

LANDAUER[®]

Customer: Jen Schmitt
Upstate Medical Physics
6536 Anthony Dr
Suite B
Victor NY 14564

Instrument
Victoreen Model 451B

Serial Number
1074

Precision Check				
Test1	Test2	Test3	Mean	Results
25.00 mR/hr	25.00 mR/hr	25.00 mR/hr	25.00 mR/hr	Pass

Accuracy Check				
Range	Target Value	As Found	As Left	Source ID
Rate	25 R/hr	23 R/hr	23 R/hr	R-028/R-122
Rate	2.5 R/hr	2.6 R/hr	2.6 R/hr	R-028/R-122
Rate	250 mR/hr	230 mR/hr	230 mR/hr	R-028/R-122
Rate	25 mR/hr	25 mR/hr	25 mR/hr	R-137
Rate	2.5 mR/hr	2.5 mR/hr	2.5 mR/hr	R-137
Integrate	200 mR	200 mR	200 mR	R-028/R-122
Integrate	50 mR	52 mR	52 mR	R-028/R-122

Readings with * indicate ranges where As-Found readings are >20% of Target value.

Readings with ** indicate As-left readings are >10% of Target value.

Readings with # indicate ranges were calibrated using a pulser

Physical Checks
Outer Physical Check: Pass
Internal Physical Check: Pass
Tap Test: Pass
Desiccant Check: Pass (Changed Desiccant)

Comments:

Customer Equipment ID:

Calibrated By Ned
Howard



QC Review By Jarod
Fagan



Date: Jul 21, 2026
Expires: Jul 21, 2027
QC Date: Jul 21, 2026

Atmospheric Conditions - Temperature: 70.3 °F, Humidity: 44.4 %, Barometric Pressure: 29.88 in/hg.

In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated.

Unless otherwise stated, this calibration was performed by RSCS at 93 Ledge Rd, Seabrook, NH utilizing the following NIST Traceable sources:
R-028/R-122 - J.L. Shepherd and Associates Model 89 Cs-137 Box Calibrator (S/N 9141), characterized using Exradin, Model A6 (S/N 185), A3 (S/N 197), A12 (S/N XA091124), and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in the current RSCS TSD, with estimated uncertainty of 2.7% (Cal Due: Jan 07, 2027)

R-137 - Tech Ops Model 773 Cs-137 Beam Calibrator (S/N S-1110), characterized using Exradin Model A6 (S/N 185) and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in the current RSCS TSD, with estimated uncertainty of 6.0% (Cal Due: Aug 29, 2026)

Worked on calibration: Ned Howard

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%.

Unless otherwise stated, calibrations performed in conformance to the following documents: ANSI N323AB-2013; RSCS New Hampshire Radioactive Material License Number 381R. RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedures.

Calibration Laboratory is operated in accordance with ANSI/NCSL Z540-1-1994.

RSCS, Inc. has been assessed by ANAB and meets the requirements of ISO/IEC 17025:2017 while demonstrating technical competence in the field of calibration. Refer to the Scope of Accreditation AC-2079 for information on the types of calibrations to which this accreditation applies.

This calibration certificate shall not be reproduced except in full without the express written consent of RSCS, Inc.



Customer: Jen Schmitt
Upstate Medical Physics
6536 Anthony Dr
Suite B
Victor NY 14564

Instrument
Victoreen Model 451P

Serial Number
3869

Precision Check				
Test1	Test2	Test3	Mean	Results
2.40 mR/hr	2.40 mR/hr	2.40 mR/hr	2.40 mR/hr	Pass

Accuracy Check				
Range	Target Value	As Found	As Left	Source ID
Rate	2.5 R/hr	2.4 R/hr	2.4 R/hr	R-028/R-122
Rate	250 mR/hr	210 mR/hr	260 mR/hr	R-028/R-122
Rate	25 mR/hr	23 mR/hr	23 mR/hr	R-137
Rate	2.5 mR/hr	2.4 mR/hr	2.4 mR/hr	R-137
Rate	250 µR/Hr	250 µR/Hr	250 µR/Hr	R-137
Integrate	80 mR	77 mR	77 mR	R-028/R-122
Integrate	20 mR	18.2 mR	18.4 mR	R-028/R-122

Readings with * indicate ranges where As-Found readings are >20% of Target value.

