

LOCKHEED MARTIN**Missiles and Fire Control****World Wide Lantirn Depot**

P.O. Box 2348

Warner Robins, GA 31099-2348

FACSIMILE HEADERDATE: 10-06-2008 REF: _____TO: Steven CourtemancheTEL: 610-337-5269 FAX: 610-337-5075FROM: James D. Kincaid FAX: (478) 328-1001

TEL: (478) 328-0025

This document consists of 12 Pages, including this page.**SUBJECT:** _____

LOCKHEED MARTIN
World Wide LANTIRN Depot
P.O. Box 2348
Warner Robins, GA 31099-2348

October 6, 2008

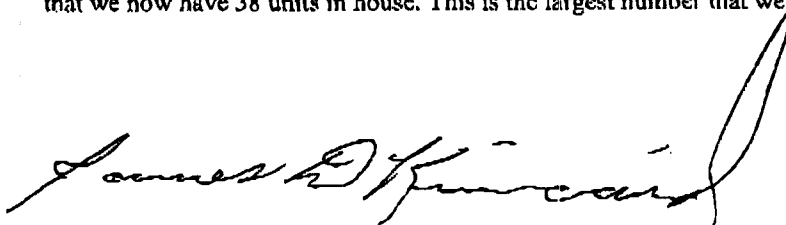
Steven:

This letter is the follow up to our phone conversation of Thursday October 2, 2008.

Attached are copies of the latest calibration reports for our radiation meters. These meters are calibrated annually.

Attached is a copy of the latest inventory that we performed on 9-25-2008. We perform an inventory annually.

Since our last inventory we have received several more units. I did another inventory today which shows that we now have 38 units in house. This is the largest number that we have had to date.



James D. (Doc) Kincaid

LOCKHEED MARTIN 
World Wide LANTIRN Depot
Staff Field Engineer
Radiation Safety Officer
Phone: 478-328-0082
Fax: 478-328-1001
E-mail: jim.d.kincaid@lmco.com

LASER INVENTORY
9-25-2008

PART NUMBER	SERIAL NUMBER	SOURCE #1	SOURCE #2	LOCATION
60510990-49	10633	1709	1717	LAB CABINET
60510990-49	50128	573	587	LAB CABINET
60510990-49	10207	1035	1036	LAB CABINET
60510990-49	10579	1565	1599	LAB CABINET
60510990-49	10569	1539	1540	LAB CABINET
60510990-49	50182	913	923	SUPPLY CABINET
60510990-49	10096	814	815	SUPPLY CABINET
60510990-49	10654	1729	1741	SUPPLY CABINET
60510990-59	10620	1653	1654	LAB CABINET
60510990-59	10763	2186	2192	LAB CABINET
60510990-59	10854	2088	2112	LAB CABINET
60510990-59	10773	2191	2208	LAB CABINET
60510990-59	10732	1939	1955	LAB CABINET
60510990-59	10445	421	423	LAB CABINET
60510990-59	20012	3045	3046	LAB CABINET
60510990-59	20024	3073	3075	LAB CABINET
60510990-59	10646	1694	1719	LAB CABINET
60510990-59	10788	2128	2147	LAB CABINET
60510990-59	10821	2138	2141	LAB CABINET
60510990-59	10777	2138	2141	LAB CABINET
60510990-59	20005	3020	3029	LAB CABINET
60510990-59	10838	2098	2102	LAB CABINET
60510990-59	10617	1647	1648	SUPPLY CABINET
60510990-59	10837	2111	2124	SUPPLY CABINET
60510990-59	10617	1647	1648	SUPPLY CABINET
60510990-59	10837	2111	2124	SUPPLY CABINET
77424015-003	10041	4016	4017	SUPPLY CABINET
77424015-003	10122	4079	4081	SUPPLY CABINET

