

OFFICIAL RECORD COPY

## MATERIALS LICENSE

Amendment No. 04

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material 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 regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated May 6, 1996	
1. Lockheed Martin Missiles and Space P.O. Box 246		3. License Number	09-23013-02
2. Cape Canaveral, FL 32920		is amended in its entirety to read as follows:	
		4. Expiration Date	January 31, 2004 (extended)
		5. Docket or Reference No.	030-30597
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Any Byproduct Material	A. Sealed sources	A. Not to exceed 10 millicuries per source	
B. Hydrogen 3	B. Sealed sources and/or foil sources	B. Not to exceed 160 millicuries per source	
C. Americium 241	C. Sealed neutron source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	C. Not to exceed 90 millicuries per source	
9. Authorized Use:			
A, B and C. For research and development, calibration and testing of instruments or re-entry vehicles and associated components.			

## CONDITIONS

10. Licensed material shall be used only at locations subject to federal jurisdiction, on the NASA Kennedy Space Center, the USAF Eastern Test Range, and Cape Canaveral Air Force Station, Florida
11. Radiation Safety Officer: Mr. Raymond G. Olson and in his absence, Richard L. Swartz.
12. Licensed material shall be used by, or under the supervision of, Raymond G. Olson.
13. Sealed sources containing licensed material shall not be opened by the licensee.

9611040247 961016  
PDR ADOCK 03030597  
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ML 20

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number 09-23013-02

Docket or Reference Number 00-30597

Amendment No. 04

(continued)

## CONDITIONS

14. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210 or equivalent Agreement State Regulation.
- B. Notwithstanding paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources or detector cells need not be leak tested if:
- (i) they contain only hydrogen 3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage and are not being used. However, upon removal from storage for use or transfer they shall be tested. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U. S. Nuclear Regulatory Commission, Region II, Division of Radiation Safety and Safeguards, Nuclear Material Inspection Section, 101 Marietta Street, Suite 2900, Atlanta, Georgia 30323. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- G. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee shall maintain records of information important to safe and effective decommissioning at the licensee's address specified in Item 2 pursuant to the provisions of 10 CFR 30.35(g), 40.36(f) and/or 70.25(g) until this license is terminated by the Commission.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number 09-23013-02

Docket or Reference Number 09-30597

Amendment No. 04

(continued)

**CONDITIONS**

16. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35, 40.36 and/or 70.25 for establishing decommissioning financial assurance.
17. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under this license. Records of inventories shall be maintained for 2 years from the date of each inventory.
18. This license does not authorize the launch of licensed material.
19. 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 Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated June 1, 1993 [Renewal]
- B. Letter dated November 22, 1993 [Transmittal]
- C. Letter dated May 6, 1996 [Change of ownership & address, and extension of expiration license date in accordance with 30.36]
- D. Letter dated July 1, 1996 [Additional information re: Change of ownership]
- E. Letter dated September 4, 1996 [Additional information re: Change of ownership]
- F. Letter dated October 2, 1996 [Clarifies that source added is Gammatron Model ANHP]
- G. Facsimile dated October 10, 1996 [Additional information re: leak test and storage of source]

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

JAY L. HENSON

Date

OCT 16 1996

By

*Jay L. Henson*

Region II, Division of Nuclear Materials Safety  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323

Ray Olson  
Lockheed Martin Missiles & Space  
PO Box 246 (O/88-50 Hgr. Z), Cape Canaveral, FL 32920-0246



407/853-9777



407/853-7780

LOCKHEED MARTIN  
MISSILES & SPACE



Date: 10/10/96

Total # of pages including cover sheet: 1

To: Orysia Bailey

Recipient Fax: 404/381-5559

**Subject: NRC License 09-23013-02**

Per you phone request this AM:

Leak testing of the T563 Neutron Check Source will be performed by EG&G personnel at Cape Canaveral Air Station. EG&G is the local health physics contractor to NASA and the USAF at this facility. They will monitor the sealed container to assure a level of less than 0.005 microcuries is present.

The T563 Neutron Check Source will be stored in MACA building AP, which is also the secured storage area for USN FBM test reentry systems. This building is accessed only by personnel authorized by the DOD/USN on a need-to-know basis.

Please advise if this does not answer your concerns.

Ray Olson

LMMS Radiation Safety @ ER

Lockheed Martin Missiles & Space  
Sunnyvale, California 94089-3504

**LOCKHEED MARTIN** 

United States Nuclear Regulatory Commission  
Region II  
Material Radiation Protection Section  
101 Marietta Street, NW  
Suite 2900  
Atlanta, GA 30323

2 October 1996  
47-20/092

Attn: Ms. Orysia Bailey

SUBJECT: Additional Information for Amendments to By-Product  
Material Licenses No. SUB-1502. (Mail Control No. 257085,  
Docket No. 040-08944) and 09-23013-02 (Mail Control No.  
257075, Docket No. 030-30597)

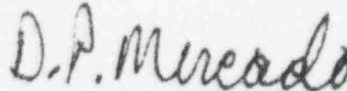
Ms. Bailey,

Per our telephone conversation this morning, the Am-241 sources being  
added to the subject licenses are the same type. I hope this  
information addresses your concerns.

Written correspondence concerning this license should be directed to:

Donald P. Mercado  
O/47-20, B/101  
Lockheed Martin Missiles & Space  
1111 Lockheed Way  
Sunnyvale, CA 94089

If any additional information is required or any clarification is  
needed, please contact me at (408) 742-0759.



D.P. Mercado  
Radiation Safety Officer

Post-it® Fax Note	7671	Date	# of pages
To	Orysia Bailey	From	Don Mercado
Co./Dept		Co.	
Phone #		Phone #	
Fax #	404-331-5559	Fax #	

LOCKHEED MARTIN 

United States Nuclear Regulatory Commission  
Region II  
Material Radiation Protection Section  
101 Marietta Street, NW  
Suite 2900  
Atlanta, GA 30323

4 September 1996  
47-20/090

Attn: Mr. Jose Diaz Velez

SUBJECT: Application for Amendment of By-Product Material License  
No. 09-23013-02. (Mail control No. 257075, Docket No.  
030-30597)

ENCLOSURES: 1) Answers to your questions dated July 29, 1996.

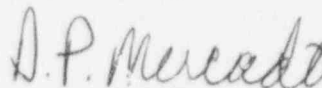
Mr. Diaz,

Attached are the subject answers to your request for more information concerning our amendment application. I hope you find them satisfactory.

Written correspondence concerning this license should be directed to:

Donald P. Mercado  
O/47-20, B/101  
Lockheed Martin Missiles & Space  
1111 Lockheed Way  
Sunnyvale, CA 94089

If any additional information is required or any clarification is needed, please contact me at (408) 742-0759.



D.P. Mercado  
Radiation Safety Officer



1. The manufacturer, model number, and Sealed Source & Device Registry number (if available) of the proposed Am-Li neutron source.

That information is not available.

2. Specify whether the facility NACA AP exists, or is under construction, or is planned for future construction.

The facility is currently in existence.

3. Please modify the MACA AP floor diagram to include all restricted areas (as defined in 10 CFR 20.1003), show all adjacent areas, including above and below restricted areas.

Because of the exposure characteristics of the source, there are no restricted areas.

4. 10 CFR 20.1801 requires that licensed material be secured against unauthorized removal from the place of storage. 10 CFR 20.1802 requires that the licensee control and maintain constant surveillance over materials in unrestricted areas that are not in storage. In your letters dated May 6, 1996 and July 1, 1996, you did not indicate how you will secure licensed material in the MACA AP building. Describe how you will preclude the unauthorized removal of licensed material from the place of storage and in unrestricted areas.

The facility is used to store and service some of the nations most critical national defense assets. It is guarded 24 hrs a day by heavily armed guards. Nothing and no one goes in or out without proper authorization.