Readings with ** indicate As-left readings are >10% of Target value.

Readings with # indicate ranges were calibrated using a pulser

Physical Checks
Outer Physical Check: Pass
Tap Test: Pass

Comments:

As found / As left

Calibration Factor

F1 95 / 95

F2 111 / 111

F3 106 / 106

F4 90 / 90

F5 90 / 115

F6 100/100 - 100/100

Customer Equipment ID:

Calibrated By Ned
Howard

QC Review By Jarod
Fagan

Date: Jun 22, 2026

Expires: Jun 22, 2027

QC Date: Jun 23, 2026

Atmospheric Conditions - Temperature: 69.0 °F, Humidity: 52.7 %, Barometric Pressure: 29.97 in/hg.

In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated.

Unless otherwise stated, this calibration was performed by RSCS at 93 Ledge Rd, Seabrook, NH utilizing the following NIST Traceable sources: R-028/R-122 - J.L. Shepherd and Associates Model 89 Cs-137 Box Calibrator (S/N 9141), characterized using Exradin, Model A6 (S/N 185), A3 (S/N 197), A12 (S/N XA091124), and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 25-002, with estimated uncertainty of 2.7% (Cal Due: Jan 07, 2027)

R-137 - Tech Ops Model 773 Cs-137 Beam Calibrator (S/N S-1110), characterized using Exradin Model A6 (S/N 185) and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 25-001, with estimated uncertainty of 6.0% (Cal Due: Aug 29, 2026)

Worked on calibration: Jarod Fagan\ Ned Howard

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%.

Unless otherwise stated, calibrations performed in conformance to the following documents: ANSI N323AB-2013; RSCS New Hampshire Radioactive Material License Number 381R. RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedures.

Calibration Laboratory is operated in accordance with ANSI/NCSL Z540-1-1994.

RSCS, Inc. has been assessed by ANAB and meets the requirements of ISO/IEC 17025:2017 while demonstrating technical competence in the field of



Customer: Jen Schmitt
Upstate Medical Physics
6536 Anthony Dr
Suite B
Victor NY 14564

Instrument
Victoreen Model 451B

Serial Number
799

Precision Check				
Test1	Test2	Test3	Mean	Results
106.00 mR/hr	106.00 mR/hr	105.00 mR/hr	105.67 mR/hr	Pass

Accuracy Check				
Range	Target Value	As Found	As Left	Source ID
Rate	40 R/hr	36 R/hr	36 R/hr	R-028/R-122
Rate	10 R/hr	10.6 R/hr	10.6 R/hr	R-028/R-122
Rate	4 R/hr	4 R/hr	4 R/hr	R-028/R-122
Rate	1 R/hr	1.03 R/hr	1.03 R/hr	R-028/R-122
Rate	400 mR/hr	390 mR/hr	390 mR/hr	R-028/R-122
Rate	100 mR/hr	106 mR/hr	106 mR/hr	R-028/R-122
Rate	40 mR/hr	41 mR/hr	41 mR/hr	R-137
Rate	10 mR/hr	10.4 mR/hr	10.4 mR/hr	R-137
Rate	4 mR/hr	4 mR/hr	4.1 mR/hr	R-137
Rate	1 mR/hr	1.03 mR/hr	1.01 mR/hr	R-137
Integrate	200 mR	199 mR	199 mR	R-028/R-122
Integrate	50 mR	51 mR	51 mR	R-028/R-122

Readings with * indicate ranges where As-Found readings are >20% of Target value.

Readings with ** indicate As-left readings are >10% of Target value.

