

Q: What's KI4U Approach & Commitment?

A: Our approach and commitment here is identical to that we've held at our Potassium Iodide Anti-Radiation Pill FAQ at ki4u.com since 1999, where we strive to provide both the best current information and products, and at prices to where more families can then get prepared, both correctly and confidently.

We have, and will continue to, invest the time, money, and energy to assure the best sources of radiation protection information and products at affordable prices for families wanting to acquire these essential Civil Defense radiation detection survey meters and dosimeters.

To this end we had acquired in the Spring of 2001 the above mentioned 100,000+ items of FEMA Civil Defense survey meters, Geiger counters, dosimeters, chargers and test equipment. (And, hired qualified FEMA trained technicians!) A total of 416 pallet loads were trucked in from the Federal Depot in Fort Worth to our 5,200 square foot warehouse here in Gonzales, Texas.



The building is also home to our calibration labs where, with a trained staff of a dozen now, we are processing, evaluating, testing, grading, calibrating and, as necessary, overhauling these meters and dosimeters. We are also re-calibrating the meters for numerous state and municipal agencies as well as for the general public. We hold a Radioactive Material License issued by the State of Texas for operation of our three CD V-794 Cesium calibrators, and other sources, here at our location.

One of Our Evaluation, Testing, Repair & Calibration Labs in Gonzales, Texas...



All of our personnel have successfully completed both the General Employee Radiological Training and the Radiation Worker Training courses, as well as specialized training on the calibration equipment.


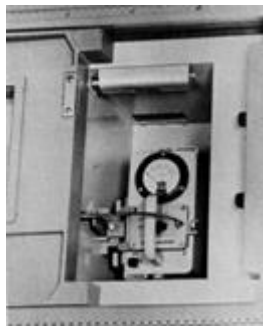
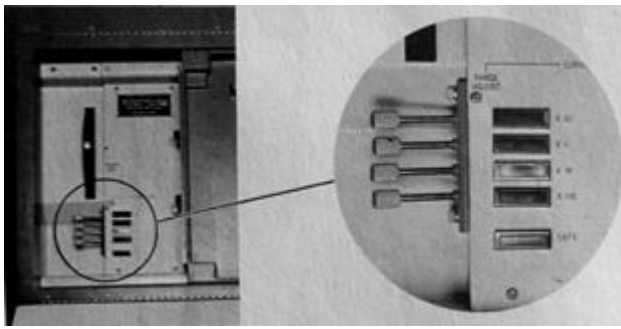
Carl Kee, our full-time RSO (Radiation Safety Officer) and lab director here, has served as an RSO on three separate licenses. He began his career in the early 60's at Oak Ridge National Labs and subsequently served at both Los Alamos National Laboratory and PanTex Nuclear Weapons Plant facility, as well as numerous nuclear power plants. He was a consultant to the Safeguards Program focused on developing the anti-terrorism strategies for nuclear facilities in the US. He was also the Chairman of the Nuclear Technology Program at a southern university for seven years and is the author of five books on the subject. Also, while at the Texas Bureau of Radiation Control, he not only repaired, maintained and calibrated these same FEMA Civil Defense instruments, but was a certified instructor in the proper use of them in a nuclear emergency.

All of the Civil Defense radiation detector meters in our lab are taken through the following preventative maintenance, tests, and evaluations prior to calibration:

- Confirm integrity of case, meter, and snap connections
- Confirm that the mandatory retrofit had been completed on CD V-715's
- Check that extension cable is intact and serviceable on CD V-717's
- Check ion chamber rubber gasket integrity and correct placement on CD V-720's
- 24-hour heat room low moisture dry out.
- Clean battery contacts and battery terminals, as required
- Confirm good ground connections on circuit board
- Check screws attaching the circuit board to the case top
- Visual check of circuit board for metal foil cracks, cold solder joints, or solder bridges
- Clean circuit board with brush and solution, heat to dry
- Clean high megohm resistors, as needed
- Clean high megohm resistors switch, as needed
- Check for dirt contamination of the high impedance feed-thru insulator on ionization chamber, clean if necessary
- Test ionization chamber for loose (broken) internal components
- Test ionization chamber for leakage via Megohm meter, re-coat with clear varnish, if necessary
- Insert battery
- Perform Zero and Circuit Check operations after two minute warmup at Zero setting
- Check meter needle for free movement throughout range
- Commence a power-on 16-hour burn-in to recondition the electrometer tube
- Repeat the Zero and Circuit Check Test
- Perform stability evaluation of the meter needle throughout all the ranges. The needle should not deflect more than three of the smallest increments upscale (0.3 on the meter face) on the "X100", "X10", and "X1" scales and six increments (0.6 on the meter face) on the "X0.1" scale
- Remove batteries
- Check instrument case top gasket, apply light coat of D-5 compound to it, if needed
- Place fresh desiccant packet in case before closing
- Clean outside casing and tag it

Successful completion of the above procedures has the meter then qualified to attempt calibration to mid-range of all it's scales.

All calibration certifications of these Civil Defense survey meters is accomplished here with the CD V-794 calibrators built specifically for these type meters. This calibrator utilizes a N.I.S.T. traceable Cs-137 source that tests and calibrates (adjusts) mid-scale for all the ranges strictly in accordance with industry standards. KI4U, Inc. is licensed and authorized by the State of Texas to perform these calibrations at our lab here conforming to the standards as set forth by the State of Texas, FEMA, ASTM and the NRC.

		
<p>Jig for Remote Range Switching & Adjustments (Jig-ready testing bottom case is used in-place of regular meter case.)</p>	<p>Test Meter in Exposure Chamber with Flex Cable (Range Selector) and Jig Fixture (Range Adjustment) Connected</p>	<p>Calibrator Remote Range Adjustment Tuning Knobs (top to bottom: X0.1, X1, X10, X100)</p>

After successfully calibrating the unit on all scales, they are then certified fully ready for reliable, accurate and confident service in the field.

Successfully calibrated instruments are returned with the label below affixed to them certifying their calibration and stating who calibrated it and when, along with the serial number and model designation. Additionally, a *Certificate of Calibration* with the actual before and after accuracy responses for each of the different ranges available on the instrument is included.

