

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 & ANSI/NCSL Z540-1-1994

LUDLUM MEASUREMENTS INC. 501 Oak Street Sweetwater, TX 79556

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CALIBRATION

Valid To: September 30, 2026 Certificate Number: 4084.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations^{1, 3}:

I. Ionizing Radiation & Radioactivity

Parameter/ Equipment	Range	CMC ² (±)	Comments
Gamma Exposure/Dose Rate Cs-137	100 μR/hr to 800 R/hr 1 μSv/hr to 8 Sv/hr	5.6 % of reading	Beam calibrator
	(0.001 to 2500) V	1.4 % of reading	Multimeter
Neutron Dose Rate Instruments	(2 to 800) mRem/hr 20 μSv/hr to 8 mSv/hr	7.0 % of reading	Transfer method
	(0.001 to 2500) V	1.4 % of reading	Multimeter
Count Rate Instruments	(1 to 9.999 x 10 ⁶) cpm	5.2 % of reading	Ludlum model 500 pulser
	(0.001 to 2500) V	1.4 % of reading	Multimeter
Pulsers –			
Pulse Count	(1 to 9.999 x 10 ⁶) cpm	0.46 % of reading	Precision counter
Pulse Duration	0.1 μs to 0.5s	0.85 % of reading	Oscilloscope
Reference Voltage/Pulse Amplitude	(0.001 to 2500) V	1.2 % of reading	Multimeter

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¹ This laboratory offers commercial calibration service through the service laboratory, and also provides calibration services to their own newly manufactured equipment through the new instrument laboratory.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of k = 2. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

LUDLUM MEASUREMENTS INC.

Sweetwater, TX

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 2nd day of October 2024.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 4084.01

Valid to September 30, 2026