Readings with # indicate ranges were calibrated using a pulser

Physical Checks
Outer Physical Check: Pass
Internal Physical Check: Pass
Tap Test: Pass
Desiccant Check: Pass (3/2/2026)

Comments:

As Found/As Left Calibration Factors

F1:100/100

F2:96/96

F3:99/99

F4:95/95

F5:93/93

F6:100/100 - 100/100

All as left readings were taken subsequent to desiccant change

Customer Equipment ID: 00494

Calibrated By Alana
Sullivan

QC Review By Jarod
Fagan

Date: Mar 03, 2026

Expires: Mar 03, 2027

QC Date: Mar 03, 2026

Atmospheric Conditions - Temperature: 73.0 °F, Humidity: 21.2 %, Barometric Pressure:30.53 in/hg.

In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated.

Unless otherwise stated, this calibration was performed by RSCS at 93 Ledge Rd, Seabrook, NH utilizing the following NIST Traceable sources: R-028/R-122 - J.L. Shepherd and Associates Model 89 Cs-137 Box Calibrator (S/N 9141), characterized using Exradin, Model A6 (S/N 185), A3 (S/N 197), A12 (S/N XA091124), and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-001, with estimated uncertainty of 2.7% (Cal Due: Jan 07, 2027)

R-137 - Tech Ops Model 773 Cs-137 Beam Calibrator (S/N S-1110), characterized using Exradin Model A6 (S/N 185) and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-008, with estimated uncertainty of 6.0% (Cal Due: Aug 29, 2026)

Worked on calibration: Alana Sullivan

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%.

Unless otherwise stated, calibrations performed in conformance to the following documents: ANSI N323AB-2013; RSCS New Hampshire Radioactive Material License Number 381R. RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedures.

Calibration Laboratory is operated in accordance with ANSI/NC SL Z540-1-1994.

RSCS, Inc. has been assessed by ANAB and meets the requirements of ISO/IEC 17025:2017 while demonstrating technical competence in the field of calibration. Refer to the Scope of Accreditation AC-2079 for information on the types of calibrations to which this accreditation applies.

This calibration certificate shall not be reproduced except in full without the express written consent of RSCS, Inc.



Calibration Certificate - ID Number: 26430600000 - 20260130 - 0

Customer: Jen Schmitt
Upstate Medical Physics
6536 Anthony Dr
Suite B
Victor NY 14564

Instrument
Ludlum Model 3-241R
Probe Model
Ludlum 44-38
Ludlum 44-9

Serial Number
264306
Serial Number
567
388694

Precision Check				
Test1	Test2	Test3	Mean	Results
40.00 mR/hr	40.00 mR/hr	40.00 mR/hr	40.00 mR/hr	Pass

Accuracy Check				
Range	Target Value	As Found	As Left	Source ID
X100	160 mR/hr	175 mR/hr	175 mR/hr	R-137
X100	40 mR/hr	40 mR/hr	40 mR/hr	R-137
X10	16 mR/hr	16 mR/hr	16 mR/hr	R-137
X10	4 mR/hr	4 mR/hr	4 mR/hr	R-137
X1	1.6 mR/hr	1.55 mR/hr	1.55 mR/hr	R-137
X1	0.4 mR/hr	0.4 mR/hr	0.4 mR/hr	R-137
X.1	0.16 mR/hr #	0.15 mR/hr #	0.17 mR/hr #	4084.01
X.1	0.04 mR/hr #	0.035 mR/hr #	0.04 mR/hr #	4084.01

Readings with * indicate ranges where As-Found readings are >20% of Target value.

Readings with ** indicate As-left readings are >10% of Target value.

