

**Instrument Field Response Check Log**

**1. Instrument Information**

Ratemeter: Make/Model: LUDLUM 2241-2 Serial No. 262737 Cal. Due Date: 9/2/16  
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR 111127  
 Bicon MicroRem Meter: Serial No. A224U Cal. Due Date: 8/4/16

**2. Check Source Information:**

Source 1 Isotope: Th-232 Serial No.: 116 Activity: <0.1 units: µCi Assay Date: 12/30/10  
 Response Acceptance Range (+/-20%): uRem/hr +20% uRem/hr -20% net cpm + 20% 22926 net cpm -20% 15284  
 Source 2 Isotope: Cs-137 Serial No.: 87F13-48 Activity: 0.02 units: µCi Assay Date: 1/20/10  
 Response Acceptance Range (+/-20%): uRem/hr +20% uRem/hr -20% net cpm + 20% 13375 net cpm -20% 8919

**3. Technician/Worker Performing Checks:**

Name: STEVE KINSMAN Title: RC Date: 12/21/15 Time: 0830

**4. Site or Location:**

Site/Job: BFA 1 Location Description: FIELD  
 GPS Coordinates (when required): X-Coord: N 42 25 54.49 Y-Coord: W 78 38 17.24

Meter	Instrument Field Response				Use Acceptance Criteria				Remarks	
	Bkg Cnt Time (min)	Bkg Counts (cpm) or uRem/hr	Source Cnt Time (min)	Source Response (gross cpm or uRem/hr)	+/- 20% source gross cpm or uRem/hr (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check		Ambient Temp. (°F)
Ratemeter	1	6705	1	19313	Y	Y	Y	0830	48.2	Th232 SK
Ratemeter	1	6705	1	19335	Y	Y	Y	0830	48.2	Cs137 SK
Ratemeter	1	7729	1	19464	Y	Y	Y	1200	46.1	Th232 SK
Ratemeter	1	7729	1	10722	Y	Y	Y	1200	46.1	Cs137 SK
Ratemeter	1	7713	1	20402	Y	Y	Y	1500	45.1	Th232 SK
Ratemeter	1	7713	1	11311	Y	Y	Y	1500	45.1	Cs137 SK
Bicon	NA	5	NA	17	Y	Y	Y	0830	48.2	Th232 SK
Bicon	NA	6	NA	18	Y	Y	Y	1200	46.1	Th232 SK
Bicon	NA	8	NA	19	Y	Y	Y	1500	45.1	Th232 SK

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability.