







TEST REPORT	
Drop testing from 1 meter	
Report reference No.	: G1102016
Date of issue	: February 3, 2011
Testing laboratory	: Global Testing Laboratories, LLC
Address	: 3029 Gov. John Sevier Hwy
Testing location	: Same
Applicant	: ICx Radiation, Inc.
Address	: 100 Midland Road Oak Ridge, TN 37830 USA
Model	N/A
Serial #	N/A
Product description	Handheld radiation detector
Standard.....	: Customer specified drop testing
Ratings	N/A
Test Report Form No.	: N/A
Procedure deviation	: N/A
Non-standard test method	: Drop testing from 1 meter
Number of pages (Report)	: 8
Number of pages (Attachments).....	: N/A
Compiled by: <u>Jeff Grahl</u>	Approved by: <u>Roger Williams</u>
(+ Signature) 	(+ Signature) 

Drop testing from 1 meter

Test Description

The unit under test was dropped from a height of 1 meter on all six sides of the unit using a drop test machine. The unit's drop orientation is described by the side of the unit that was in contact with the drop test machine. The customer's requirements were that the low-level source inside of the unit was contained.

Test Results

The unit was dropped from a height of 1 meter on to its front, back, right side, left side, top, and bottom. The unit showed no visible signs of damage, and the source was contained within the unit.

Please see attached photos.







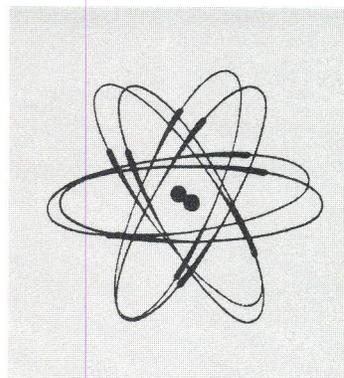






ATOMIC ENERGY INDUSTRIAL LABORATORIES

OF THE SOUTHWEST



9261 KIRBY DRIVE
HOUSTON, TEXAS 77054-2520

(713) 790-9719
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Facsimile: (713) 790-0542
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STEVEN H. ALLEN
President

Acct# 08957
PO#

ICX Radiation, Inc.
Attn: Steven Read
100 Midland Road
Oak Ridge, TN 37830

CERTIFICATE OF LEAK TESTS

This is to certify that the encapsulated source identified below was leak tested on February 24, 2011, and was found to contain less than 0.005 microcurie of removable contamination on the sealed source. This amount is within the limit acceptable by the U.S. Nuclear Regulatory Commission and Agreement States.

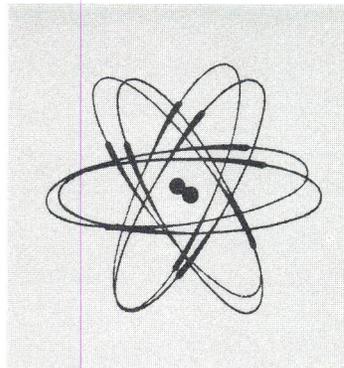
IDENTIFICATION OF SEALED SOURCES

Isotope	Serial Number	Source Number	Amount of Source	Removable Contamination (μCi)
Cs-137	idF		15 nCi	0.0000

Date: March 10, 2011

Signed: 
Steven H. Allen, President

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IDENTIFICATION OF SEALED SOURCES

Isotope	Serial Number	Source Number	Amount of Source	Removable Contamination (μCi)
Cs-137	Rad Hunter 01		3 nCi	0.0000

Date: February 8, 2011

Signed: 
Steven H. Allen, President

**General Manager/
Geschäftsführer**
Juergen Stein

Exec. Assistant-GmbH
Verena Bergmann-Mundt

FINANCE

Accounting Manager
Jim Pritz

5

RESEARCH & DEVELOPMENT

Director of Engineering
Ralf Lentering

Research
Gunttram Pausch

6

IT
(Ralf Lentering)

1

Engr Support
(Ralf Lentering)

Projects—1
Graphic Design—1
Documentation—1

Product Development
(Ralf Lentering)

Firmware—3
Software—9
Hardware—6
Mechanical—3

GENERAL MANAGEMENT

VP of Radiation Detection
Barry Stanner

SALES/MARKETING

Director of Sales
Kevin Buxton

2—Tech sales Support Engr
1—Sales & Mktg Coordinator

International Sales Manager
Siegfried Krueger

3—Sales Engineers
1—Sales & Mktg Coordinator

OPERATIONS

Director of Operations
Paul Bowlus

Manufacturing Manager—Inc.
Nick Kurowski

5

Manufacturing Manager—GmbH
Samir Al-Ghazal

24

Quality Assurance (ISO Mgmt Rep)
Rick Wilson

Customer Support Mgr
Steven Read

4

Materials Mgr
Denise van Amstel

4

Detector Development Mgr
Jason Smith

3

Detector Physicist
Martin Ohmes
Physics Engineer
Dr. C. Plettner
Physics Engineer
Falko Scherwinski

HUMAN RESOURCES

HR Manager /Exec.Asst.
Karen Lavender

1

Health & Safety
Paul Bowlus
RSO
Steven Read
**DOT/IATA Hazmat Control/
Export Compliance**
L. Denise van Amstel
ISO Mgmt Rep.
Rick Wilson
**Government Contracts
Consultant**
Greg Wortman



Organizational Chart

March 2011



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER ICX RADIATION, INC ORDER NO. 20160962

Mfg. Ludlum Measurements, Inc. Model 19 Serial No. 265219

Mfg. _____ Model _____ Serial No. _____

Cal. Date 10-Sep-10 Cal Due Date 10-Sep-11 Cal. Interval 1 Year Meterface 202-1070

Check mark applies to applicable instr. and/or detector IAW mfg. spec. T. 71 °F RH 44 % Alt 698.8 mm Hg

New Instrument Instrument Received Within Toler. +-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. (Min. Volt) 2.2 VDC

Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 550 V Input Sens. 28 mV Det. Oper. _____ V at _____ mV Threshold Dial Ratio _____ = _____ mV

HV Readout (2 points) Ref./Inst. 5 / 517 V Ref./Inst. 10 / 997 V

COMMENTS:

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

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
5000	4000 µR/hr		4000
5000	1000 µR/hr		1000
500	400 µR/hr = <u>75900cpm</u>		400
500	100 µR/hr		100
250	200 µR/hr = <u>37500cpm</u>		200
250	100 µR/hr		100
50	<u>7590</u> cpm		40
50	<u>1890</u> cpm		10
25	<u>3750</u> cpm		20
25	<u>940</u> cpm		5

*Uncertainty within ± 10% C.F. within ± 20% 50, 25 Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout			Log Scale		

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. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: 73410 1131 781 059 280 60646 70897
Cs-137 Gamma S/N 1162 G112 M565 5105 T1008 T879 E552 E551 720 734 1616 Neutron Am-241 Be S/N T-304
 Alpha S/N _____ Beta S/N _____ Other _____
 m 500 S/N 235943 Oscilloscope S/N _____ Multimeter S/N 92780438

Calibrated By: Diana Mayo Date 10 Sept 10
Reviewed By: Diana Mayo Date 10 Sep 10

AC Inst. Passed Dielectric (Hi-Pot) and Continuity Test
Only Failed: _____