



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: STEVE KINSMAN Title: RCT Date: 12/14/15 Time: 0800

4. Site or Location:

Site/Job: S-1 Location Description: WOODS

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

Instrument Field Response ¹					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	1	7642	1	19887	Y	Y	Y	0815	60.4	Th232 SK
Ratemeter	1	7642	1	11368	Y	Y	Y	0815	60.4	Cs137 SK
Ratemeter	1	7797	1	20369	Y	Y	Y	1230	69.8	Th232 SK
Ratemeter	1	7797	1	11539	Y	Y	Y	1230	69.8	Cs137 SK
Ratemeter	1	7156	1	19588	Y	Y	Y	1430	68.6	Th232 SK
Ratemeter	1	7156	1	10489	Y	Y	Y	1430	68.6	Cs137 SK
Bicron	NA	6	NA	18	Y	Y	Y	0815	60.4	Th232 SK
Bicron	NA	6	NA	18	Y	Y	Y	1230	69.8	Th232 SK
Bicron	NA	8	NA	18	Y	Y	Y	1430	68.6	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 changes significantly, perform additional counts to evaluate instrument stability.

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 200098 Cal. Due Date: 09/01/16
 Detector 1: Make/Model: Ludlum 44-10 Serial No. PR112642
 Bicron MicroRem Meter: Serial No. _____ Cal. Due Date: _____

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111 Activity: 0.1 units: uCi Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53798 net cpm -20% 35866
 Source 2 Isotope: Cs-137 Serial No.: 119E23-12 Activity: 0.02 units: uCi Assay Date: NA
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13273 net cpm -20% 8349

3. Technician/Worker Performing Checks:

Name: J. Edwards Title: RCT Date: 12/14/15 Time: 0811

4. Site or Location:

Site/Job: SED Location Description: parking lot
 GPS Coordinates (when required): X-Coord: N 42° 32' 27.774" Y-Coord: W 78° 59' 50.396"

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	8827 cpm	1min	45970 cpm	Y	Y	Y	0820	57.4°	Th-232 JE
Ratemeter			1min	10664 cpm	Y	Y	Y	0823	57.4°	Cs-137 JE
Ratemeter	1min	8646 cpm	1min	45597 cpm	Y	Y	Y	1059	62.8°	Th-232 JE
Ratemeter			1min	10887 cpm	Y	Y	Y	1103	62.8°	Cs-137 JE
Ratemeter	1min	8852 cpm	1min	44732 cpm	Y	Y	Y	1444	65.2°	Th-232 JE
Ratemeter			1min	9941 cpm	Y	Y	Y	1448	65.2°	Cs-137 JE
Bicron	NA	6 uRem/hr	NA	35 uRem/hr	Y	Y	Y	1101	67.9°	Th-232 JE
Bicron	NA	7 uRem/hr	NA	410 uRem/hr	Y	Y	Y	1434	65.2°	Th-232 JE
Bicron	NA		NA							

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

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 200098 Cal. Due Date: 09/01/16
 Detector 1: Make/Model: Ludlum 44-10 Serial No. 7R112642
 Bicron MicroRem Meter: Serial No. _____ Cal. Due Date: _____

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111 Activity: 200 units: µCi Assay Date: 12/30/0
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm +20% 55798 net cpm -20% 35866
 Source 2 Isotope: Cs-137 Serial No.: 119E3-12 Activity: 0.02 units: µCi Assay Date: _____
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm +20% 13273 net cpm -20% 8849

3. Technician/Worker Performing Checks:

Name: J. Edwards Title: RCT Date: 12/16/15 Time: 0824

4. Site or Location:

Site/Job: Area 5.1 Location Description: woods
 GPS Coordinates (when required): X-Coord: N 42° 30' 45.446" Y-Coord: W 78° 58' 15.324"

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	5149 cpm	1min	44662 cpm	Y	Y	Y	0826	39.7°	Th-232 JE
Ratemeter			1min	10097 cpm	Y	Y	Y	0831	39.8°	Cs-137 JE
Ratemeter	1min	8459	1min	44240 cpm	Y	Y	Y	1135	46.2°	Th-232 JE
Ratemeter			1min	10365 cpm	Y	Y	Y	1140	46.2°	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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