Readings with # indicate ranges were calibrated using a pulser

Probe	Isotope	Efficiency	NIST Source ID	Geometry	Comment
44-9 388694	Tc-99m	0.0003 C/D (4 Pi)	2501-1 Co-57	1 cm	

Physical Checks
Outer Physical Check: Pass
Internal Physical Check: Pass
Geotropism Check: Pass
Mechanical Zero Check: Pass
Tap Test: Pass
Audio Function Check: Pass
Cable Check: Pass

Electronics Checks	As Found	As Left
High Voltage	900 Volts	900 Volts

Comments:

44-38 probe calibrated perpendicular to the source with window closed

Customer Equipment ID:

Calibrated By Ned
Howard

Ned Howard

QC Review By Jarod
Fagan

Jarod Fagan

Date: Jan 30, 2026

Expires: Jan 30, 2027

QC Date: Feb 02, 2026

Atmospheric Conditions - Temperature: 72.5 °F, Humidity: 19.8 %, Barometric Pressure: 29.85 in/hg.

In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated.

Unless otherwise stated, this calibration was performed by RSCS at 93 Ledge Rd, Seabrook, NH utilizing the following NIST Traceable sources:

4084.01 - (Cal Due: May 22, 2026)

R-137 - Tech Ops Model 773 Cs-137 Beam Calibrator (S/N S-1110), characterized using Exradin Model A6 (S/N 185) and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-008, with estimated uncertainty of 6.0% (Cal Due: Aug 29, 2026)

Worked on calibration: Ned Howard

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%.

LANDAUER

Customer: Jen Schmitt
Upstate Medical Physics
1290 Blossom Drive
Victor NY 14564

Instrument
Victoreen Model 451B

Serial Number
452

Precision Check				
Test1	Test2	Test3	Mean	Results
1.05 R/hr	1.05 R/hr	1.05 R/hr	1.05 R/hr	Pass

Accuracy Check				
Range	Target Value	As Found	As Left	Source ID
Rate	40 R/hr	36 R/hr	36 R/hr	R-028/R-122
Rate	10 R/hr	10.3 R/hr	10.3 R/hr	R-028/R-122
Rate	4 R/hr	4.1 R/hr	4.1 R/hr	R-028/R-122
Rate	1 R/hr	1.05 R/hr	1.05 R/hr	R-028/R-122
Rate	400 mR/hr	390 mR/hr	390 mR/hr	R-028/R-122
Rate	100 mR/hr	106 mR/hr	106 mR/hr	R-028/R-122
Rate	40 mR/hr	38 mR/hr	38 mR/hr	R-137
Rate	10 mR/hr	9.8 mR/hr	9.8 mR/hr	R-137
Rate	4 mR/hr	3.7 mR/hr	3.7 mR/hr	R-137
Rate	1 mR/hr	0.95 mR/hr	0.95 mR/hr	R-137
Integrate	200 mR	200 mR	200 mR	R-028/R-122
Integrate	50 mR	52 mR	52 mR	R-028/R-122

Readings with * indicate ranges where As-Found readings are >20% of Target value.

Readings with ** indicate As-left readings are >10% of Target value.

Readings with # indicate ranges were calibrated using a pulser

Physical Checks
Outer Physical Check: Pass
Internal Physical Check: Pass
Tap Test: Pass
Desiccant Check: Pass

Comments:

Customer Equipment ID:

Calibrated By Ned
Howard



QC Review By Jarod
Fagan



Date: Oct 01, 2025

Expires: Oct 01, 2026

QC Date: Oct 01, 2025

Atmospheric Conditions - Temperature: 70.0 °F, Humidity: 53.4 %, Barometric Pressure: 30.11 in/hg.

In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated.

Unless otherwise stated, this calibration was performed by RSCS at 93 Ledge Rd, Seabrook, NH utilizing the following NIST Traceable sources:

R-028/R-122 - J.L. Shepherd and Associates Model 89 Cs-137 Box Calibrator (S/N 9141), characterized using Exradin, Model A6 (S/N 185), A3 (S/N 197), A12 (S/N XA091124), and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-001, with estimated uncertainty of 2.7% (Cal Due: Jan 03, 2026)

R-137 - Tech Ops Model 773 Cs-137 Beam Calibrator (S/N S-1110), characterized using Exradin Model A6 (S/N 185) and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-008, with estimated uncertainty of 6.0% (Cal Due: Jan 03, 2026)

Worked on calibration: Ned Howard

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%.