5. Submit a recent leak test performed on the sealed sources within the facility, including sources in storage that will require to be tested for leakage if they were in use.

No sources are in use in the facility that require leak testing.

6. Submit a certification indicating that previously owned sources (if any) had not been found leaking in the facility.

There are no sources in the facility that require leak testing.

7. Specify the neutron radiation detection instruments that you have available. Include the manufacturer and model number of instruments available, the range and units, and the intended use (monitoring, surveying, assaying or measuring).

2 Eberline PNR-4 Neutron detection instruments, with a range from 0-5K mrem/hr, and 2 Eberline PAC-4S alpha detection instruments, with a range of 0-2 million cpm will be available for surveying.

8. 10 CFR 20.1502 states the minimum levels (10 % of the applicable limit) which requires occupational dose monitoring. If the dose to be received by your radiation workers under normal operations, including use of the additional neutron sources, is determined to be within the 10 % of the limits, dose monitoring is not mandatory. If you do not intend to monitor your radiation workers, please provide your basis for such decision (included any surveys and calculations associated with them). Otherwise, please specify the type of personnel dosimetry you will provide (including monitoring or neutrons doses) and the frequency for changing the dosimeters, and confirm that the dosimetry will be NVLAP-accredited processor as required by 10 CFR 20.1501(c). Also describe your policy and procedures for issuing/using personnel dosimetry, including radiation workers authorized to use and manipulate neutron sources, and other radiation workers with access to restricted areas (as defined in 10 CFR 20.1003).

No dosimetry will be used. Attachment 1 contains the calculations which shows that they are not necessary.



## Sandia National Laboratories

Albuquerque, New Mexico 87185

Date: March 13, 1990

To: R. S. Case, Jr., 7263

*M. J. McDonald*

From: M. J. McDonald, 3431

Subject: Dose Calculations for AmLi Neutron Source

The Americium/Lithium neutron source, #C466, was counted with the TSA-470 instrument and the ESP-2 Neutron Radiation Detector. The count rate was 210 c/m and 4.5 c/m, respectively. These instruments are not calibrated to give a dose rate for the energy of the neutrons from this source, 0.4 Mev.

The dose rate was calculated empirically using a dose conversion factor of 12 n/cm<sup>2</sup>-s per mRem/h. This dose factor was furnished by SNL Health Physics Instrumentation group and is applicable to 0.4 MeV. The dose rate was calculated to be 0.2 mRem/h at a distance of 10 cm from the source, 0.002 mRem/h at a distance of 1 meter, based on a neutron flux of 3,000 n/s stated on the source. The dose rate drops off as a factor of 1/r<sup>2</sup>, with 'r' being the distance from the source.

Also, I have located a small lead-lined storage container for the source. The container can be locked with a padlock if desired.

MJM:3431:bjh

Copy to:  
3431 J. Kaiser

REC-2 29 1996

Lockheed Martin Missiles & Space  
Attn: Don P. Mercado  
Radiation Safety officer  
O/47-20, B/101  
1111 Lockheed Way  
P.O. Box 3504  
Sunnyvale, CA 94088-3504

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ABOUT A MATERIALS LICENSE  
AMENDMENT (MAIL CONTROL NO. 257075, DOCKET NO. 030-30597)

Dear Mr. Mercado:

I have reviewed your amendment request dated May 6, 1996, including additional information provided on your letter dated July 1, 1996. Because you added new items to your amendment request, the following information is needed by this office to continue the review of your amendment request. Please provide the following additional information and/or clarification:

1. The manufacturer, model number, and Sealed Source & Device Registry number (if available) of the proposed Am-Li neutron source.
2. Specify whether the facility MACA AP exists, or is under construction, or is planned for future construction.
3. Please modify the MACA AP floor diagram to include all restricted areas (as defined in 10 CFR 20.1003), show all adjacent areas, including above and below restricted areas.
4. 10 CFR 20.1801 requires that licensed material be secured against unauthorized removal from the place of storage. 10 CFR 20.1802 requires that the licensee control and maintain constant surveillance over materials in unrestricted areas that are not in storage. In your letters dated May 6, 1996 and July 1, 1996, you did not indicate how you will secure licensed material in the MACA AP building. Describe how you will preclude the unauthorized removal of licensed material from the place of storage and in unrestricted areas.
5. Submit a recent leak test performed on the sealed sources within the facility, including sources in storage that will require to be tested for leakage if they were in use<sup>1</sup>.
6. Submit a certification indicating that previously owned sources (if any) had not been found leaking in the facility<sup>1</sup>.

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<sup>1</sup> The items 5 and 6 of this letter will help the NRC to reach a conclusion regarding the proper decommissioning of your facility (MACA AH) since it appears that you only possessed sealed sources.

7. Specify the neutron radiation detection instruments that you have available. Include the manufacturer and model number of instruments available, the range and units, and the intended use (monitoring, surveying, assaying or measuring).
8. 10 CFR 20.1502 states the minimum levels (10 % of the applicable limit) which requires occupational dose monitoring. If the dose to be received by your radiation workers under normal operations, including use of the additional neutron sources, is determined to be within the 10 % of the limits, dose monitoring is not mandatory. If you do not intend to monitor your radiation workers, please provide your basis for such decision (include any surveys and calculations associated with them). Otherwise, please specify the type of personnel dosimetry you will provide (including monitoring of neutrons doses) and the frequency for changing the dosimeters, and confirm that the dosimetry will be a NVLAP-accredited processor as required by 10 CFR 20.1501(c). Also describe your policy and procedures for issuing/using personnel dosimetry, including radiation workers authorized to use and manipulate neutron sources, and other radiation workers with access to restricted areas (as defined in 10 CFR 20.1003).

If you wish to pursue your amendment request, please either contact me by phone or provide your reply within 30 days of receipt of this letter. If additional time to respond to this letter is needed, please request it in writing and state the reason for requesting the extension. When responding, please refer to Mail Control No. 257075 and provide two copies of your reply.

If you have questions about this letter, please call me at 404/331-7438 (FAX: 404-331-7437).

Sincerely,

José M. Díaz Vélez  
Materials License Reviewer  
Division of Nuclear Materials Safety

SEND TO PUBLIC DOCUMENT ROOM?		<input checked="" type="radio"/> YES		<input type="radio"/> NO	
OFFICE	RII:DNMS	RII:DNMS	RII:DNMS	RII:DNMS	RII:DNMS
SIGNATURE					
NAME	J. Díaz Vélez	J. Henson	J. Potter		
DATE	07 / 29 / 96	07 / 29 / 96	07 / 29 / 96	07 / / 96	07 / / 96
COPY?	YES <input checked="" type="radio"/> NO <input type="radio"/>	YES <input type="radio"/> NO <input checked="" type="radio"/>	YES <input checked="" type="radio"/> NO <input type="radio"/>	YES <input type="radio"/> NO <input type="radio"/>	YES <input type="radio"/> NO <input type="radio"/>

LOCKHEED MARTIN 

United States Nuclear Regulatory Commission  
Region II  
Material Radiation Protection Section  
101 Marietta Street, NW  
Suite 2900  
Atlanta, GA 30323

29 May 1996  
47-20/080

SUBJECT: Application for Amendment of By-Product Material License  
No. SUB-1502.

ENCLOSURES: 1) LMSC Drawing of the locations of use and storage  
2) Radioactive Material License amendment fee in the  
amount of \$290.00

Gentlemen:

Lockheed Missiles & Space Company, Inc., requests that radioactive  
material license No. SUB-1502 be amended to include the following  
materials:

<u>Isotope</u>	<u>Form</u>	<u>Maximum Amount</u>
Am-241	Sealed source Gammatron model AN-HP	3 sources of 90 mCi each

USE:

AX-0303-S-102U

For instrument check sources for neutron detection equipment.

