

# Preoperational Check of a G-M Survey Meter

## Step 1 – Battery Check

2<sup>nd</sup> step: Make sure the needle is within the 'Bat Test' region.

If necessary, replace the batteries with two D cells.



1<sup>st</sup> step: Turn the knob to the 'Bat' position.

## Step 2 – Background Check

2<sup>nd</sup> step: With a G-M detector in an area where there are no laboratory sources of radiation, background should not exceed 100 cpm.

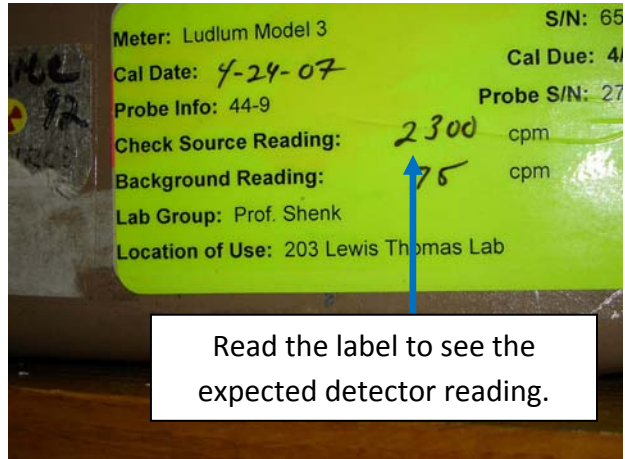


The purpose of the background check is to make sure that the detector is not contaminated or that there are no unusual radiation readings before you begin your survey.

1<sup>st</sup> step: Turn the knob to the lowest scale (X0.1 scale).

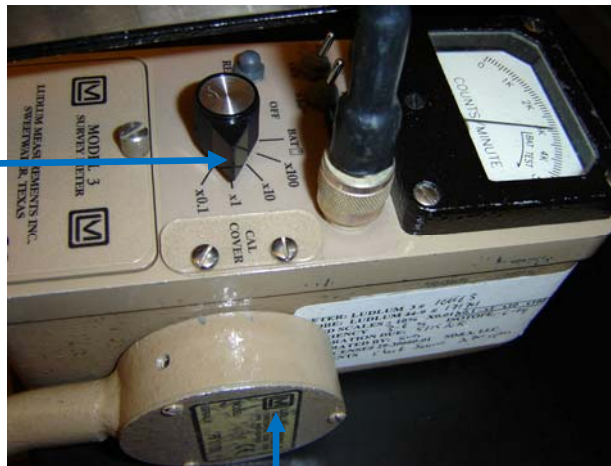
## Step 3 – Source Check

1<sup>st</sup> step: Determine what the expected check source reading should be.



Read the label to see the expected detector reading.

2<sup>nd</sup> step: Turn the knob to the X1 scale (so that the meter reading doesn't go offscale).



3<sup>rd</sup> step: Place the detector in the closest contact with the source. The meter reading should be within  $\pm 20\%$  of the expected check source.

The detector is in close contact with the source.