Unless otherwise stated, calibrations performed in conformance to the following documents: ANSI N323AB-2013; RSCS New Hampshire Radioactive Material License Number 381R. RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedures.

Calibration Laboratory is operated in accordance with ANSI/NCSL Z540-1-1994.

RSCS, Inc. has been assessed by ANAB and meets the requirements of ISO/IEC 17025:2017 while demonstrating technical competence in the field of

Customer:
Upstate Medical Physics
1290 Blossom Drive
Victor, NY 14564

Instrument
Fluke Biomedical Model 451P

Serial Number
3096

Precision Check				
Test 1	Test 2	Test 3	Mean	Results
10.10 mR/hr	10.30 mR/hr	9.80 mR/hr	10.07 mR/hr	Satisfactory

Accuracy Check			
Range	Target Value	As Found	As Left
Rate	4 R/hr	3.4 R/hr	4.1 R/hr
Rate	1 R/hr	0.84 R/hr	0.99 R/hr
Rate	400 mR/hr	340 mR/hr	400 mR/hr
Rate	100 mR/hr	88 mR/hr	104 mR/hr
Rate	40 mR/hr	37 mR/hr	39 mR/hr
Rate	10 mR/hr	9.2 mR/hr	10.1 mR/hr
Rate	4 mR/hr	3.2 mR/hr	3.6 mR/hr
Rate	1 mR/hr	0.9 mR/hr	0.95 mR/hr
Rate	400 µR/hr	370 µR/hr	370 µR/hr
Rate	100 µR/hr	103 µR/hr	103 µR/hr
Integrate	80 mR	69 mR	81 mR
Integrate	20 mR	16.6 mR	19 mR

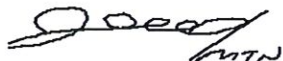
Readings with * indicate ranges where As-Found readings are >20% of Target value. Readings with ** indicate As-left readings are >10.00% of Target value

Outer Physical Check: <i>Pass</i>	Tap Test: <i>Pass</i>
Internal Check: <i>Pass</i>	

Comments: All readings 10 mR/hr or higher and the integrate readings were obtained using the J.L. Shepherd and Associates Model 89 Cs-137 Box Calibrator (S/N: 9141). All other readings were obtained using the Tech Ops Model 773 Cs-137 Beam Calibrator (S/N: S-1110).

As-Found/As-Left Calibration Factors: F1 = 107/107, F2 = 115/120, F3 = 110/115, F4 = 100/117, F5 = 92/105, INT = 100/100

Chris Pirie
Calibration
Technician



QA
Review: 

Calibration Date: 04/10/2019
Expires: 04/10/2020

Atmospheric Conditions - Temperature: 71°F Humidity: 33% Barometric Pressure: 29.64"hg

This calibration was performed by RSCS using one or more of the following NIST Traceable radiation sources:

Tech Ops Model 773 Cs-137 Beam Calibrator (S/N S-1110), characterized using Exradin Model A6 (S/N 185) and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-008, with estimated uncertainty of 6.0%.

J.L. Shepherd and Associates Model 89 Cs-137 Box Calibrator (S/N 9141), characterized using Exradin, Model A6 (S/N 185), A3 (S/N 197), A12 (S/N XA091124), and Keithley Electrometer Model 617 (S/N 0547677) in accordance with methods specified in RSCS TSD 11-001, with estimated uncertainty of 2.7%.

RSCS Neutron Calibrator, AmBe Source Model NUMEC-AM-31 (S/N Am-478), characterized using Far West Technologies Model FWAD-1 "HAWK" TEPC (S/N 021) in accordance with the methods specified in RSCS TSD 13-002, with estimated uncertainty of 9.4%

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%

Unless otherwise stated, calibrations performed in conformance to the following documents: ANSI N323AB-2013; RSCS New Hampshire Radioactive Material License Number 381R.