USE LOCATION:

The use and storage locations are designated on the attached drawings  
(EHW1, EHW2, and RBC).

The source is a commercially produced Am/Li neutron source for  
checking the function of instruments used to survey Nuclear  
Explosive-Like Assemblies (NELA).

Written correspondence concerning this license should be directed to:

Donald P. Mercado  
O/47-20, B/101  
Lockheed Missiles & Space Co., Inc  
1111 Lockheed Way  
Sunnyvale, CA 94089

If any additional information is required or any clarification needs,  
please contact me at (408) 742-0759.

*D.P. Mercado* 257085

D.P. Mercado  
Radiation Safety Officer

LOCKHEED MARTIN



United States Nuclear Regulatory Commission  
101 Marietta Street, N.W.  
Suite 2900  
Atlanta, GA 30323

July 1, 1996  
47-20/081

Attn: Jose Diaz:

Subject: Amendment Request for Lockheed Missiles & Space Co.,  
Inc. (LMSC) Byproduct Materials License No. 09-23013-01  
(Control Number 257075)

Enclosure: Information Needed For Change of Ownership Application  
Resume of Richard L. Swartz  
Map of Building MACA AP  
Amendment Fee

Dear Mr. Diaz,

We are requesting that the subject license be amended to include the following:

1. Change the licensee's name to Lockheed Martin Missiles & Space (Change of Ownership information enclosed)
2. Add an Am-Li neutron source, not to exceed 90 mCi, as a survey instrument check source
3. Add Richard L. Swartz as Alternate Radiation Safety Officer (resume enclosed)
4. Change Authorized Use Locations by removing MACA AH (no longer used here) and add MACA AP (map enclosed)

Thank you for your cooperation. If you have any questions, please call me at (408) 742-0759.

*D.P. Mercado*

D.P. Mercado  
Radiation Safety Officer  
Lockheed Martin Missiles & Space  
O/47-20, B/101  
1111 Lockheed Way  
Sunnyvale, CA

Attachments

cc: Ray Olson                      85-60/H01

## INFORMATION NEEDED FOR CHANGE OF OWNERSHIP APPLICATION

The applicant should provide the following information concerning changes of ownership or control by the applicant (transferor and/or transferee, as appropriate):

1. The new name of the licensed organization. If there is no change, the licensee should so state.

Lockheed Martin Missiles & Space

2. The new licensee contact and telephone number(s) to facilitate communications.

No change.

3. Any changes in personnel having control over licensed activities (e.g., officers of a corporation) and any changes in personnel named in the license such as radiation safety officer, authorized users, or any other persons identified in previous license applications as responsible for radiation safety or use of licensed material. The licensee should include information concerning the qualifications, training and responsibilities of new individuals.

Remove all references to Steve Souza and Leon Mercado. Alternate Radiation Safety Officer should be Richard L. Swartz, Jr. His qualifications and training information are attached.

4. An indication of whether the transferor will remain in non-licensed business without the license.

This is a corporate name change only.

5. A complete, clear description of the transaction, including any transfer of stocks or assets, mergers, etc., so that legal counsel is able, when necessary, to differentiate between name changes and changes of ownership.

On the 29th of January 1996, LMSC a wholly owned subsidiary of Lockheed Martin Corp., ceased to exist, and all assets were transferred to Lockheed Martin Corporation. LMSC became a division of Lockheed Martin Corp., which is named Lockheed Martin Missiles and Space (LMMS).

6. A complete description of any planned changes in organization, location, facility, equipment, or procedures (i.e., changes in operating or emergency procedures).

No change.

7. A detailed description of any changes in the use, possession, location or storage of the licensed materials.

No change.

8. Any changes in organization, location, facilities, equipment, procedures, or personnel that would require a license amendment even without the change or ownership.

Add Richard L. Swartz, Jr. As Alternate Radiation Safety Officer.



