must achieve an individual relative percent error (IRE) of $\leq 25\%$ for each sample or device in the test set. A PASS is defined as an IRE of $\leq 25\%$ for an initial test or a retest; devices that pass will be listed to a State and/or the NRSB. For the initial test only. A participant with an IRE of $> 25\%$ but $\leq 50\%$ may retest. A fail is defined as an IRE of $> 50\%$ for the initial test and $> 25\%$ for a retest.

Participants who fail a test must successfully reapply before another test can be scheduled. To reapply, participants must prepare a written explanation of why they believe the test failed: any corrective action taken; a description of the calibration procedure used, including the most recent calibration date and data points; name, address, and phone number of the calibration service used.

TV refers to a true or known exposure value and MV to the participant measured value.

The reapplication must be submitted to *TCS who will work with the RMP participant toward success.*



Measurement Test Process and Outcomes

For a **failed test only**, participants may object in writing; all objections must be submitted to the NRSB or to the certifying State whichever is the case. The participant must clearly explain the reasons for disagreement with the test outcome and include a copy of the test report with the objection. The NRSB and/or the State will review the objection and communicate with the participant.

Note:

- AC = Activated Charcoal
- AT= Alpha Track
- CR= Continuous Radon Monitor
- GS=Grab Scintillation
- GC=Grab Charcoal

- LS= Liquid Scintillation (Charcoal)
- ES = Short-term electret ion chamber
- EL= Long-term electret ion chamber
- PB=2 or 3 day Pump Bag
- GB=Grab Bag