RSCS calibration services are performed in accordance with the RSCS Radiation Protection Program Manual and Standard Operating Procedures.

Calibration Laboratory is operated in accordance with ANSI/NCSL Z540-1-1994

RSCS, Inc. has been assessed by ANAB and meets the requirements of ISO/IEC 17025:2005 while demonstrating technical competence in the field of calibration. Refer to the Scope of Accreditation AC-2079 for information on the types of calibrations to which this accreditation applies.

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Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.

 501 Oak Street
325-235-5494

Sweetwater, TX 79556, U.S.A.



CERT # 4084.01

Customer LANDAUER MEDICAL PHYSICSORDER NO. 20440721/536615Mfg. Fluke Model 451P-RYR Serial No. 7206

Mfg. _____ Model _____ Serial No. _____

Cal. Date 18-Feb-23 Cal Due Date 18-Feb-24 Cal. Interval 1 Year Meterface DigitalCheck mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 76 °F RH 15 % Alt 706.6 mm Hg
☐ New Instrument ☐ Instrument Received ☐ Within Toler. $\pm 10\%$ ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☒ Other-See comments

☒ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity

☐ F/S Resp. ck. ☐ Reset ck. ☐ Window Operation ☐ Geotropism

☐ Audio ck. ☐ Alarm Setting ck. ☐ Batt. ck.
☐ Calibrated in accordance with LMI SOP 14.8☒ Calibrated in accordance with LMI SOP 14.9

Instrument Volt Set _____ V Input Sens. _____ mV Det. Oper. _____ V at _____ mV Threshold Dial Ratio _____ = _____ mV

☐ HV Readout (2 points) Ref./Inst. _____ / _____ V Ref./Inst. _____ / _____ V

COMMENTS:

Instrument received with chamber depressurized.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

Multimeter uncertainty within 1.3% of reading, Gamma uncertainty within 5.0% of reading, Neutron uncertainty within 7.0% of reading, Count rate uncertainty within 5.4% of reading

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING
Digital			
Digital			
Digital			
Digital			
Digital			
Digital			
Digital			
Digital			
Digital			
Digital			

Range(s) Calibrated Electronically

Digital	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING	Log	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Readout	2 R/hr	<u>NA</u>	<u>2.0 R/hr</u>	Scale			
	200 mR/hr		<u>200 mR/hr</u>				
	20 mR/hr		<u>20</u>				
	2 mR/hr		<u>2.0</u>				
	200 μ R/hr		<u>200 μR/hr</u>				

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques.

All pass/fail determinations are based on the manufacturer's specifications without considering uncertainty factors.

Measurement results represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k=2.

 ISO/IEC 17025:2017(E)
State of Texas Calibration License No. LO-1963

The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323AB-2013

Reference Instruments and/or Sources: Cs-137 S/N: ☐ 059 ☐ 2171CP ☐ 2261CP ☐ 720 ☐ 734 ☐ 781 ☐ 1131 ☐ 1616 ☐ 1696 ☐ 1909 ☐ 1916CP ☒ 2324/2521
☐ 5717CO ☐ 5719CO ☐ 60646 ☐ 70897 ☐ 73410 ☐ E552 ☒ G112 ☒ 2168CP ☐ S-394 ☐ S-1054 ☐ T10081 ☐ T10082 Neutron Am-241 Be ☐ T-304 Ra-226 ☐ Y982
☐ E551 ☐ 5105 ☐ CSV280

☐ Alpha S/N _____ ☐ Beta S/N _____ ☐ Other _____

☐ m 500 S/N _____ ☐ Oscilloscope S/N _____ ☐ Multimeter S/N _____
Calibrator Donnie Miekos Title Calibrator Date 18 Feb 23QC'd By Rid. 6 Title Final QC Date 20 Feb 23