LASER INVENTORY
10-06-2008

PART NUMBER	SERIAL NUMBER	SOURCE #1	SOURCE #2	LOCATION
60510990-49	50128	573	587	LAB CABINET
60510990-49	10207	1035	1036	LAB CABINET
60510990-49	10579	1565	1599	LAB CABINET
60510990-49	10633	1709	1717	LAB CABINET
60510990-49	10569	1539	1540	LAB CABINET
60510990-49	50105	383	384	LAB CABINET
60510990-49	10454	441	442	LAB CABINET
60510990-49	10043	593	594	LAB CABINET
60510990-49	50182	913	923	SUPPLY CABINET
60510990-49	10654	1729	1741	SUPPLY CABINET
60510990-49	10096	814	815	SUPPLY CABINET
60510990-59	10773	2191	2208	LAB CABINET
60510990-59	20024	3073	3075	LAB CABINET
60510990-59	10854	2088	2112	LAB CABINET
60510990-59	10763	2186	2192	LAB CABINET
60510990-59	10832	2062	2076	LAB CABINET
60510990-59	10561	1527	1528	LAB CABINET
60510990-59	20016	3056	3057	LAB CABINET
60510990-59	10732	1939	1955	LAB CABINET
60510990-59	10445	421	423	LAB CABINET
60510990-59	10646	1694	1719	LAB CABINET
60510990-59	20012	3045	3046	LAB CABINET
60510990-59	20005	3020	3029	LAB CABINET
60510990-59	10838	2098	2102	LAB CABINET
60510990-59	10777	2138	2141	LAB CABINET
60510990-59	10821	2138	2141	LAB CABINET
60510990-59	10821	2051	2052	LAB CABINET
60510990-59	10620	1653	1654	LAB CABINET
60510990-59	10788	2128	2147	LAB CABINET
60510990-59	10857	2085	2119	LAB CABINET
60510990-59	10761	2187	2179	LAB CABINET
60510990-59	10834	2067	2103	SUPPLY CABINET
60510990-59	10837	2111	2124	SUPPLY CABINET
60510990-59	10692	1844	1866	SUPPLY CABINET
60510990-59	20021	2222	3034	SUPPLY CABINET
60510990-59	10617	1647	1648	SUPPLY CABINET
60510990-59	10859	2118	2125	SUPPLY CABINET
77424015-003	10041	4016	4017	SUPPLY CABINET

10/05/2008 19:24

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Instruments

CERTIFICATE OF CALIBRATION

 POST OFFICE BOX 810 PM. 325-235-5474
 501 OAK STREET FAX NO. 325-235-4672
 SWEETWATER, TEXAS 79556, U.S.A.
CUSTOMER LOCKHEED MARTIN WARNER ROBINSORDER NO. 20107060/324618Mfg. Ludlum Measurements, Inc. Model 3Serial No. 96543Mfg. Ludlum Measurements, Inc. Model 43-2Serial No. PR093524Cal. Date 22-Apr-08 Cal Due Date 22-Apr-09 Cal. Interval 1 Year Meterface 202-002Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 73 °F RH 54 % Alt 696.8 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☒ P/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 14.9 rev 12/05/89.☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.Instrument Volt Set 600 V Input Sens. 34 mV Det. Oper. 600 V at 34 mV Threshold mV☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS:

Time 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*
X 100	400kcpm	4K	4K
X 100	100kcpm	4	4
X 10	40kcpm	4	4
X 10	10kcpm	4	4
X 1	4kcpm	4	4
X 1	1kcpm	4	4
X 0.1	400cpm	4	4
X 0.1	100cpm	4	4

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

All Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
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 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. Calibration system conforms to the requirements of ANSI/NCCL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LC-1963

Reference Instruments and/or Sources: ☐ S-394/1122 ☐ 1131 ☐ 791 ☐ 059 ☐ 28037 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304Alpha S/N ☐ Beta S/N ☐ Other ☐m 500 S/N 63893 ☐ Oscilloscope S/N ☐ Multimeter S/N 80040300Calibrated By: Jeramy Thompson Date 22-Apr-08Reviewed By: Rhonda Hain Date 22-Apr-08
 Certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
 v C22A 01/29/2008

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



Scientific and Industrial
Instruments

501 OAK STREET FAX NO. 325-205-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-2 Serial No. PA093524

Customer LOCKHEED MARTIN WARNER ROBINS

Order #, 20107060/324618

Counter 3 Serial No. 96543

Counter Input Sensitivity 34 mV

Count Time 6mDistance Source to Detector Surface

Other

[illegible]

Signature Jeremy Thompson

Date 22-Apr-07

10/05/2008 19:24

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Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

