



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Radiation Safety & Control Services, Inc.
93 Ledge Road
Seabrook, NH 03874

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 19 September 2024

Certificate Number: AC-2079



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Radiation Safety & Control Services, Inc.

93 Ledge Road

Seabrook, NH 03874

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CALIBRATION

Valid to: **September 19, 2024**

Certificate Number: **AC-2079**

Ionizing Radiation

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Ionizing Radiation Dose Rate, Exposure Rate	(100 μ to 1.6) R/hr (100 μ to 1.6) rem/hr 1 μ Sv/hr to 16 mSv/hr	6 % of reading	Cs-137 Beam Source ANSI N323AB-2013 ANSI N322-1997
Integrated Dose and Integrated Exposure ⁺	Up to 16 R, 16 rem or 160 mSv	6 % of reading	
Ionizing Radiation Dose Rate, Exposure Rate	(1 m to 20 k) R/hr (1 m to 20 k) rem/hr (10 μ to 200) Sv/hr	2.7 % of reading	Cs-137 Box Source ANSI N323AB-2013 ANSI N322-1997
Integrated Dose and Integrated Exposure ⁺	Up to 200 kR, 200 krem or 2 kSv	2.7 % of reading	
Ionizing Radiation Dose Rate ⁺	(6 to 120) mrem/hr	9.2 % of reading	Plutonium-Beryllium Source, HAWK TEPC ANSI N323AB-2013, ICRP 26
Ionizing Radiation Dose Rate ⁺	(7 to 200) mrem/hr	9.4 % of reading	Plutonium-Beryllium Source, HAWK TEPC ANSI N323AB-2013, ICRP 60
Dose Rate, Exposure Rate	10 μ R/hr to 10 R/hr	3.4 % of reading	Ludlum Model 500 Pulsing Station
Count Rate Instruments	(1 to 9.99 x 10 ⁶) cpm	3.4 % of reading	Ludlum Model 500 Pulsing Station
Alpha detection efficiencies	(2.2 to 5.9 x 10 ⁴) dpm	10 % of reading	Alpha Standard Source
Beta detection efficiencies	(2.8 to 4.4 x 10 ⁵) dpm	10 % of reading	Beta Standard Source

Ionizing Radiation

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Gamma detection efficiencies	(4.4 x 10 ³ to 1.7 x 10 ⁶) dpm	10 % of reading	Gamma Standard Source
Radiation protection — Sealed radioactive sources — Leakage test Alpha Sources Beta Sources	(1e ⁻⁶ to 1) μCi	25 % of Leak Value 44 % of Leak Value	Tennelec LB5100 Low Background Alpha/Beta Counting System

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2079.



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