

Repair, Modification and Calibration Services

Dosimeter Modification

Keithley 602

Modifications include:

- ▶ Installation of 150/300 V electronic bias supply with reversible polarity
- ▶ Replacement of the analog meter with a 4^{1/2} digit LCD
- ▶ Installation of a single 12 V rechargeable battery with wall-mount UL-listed transformer/charger
- ▶ Installation of circuitry to allow bias voltage and battery condition to be read on the display

Similarly, CNMC can modify and improve your other dosimeters.

Available modifications include:

- ▶ Replacing bias batteries with ±300 V, ±150 V electronic bias supply
- ▶ Conversion of input connector to BNC or TNC

Dosimeter Repair

CNMC can generally repair and significantly improve your dosimeter/electrometer regardless of its manufacture. Repairs at 1/2 the cost and/or 1/2 the time are common at CNMC.

Ion Chamber Modification

Thimble, waterproof, plane-parallel, extrapolation and diode detectors of any manufacture. Modifications include:

- ▶ Conversion of any style connector
- ▶ Shortening of cable
- ▶ Farmer thimble (nonwaterproof) conversion from 0.6 cc to 0.2 cc, to acrylic, graphite, or Solid Water™

Ion Chamber Repair

Same day repairs are possible at CNMC, typical chamber repairs include:

- ▶ Thimble replacement (non-waterproof types)
- ▶ Connector repair or replacement
- ▶ Correcting leakage condition
- ▶ Resheathing waterproof ion chambers



Top Left: Keithley 602 Dosimeter



Top Right: Chambers & Triaxial and coaxial cables



Bottom Right: Keithley 614 Dosimeter

Triaxial/Coaxial Cable, Repair and Modification

CNMC manufactures low-noise triaxial and coaxial cables per your specifications with connectors of your choice and custom lengths. CNMC will repair and modify your extension cable. Repair and modification includes:

- ▶ Connector repair or replacement
- ▶ Conversion of any style connector, BNC, TNC, PET, PTW, MDH, etc.
- ▶ Installation in a windup reel

AAPM ADCL Calibration

When scheduled through CNMC, we will thoroughly inspect dosimeter and ionization chamber and report on conditions requiring attention.