MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 7241-2 Serial No. 262641 Cal. Due Date: 11/03/15
   Detector 1: Make/Model: Ludlum 44.10 Serial No. PR288429
   Bicron MicroRem Meter: Serial No. 1487 Cal. Due Date: 06/18/15

2. **Check Source Information:**
   Source 1 Isotope: Tl232 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: w/A
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13273 net cpm -20% 8849

3. **Technician/Worker Performing Checks:**
   Name: Lee Eatemy Title: RCT Date: 10/22/15 Time: 09:11

4. **Site or Location**: Site/Job: 1.1 & 1.2 Location Description: Driveway by Car
   GPS Coordinates (when required): X-Coord: 43° 28' 12.3 Y-Coord: 078° 41' 06.0

	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.)
1 Ratemeter	1.0	7149	1.0	9310	Y	Y	Y	09:20	60.9°	SC. Taken on concrete
2 Ratemeter	1.0	7344	1.0	9597	Y	Y	Y	11:10	60.4°	Driveway *
Ratemeter										
Ratemeter										
Bicron	NA	7.0	NA	400	Y	Y	Y	09:11		*
2 Bicron	NA	7.0	NA	360	Y	Y	Y	11:00		*
Bicron	NA		NA							
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

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Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   - Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 262737 Cal. Due Date: 9/2/16
   - Detector 1: Make/Model: Ludlum 44-10 Serial No. PR111127
   - **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: uci 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.: 87E13-48 Activity: .02 units: uci 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: 10/27/15 Time: 0845

4. **Site or Location:** Site/Job: AREA 1 Location Description: NYSERDA
   GPS Coordinates (when required): X-Coord: N 42° 27' 17.1" Y-Coord: W 078° 39' 41.5"

	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	1 MIN	8115	1 MIN	19687	Y	Y	Y	0845	41.9	Th 232
Ratemeter	1 MIN	8115	1 MIN	11565	Y	Y	Y	0845	41.9	Cs 137
Ratemeter	1 MIN	7666	1 MIN	19014	Y	Y	Y	1415	59.1	Th 232
Ratemeter	1 MIN	7666	1 MIN	11034	Y	Y	Y	1415	59.1	Cs 137
Ratemeter	1 MIN	7384	1 MIN	19504	Y	Y	Y	1515	58.8	Th 232
Ratemeter	1 MIN	7384	1 MIN	10894	Y	Y	Y	1515	58.8	Cs 137
Bicron	NA	5	NA	17	Y	Y	Y	0845	41.9	
Bicron	NA	6	NA	18	Y	Y	Y	1415	59.1	
Bicron	NA	6	NA	18	Y	Y	Y	1515	58.8	

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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