 POST OFFICE BOX 810 PH. 325-235-5494
 501 OAK STREET FAX NO. 325-235-4672
 SWEETWATER, TEXAS 79556, U.S.A.
CUSTOMER LOCKHEED MARTING WARNER ROBINSORDER NO. 20114494/328828Mfg. Ludlum Measurements, Inc. Model 3Serial No. 95628Mfg. Ludlum Measurements, Inc. Model 43-2Serial No. P093525Cal. Date 15-Aug-08Cal Due Date 15-Aug-09Cal. Interval 1 Year Meterface 202-002Check mark ☒ applies to applicable Instr. and/or detector IAW mfg. spec. T. 73 °F RH 43 % Alt 698.8 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. (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 650 V Input Sens. 37 mV Def. Oper. 650 V at 37 mV Threshold Dial Ratio = mV☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS:

SP020032

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*
X 100	400kcpm	4K	4K
X 100	100kcpm	1K	1K
X 10	40kcpm	4K	4K
X 10	10kcpm	1K	1K
X 1	4kcpm	4K	4K
X 1	1kcpm	1K	1K
X 0.1	400cpm	4K	4K
X 0.1	100cpm	1K	1K

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

All Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Initial 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
 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.
 Calibration system conforms to the requirements of ANSI/NCSS 2540-1-1994 and ANSI N323-1978

State of Texas Calibration License No. LC-1963

Reference Instruments and/or Sources:

☐ S-394/1122 ☐ 1131 ☐ 781 ☐ 059 ☐ 280

 137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ S105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304
☒ Alpha S/N Pu239#5283☐ Beta S/N☐ Other☒ m 500 S/N 238275☐ Oscilloscope S/N☒ Multimeter S/N 83750210Calibrated By: James K. M. B.Date 15-AUG-08Viewed By: Donnie MickasDate 15-Aug-08
 Certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
 3M C22A 01/29/2008

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



Scientific and Industrial
Instruments

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

Bench Test Data For Detector

Detector 43-2 Serial No. PR093525

Customer LOCKHEED MARTING WARNER ROBINS

Order #. 20114494/328828

Counter 3 Serial No. 95628

Counter Input Sensitivity 37 mV

Count Time 6 PM Distance Source to Detector Surface

Other _____

High Voltage Background Isotope Pu239 Isotope _____ Isotope _____ Isotope _____
Size 24641.12 dpm Size _____ Size _____ Size _____

[illegible]

Signature James H. McElroy

Date **15-APR-08**



Designer and Manufacturer
of
Scientific and Industrial
Instruments

Work Order: 20114494

LUDLUM MEASUREMENTS, INC

POST OFFICE BOX 810 PH: 325-235-5484

TAG #: 328828

501 OAK STREET FAX: 325-235-4672

SWEETWATER, TEXAS 79556, U.S.A.

Date Received: 8/12/2008

Received Via: FEDEX SAVER

Condition Received: GOOD

SHIP TO:

LOCKHEED MARTIN WARNER ROBINS
WORLD WIDE LANTIRN DEPOT
BLDG 640 DRX 19 PAGE RD
ROBINS AFB, GA 31098-11
US

BILL TO:

LOCKHEED MARTIN WARNER ROBINS
WORLD WIDE LANTIRN DEPOT
PO BOX 2348
WARNER ROBINS GA 31099-23
US

CUSTOMER #: 14295

Reason for Return: Calibration

Cal Interval / Special Instructions: 1YR

Comments: Cal'd

ITEM	QTY	PART #	DESCRIPTION	PRICE	COST	ITEM	QTY	PART #	DESCRIPTION	PRICE	COST
01	1.00 EA	3	M 3 FOR REPAIR/CAL *95628			1 2		21-9313	D Battery	N/C	
02	1.00 EA	43-2	M 43-2 FOR REPAIR/CAL *PR093525								
03	1.00 EA	C	C CABLE								

Instrument Calibrated: 1 at 6000

Total Parts Cost:

Sub Total Calibration, Parts, and Labor: 6000

Secondary Detectors: at

Total Calibration Charge: 6000

Shipping Charges:

Needed Calibration: at

Total Labor:

Sales Tax:

hour(s) at \$ per hour

Total Charges:

By: James K. Mikes

Date: 15-AUG-08

Released: Donnie Mikes

Date: 15 Aug 08

DO NOT PAY!
INVOICE TO FOLLOW

8/15/08

Contacted: PHIL HUFFMAN

By:

Number: GB6492

Return Ship

Phone #:

478-926-1110

10/05/2008 19:24 4783287261

SNIPER WWD

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COUNTRY: KILL4494

PACKING LIST FROM:

SHIP VIA:

US AIRCRAFT

MUDMAN MEASUREMENTS INC

SHIP DATE:

501 CAN ST PO BOX 210

08/18/08

SHERIDAN TEXAS USA 75556

LAW COST. #1

TEL: 425-235-5494

14295

COST PO #: 686932

SHIP TO:

LOCKHEED MARTIN WARNER ROBINS

WORLD WIDE LOGISTICS GROUP

Bldg 640 DOW 12 BASE RD

ROBINS AFB, GA 31004 2638

US

Ordered By:

BILL HUFFMAN

PHONE NUMBER:

478-226-1110

BOX# / # OF BOXES:

BOX LB	QTY	QTY	PART NO.	DESCRIPTION	ADDITIONAL INFO
01	1.00 EA	1.00 EA 3		M 3 FOR REPAIR/CAL	510915622
02	1.00 EA	1.00 EA 43-2		M 43-2 FOR REPAIR/CAL	PR0913525
03	1.00 EA	1.00 EA C		10" CABLE	✓
04	2.00 EA	2.00 EA 71-9010		BATTERY-BORACHING "D"	✓
05	1.00 EA	1.00 EA 722		STANDARD CALIBRATION	✓

COMMENTS:

FRIEDENSAVER

GOOD

1 JR

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 LOCKHEED MARTIN

ORDER NO. 20108786/325623

Mfg. Ludlum Measurements, Inc.

Model

2200

Serial No.

139735

Mfg. Ludlum Measurements, Inc.

Model

43-10-1

Serial No.

PR145492

Cal. Date 20-May-08

Cal Due Date

20-May-09

Cal. Interval

1 Year

Meterface

202-020

Check mark ☒ Applies to applicable Instr. and/or detector IAW mfg. spec.

T.

73 °F

RH

30 %

Alt

693.8 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. (Min. Volt) 4.4 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 Comments V Input Sens. 35 mV Det. Oper. Comments V at 35 mV Threshold Dial Ratio 1.0 = 10 mV

☒ HV Readout (2 points)

Ref./Inst.

500

/ 500

V Ref./Inst.

2000

/ 2008

V

COMMENTS:

HV: PU-239 600V

HV DIAL: 1.96

HV TC-99 1000V

HV DIAL: 3.40

INSTRUMENT CURRENTLY SETUP FOR 1000v

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*
X 1k	400kcpm	400	400
X 1k	100kcpm	100	100
X 100	40kcpm	400	400
X 100	10kcpm	100	100
X 10	4kcpm	400	400
X 10	1kcpm	100	100
X 1	400cpm	400	400
X 1	100cpm	100	100

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout	400kcpm	40103	Log Scale		
	40kcpm	4009			
	4kcpm	402			
	400cpm	40			
	40cpm	4			

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. This calibration system conforms to the requirements of ANSI/NCCL Z540-1-1994 and ANSI N323-1978.

State of Texas Calibration License No. LO-10683

Reference Instruments and/or Sources:

☐ S-394/1122 ☐ 1131 ☐ 781 ☐ 059 ☐ 280☐ S-137 Gamma S/N ☐ 1182 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T870 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304☒ Alpha S/N PU-239 #2928 12.6Kcpm ☒ Beta S/N TC-99 #5296 20,700cpm ☐ Other☒ m 500 S/N 54683☐ Oscilloscope S/N☒ Multimeter S/N 70602489

Calibrated By:

Duane Jackson

Date

20-May-08

Reviewed By:

Rhonda Ham

Date

21-May-08



of
Scientific and Industrial
Instruments

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

Bench Test Data For Detector

Detector 43-10-1 Serial No. PR 145492

Customer LOCKHEED MARTIN

Order #. 20108786/325623

Counter 2200 Serial No. 139735

Counter Input Sensitivity 35 mV

Count Time 1 min Bq 6sec source

Distance Source to Detector Tray

Other

[illegible]

Signature

Date 20-MAY-08