

Instrument Field Response Check Log

1. Instrument Information¹

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
 Bicron 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: J. Edwards Title: RCT Date: 11/02/15 Time: 0857

4. Site or Location: Site/Job: C-3

Location Description: _____
 GPS Coordinates (when required): X-Coord: N 42° 27' 05.2" Coord: W 078° 38' 50.7"

Instrument Field Response ²					Use Acceptance Criteria				Remarks	
Meter	Bkg Cnt Time	Bkg Counts (cpm) or uRem/hr	Source Cnt Time	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)	Initials and Comments (add'l info: inst. Condition, etc.)
Ratemeter	1min	6822cpm	1min	19447cpm	Y	Y	Y	0902	53.2°	Th-232 JK
Ratemeter			1min	10731cpm	Y	Y	Y	0908	53.4°	Cs-137 JK
Ratemeter	1min	8060cpm	1min	20355cpm	Y	Y	Y	1300	69.8	Th-232 SK
Ratemeter			1min	11589cpm	Y	Y	Y	1300	69.8	Cs-137 SK
Ratemeter				N/A						
Ratemeter				N/A						
Bicron	NA	4 uRem/hr	NA	16.5 uRem/hr	Y	Y	Y	0904	53.2°	
Bicron	NA	5 uRem/hr	NA	16 uRem/hr	Y	Y	Y	1300	69.8	
Bicron	NA	N/A	NA	N/A		N/A				

1. 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.
 2. 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