



SOLAR TESTING LABORATORIES, INC.

1125 Valley Belt Road
Brooklyn Heights, OH 44131

Phone 216-741-7007

Fax 216-741-7011

www.stloho.com

U.S. NRC Region III
2443 Warrenville Road
Suite 210
Lisle, Illinois 60532-4352

Please find attached form 314.

We would like to cancel our NRC License (34-16119-04) effective 9/30/16.

We will continue our operations under our Ohio Department of Health License (31210180065)

No material is being disposed of at this time.

Thank you,

David Snethkamp
Solar Testing Laboratories
Radiation Safety Officer
216-741-7007
dds@stloho.com

RECEIVED SEP 28 2016



CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

Solar Testing Laboratories
1125 Valley Belt Road
Brooklyn Heights, OH 44131

LICENSE NUMBER

34-16119-04

DOCKET NUMBER

030-35130

LICENSE EXPIRATION DATE

November 30, 2019

A. LICENSE STATUS (Check the appropriate box)

- ☐ This license has expired. ☒ This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- ☐ 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
☒ 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
☒ a. Transfer of radioactive materials to the licensee listed below:

Solar Testing Laboratories ODH License 31210180065

- ☐ b. Disposal of radioactive materials:

☐ 1. Directly by the licensee:

☐ 2. By licensed disposal site:

☐ 3. By waste contractor:

- ☐ c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

- ☐ 1. A radiation survey was conducted by the licensee. The survey confirms:
☐ a. the absence of licensed radioactive materials
☐ b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
☐ 2. A copy of the radiation survey results:
☐ a. is attached; or ☐ b. is not attached (Provide explanation); or ☐ c. was forwarded to NRC on: _____ Date _____
☒ 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
☒ a. The results of the latest leak test are attached; and/or ☐ b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
David Snethkamp	Radiation Safety Officer	216-741-7007	dds@stloho.com

Mail all future correspondence regarding this license to:

Solar Testing Laboratories 1125 Valley Belt Road Brooklyn Heights, OH 44131

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
David Snethkamp, RSO		9/21/16

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

OHIO DEPARTMENT OF HEALTH
LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. Solar Testing Laboratories, Inc.	3. 31210180065
2. 1125 Valley Belt Road Brooklyn Heights, Ohio 44131	EXPIRATION DATE
	4. August 1, 2018
	FILE NUMBER – ID NUMBER
	5. 500795-6170

- | | | |
|-------------------------|-------------------------------------|--|
| 6. RADIOACTIVE MATERIAL | 7. CHEMICAL AND/OR
PHYSICAL FORM | 8. MAXIMUM QUANTITY THAT LICENSEE MAY
POSSESS AT ANY ONE TIME UNDER THIS LICENSE |
| A. Cesium-137 | A. Sealed sources | A. No single source to exceed 407 MBq (11 mCi), total possession not to exceed 11.8 GBq (319 mCi) |
| B. Americium-241:Be | B. Sealed sources | B. No single source to exceed 1.63 GBq (44 mCi), total possession not to exceed 48.1 GBq (1.3 Ci) |
| C. Americium-241:Be | C. Sealed sources | C. No single source to exceed 11.1 GBq (300 mCi), total possession not to exceed 44.4 GBq (1.2 Ci) |

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9. Authorized Use
- A. and B. (29 gauges) To be used in Humboldt Model 5001 portable gauge for measuring physical properties of materials.
- C. (4 gauges) To be used in Troxler 3241 series gauge for measuring physical properties of materials.
-

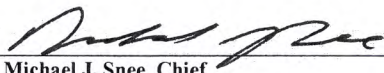
CONDITIONS

10. Licensed material may only be used at the licensee's facilities located at:
- A. 1125 Valley Belt Road, Brooklyn Heights, OH 44131
- B. Licensed material may used at temporary jobsites anywhere in the state of Ohio.
11. The Radiation Safety Officer for this license is: David D. Snethkamp
12. Licensed material shall be used by, or under the supervision of David Snethkamp; or individuals who have completed training described in the renewal application dated August 20, 2013 and have been approved in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as authorized users for five years following the last use of license material by the individual.
13. All sealed sources that are used or obtained shall have been evaluated or approved under the provisions of OAC 3701:1-46-49, or equivalent NRC or Agreement State regulations.
14. Sealed sources shall be tested for leakage and/or contamination in accordance with rule OAC 3701:1-38-24.
15. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. The licensee shall conduct a physical inventory every 6 months, or at another interval approved by the Director, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for at least 3 years from the date of each inventory, and shall include the quantities and kinds of licensed material manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
17. Each portable nuclear gauge must be secured with a minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal, whenever portable gauges are not under the control and constant surveillance of the licensee, in accordance with OAC 3701:1-40-16(H). The gauge or its container must be locked when in transport, storage, or when not under direct surveillance of an authorized user.

OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIALS SUPPLEMENTARY SHEET	Page 2 of 2
	License Number: 31210180065
	File Number – ID Number: 500795-6170
	Amendment No. 10

18. When performing tests at temporary job sites, the authorized user shall not leave the portable gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
19. Any cleaning, maintenance, or repair of the gauge(s) that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer, David Snethkamp, Solar Testing employees trained by the manufacturer, or other persons specifically licensed by the Director, the NRC or an Agreement State to perform such services.
20. The licensee is authorized to transport licensed material only in accordance with OAC 3701:1-50.
21. In addition to the possession limits in item 8, the licensee shall further restrict the possession of sealed source licensed materials to quantities below the minimum limit specified in OAC 3701:1-40-17 for establishing decommissioning financial assurance.
22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. *Renewal application dated August 20, 2013 and correspondence dated September 17, 2013. Amendment 10 renews license number 31210180065 in its entirety.*

For the Ohio Department of Health

DATE: 9/26/13 BY: 
 Michael J. Snee, Chief
 Bureau of Radiation Protection
 on behalf of the Director of Health

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

This document should be retained by the owner of this device as it contains information pertaining to the radioactive sources, license number and date of LEAK TEST

Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 165

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5071GF	NJ00164
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	85	0
Removable Activity (uCi):	2.58E-05	0.00E+00
Measurement Date:	09/13/2013	09/13/2013
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

Humboldt Scientific, Inc.
2525 Atlantic Ave, Raleigh NC 27604, USA
Tel: (919)832-6509, Fax: (919)833-5283
License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Device Identification:

Make: Humboldt Model: H5001EZ Serial No: 168

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5089GF	NJ00167
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	92	0
Removable Activity (uCi):	1.63E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Make: Humboldt Model: H5001 Serial No: 190

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5833GF	NJ00189
Leak Test Date:	08/25/2016	08/25/2016

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	93	0
Removable Activity (uCi):	1.50E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Make: Humboldt Model: H5001EZ Serial No: 191

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5840GF	NJ00190
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

<u>Result of Exam Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	86	1
Removable Activity (uCi):	2.45E-05	1.60E-06
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Serial No: 192

Device Identification:

Make: Humboldt

Model: H5001

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5842GF	NJ00191
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

<u>Result of Each Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	103	0
Removable Activity (uCi):	1.36E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001 Serial No: 194

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5844GF	NJ00193
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

<u>Result of 2009-2010</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	79	0
Removable Activity (uCi):	3.40E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001 Serial No: 203

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	4216GA	NJ01176
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

<u>Result of Lead Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	90	0
Removable Activity (uCi):	1.90E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001 Serial No: 410

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	8241GF	NJ00373
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	89	0
Removable Activity (uCi):	2.04E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001B Serial No: 440

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	8311GF	NJ00403
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

<u>Result of Leak Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	99	0
Removable Activity (uCi):	6.80E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

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Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001 Serial No: 449

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	8420GF	NJ00415
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

<u>Result of Lean Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	91	0
Removable Activity (uCi):	1.77E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

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Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001B Serial No: 492

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	6947GF	NJ01407
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

<u>Result of Beta Count</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	92	1
Removable Activity (uCi):	1.63E-05	1.60E-06
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
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Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001 Serial No: 493

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	6948GH	NJ01410
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

<u>Result of Beam Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	86	0
Removable Activity (uCi):	2.45E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

Humboldt Scientific, Inc.
2525 Atlantic Ave, Raleigh NC 27604, USA
Tel: (919)832-6509, Fax: (919)833-5283
License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

This document should be retained by the owner of this device as it contains information pertaining to the radioactive sources, license number and date of LEAK TEST

Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/24/2016

Device Identification:

Make: Troxler Model: T3241 Serial No: 686

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:		5518044
Leak Test Date:	08/24/2016	08/24/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	110	0
Removable Activity (uCi):	8.16E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001B Serial No: 749

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	0893GQ	NJ01921
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	105	0
Removable Activity (uCi):	1.36E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC. LEAK TEST CERTIFICATE

This document should be retained by the owner of this device as it contains information pertaining to the radioactive sources, license number and date of LEAK TEST

Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001EZ Serial No: 750

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	0388GQ	NJ01809
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

<u>Result of 20min Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	88	1
Removable Activity (uCi):	2.18E-05	1.60E-06
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 756

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	2913GQ	NJ02134
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	107	0
Removable Activity (uCi):	4.08E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001EZ Serial No: 757

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	2914GQ	NJ02135
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

<u>Result of Lead Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	104	0
Removable Activity (uCi):	0.00E+00	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001 Serial No: 758

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	2916GQ	NJ02136
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

<u>Result of Lead Test:</u>	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	108	0
Removable Activity (uCi):	5.44E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Device Identification:

Make: Humboldt Model: H5001B Serial No: 759

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	2917GQ	NJ02137
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	101	0
Removable Activity (uCi):	4.08E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 760

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	2919GQ	NJ02138
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	84	1
Removable Activity (uCi):	2.72E-05	1.60E-06
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 862

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	1208GH	NJ00839
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	91	0
Removable Activity (uCi):	1.77E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/24/2016

Device Identification:

Make: Troxler Model: T3241 Serial No: 1183

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:		558411
Leak Test Date:	08/24/2016	08/24/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	71	0
Removable Activity (uCi):	4.49E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/24/2016

Device Identification:

Make: Troxler Model: T3241 Serial No: 1190

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:		558457
Leak Test Date:	08/24/2016	08/24/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	112	0
Removable Activity (uCi):	1.09E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/24/2016

Device Identification:

Make: Troxler Model: T3241 Serial No: 1193

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:		558457
Leak Test Date:	08/24/2016	08/24/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	98	0
Removable Activity (uCi):	8.16E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001C Serial No: 1583

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	8943GH	NJ01623
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	100	0
Removable Activity (uCi):	5.44E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 2465

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5174GQ	NJ02603
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	96	0
Removable Activity (uCi):	1.09E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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LEAK TEST CERTIFICATE

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 2466

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	5181GQ	NJ02604
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	104	0
Removable Activity (uCi):	0.00E+00	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/26/2016

Device Identification:

Make: Humboldt Model: H5001 Serial No: 2602

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	6141GQ	NJ02762
Leak Test Date:	08/26/2016	08/26/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	86	0
Removable Activity (uCi):	2.45E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

This document should be retained by the owner of this device as it contains information pertaining to the radioactive sources, license number and date of LEAK TEST

Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Make: Humboldt Model: H5001 Serial No: 2603

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	6143GQ	NJ02763
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	91	0
Removable Activity (uCi):	1.77E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

Humboldt Scientific, Inc.
2525 Atlantic Ave, Raleigh NC 27604, USA
Tel: (919)832-6509, Fax: (919)833-5283
License: NC092-750-1

HUMBOLDT SCIENTIFIC, INC.

LEAK TEST CERTIFICATE

This document should be retained by the owner of this device as it contains information pertaining to the radioactive sources, license number and date of LEAK TEST

Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Sampler's Identification:

Device Identification:

Make: Humboldt Model: H5001EZ Serial No: 8824

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	6694CZ	230-15
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	103	0
Removable Activity (uCi):	1.36E-06	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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Licensee's Identification:

Contact Name: D. Snethkamp
Company Name: Solar Testing Labs
Address: 1125 Valley Belt Rd
Brooklyn Heights , OH 44131 USA

Sampler's Identification:

Tel: (216)741-7007
License No: 31210180065
Sampling Date: 08/25/2016

Device Identification:

Make: Humboldt Model: H5001EZ Serial No: 8825

Sealed Source Identification:

	Source(1)	Source(2)
Radioisotope:	Cs-137	Am-241:Be
Serial No:	6695CZ	231-15
Leak Test Date:	08/25/2016	08/25/2016

Result of Leak Test:

	BETA/GAMMA	ALPHA
Calibration Date:	09/09/2016	09/09/2016
Calibration Constant (pCi/cpm):	1.36	1.6
Background Measurement (cpm):	104	0
Sample Measurement (cpm):	86	0
Removable Activity (uCi):	2.45E-05	0.00E+00
Measurement Date:	09/13/2016	09/13/2016
Measured By:	A. JACKSON	

Regulations require that sources with removable activities greater than 0.005 (5.0E-03) uCi (185Bq) be removed from service for repair and decontamination or disposal. Authorities must be notified.

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License: NC092-750-1

Solar Testing
1125 Valley Belt Rd
Brooklyn Hts OH
44131



FIRST CLASS

US NRC Region III
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Suite 120
Lisle Illinois

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Attn Materials Licensing

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