9. An indication of whether all surveillance items and records (e.g., calibrations, leak tests, surveys, inventories, and accountability requirements) will be current at the time of transfer. A description of the status of all surveillance requirements and records should also be provided.

No change.

10. Confirmation that all records concerning the safe and effective decommissioning of the facility, pursuant to 10 CFR 30.35(g), 40.36(f), 70.25(g), and 72.30(d): public dose; and waste disposal by release to sewers, incineration, radioactive material spills, and on-site burials, have been transferred to the new licensee, if licensed activities will continue at the same location, or to the NRC for license termination's.

No change.

11. A description of the status of the facility. Specifically, the presence or absence of contamination should be documented. If contamination is present, will decontamination occur before transfer? If not, does the successor company agree to assume full liability for the decontamination of the facility or site?

No change. Corporate name change only.

12. A description of any decontamination plans, including financial assurance arrangements of the transferee, as specified in 10 CFR 30.35, 40.36, and 70.25. This should include information about how the transferee and transferor propose to divide the transferor's assets, and responsibility for any cleanup needed at the time of transfer.

No change.

13. Confirmation that the transferee agrees to abide by all commitments and representations previously made to NRC by the transferor. These include, but are not limited to: maintaining decommissioning records required by 10 CFR 30.35(g); implementing decontamination activities and decommissioning of the site; and completing corrective actions for open inspection items and enforcement actions.

See item 5.

With regard to contamination of facilities and equipment, the transferee should confirm, in writing, that it accepts full liability for the site, and should provide evidence of adequate resources to fund decommissioning; or the transferor should provide a commitment to decontaminate the facility before change of control or ownership.

See item 5.

With regard to open inspection items, etc., the transferee should confirm, in writing, that it accepts full responsibility for open inspection items and/or any resulting enforcement actions; or the transferee proposed alternative measures for meeting the requirements; or the transferor provides a commitment to close out all such actions with NRC before license transfer.

N/A. No open items.

14. Documentation that the transferor and transferee agree to the change in ownership or control of the licensed material and activity, and the conditions of transfer; and the transferee is made aware of all open inspection items and its responsibility for possible resulting enforcement actions.

See item 5.

15. A commitment by the transferee to abide by all constraints, conditions, requirements, representations, and commitments identified in the existing license. If not, the transferee must provide a description of its program, to ensure compliance with the license and regulations.

See item 5.

# QUALIFICATION FOR FACILITY ASSISTANT RADIATION SAFETY OFFICER

## RICHARD L. SWARTZ, JR.

Bachelor of Science in Mechanical Engineering from the University of South Carolina, 1969

Master of Science in Aeronautical Science from Embry-Riddle Aeronautical University, 1988

Aug 1995: Completed five day technical course in Radiation Safety taught by Nevada Technical Associates, Henderson, Nevada. Course consisted of 36 hours of classroom instruction covering the following topics:

- Atomic structure
- Nuclear stability
- Radiation terms and units
- Types of emissions
- Laws of radioactive decay
- Radiation detection and monitoring
- Shielding
- Somatic and genetic effects
- Emergency procedures
- Federal and state regulations
- Licensing procedures
- Packaging, labeling, and transportation
- Radiation surveys
- Inventory and waste management

1992-present

Lockheed Martin Missiles and Space  
Eastern Range Facility  
Cape Canaveral Air Station, Florida

Assist in movement control, compliance inspection, and inventory of facility radioactive sources: Ni-63, Cs-137, H-3, and depleted U-238. Assist in the conduct of background radiation checks of facility locations and shipping containers. Verify proper radiation measurement of reentry bodies used in missile test operations.

1989-1992

Lockheed Missiles and Space Company  
Polaris Missile Facility Atlantic  
Charleston, South Carolina

As a Systems Test Engineer, initiated and coordinated engineering support for the inspection, repair, and test of Trident I missile termination firing units containing Ni-63 sources.

1978-1983

United States Air Force  
Torrejon Air Base, Spain  
Moody Air Force Base, Valdosta, Georgia

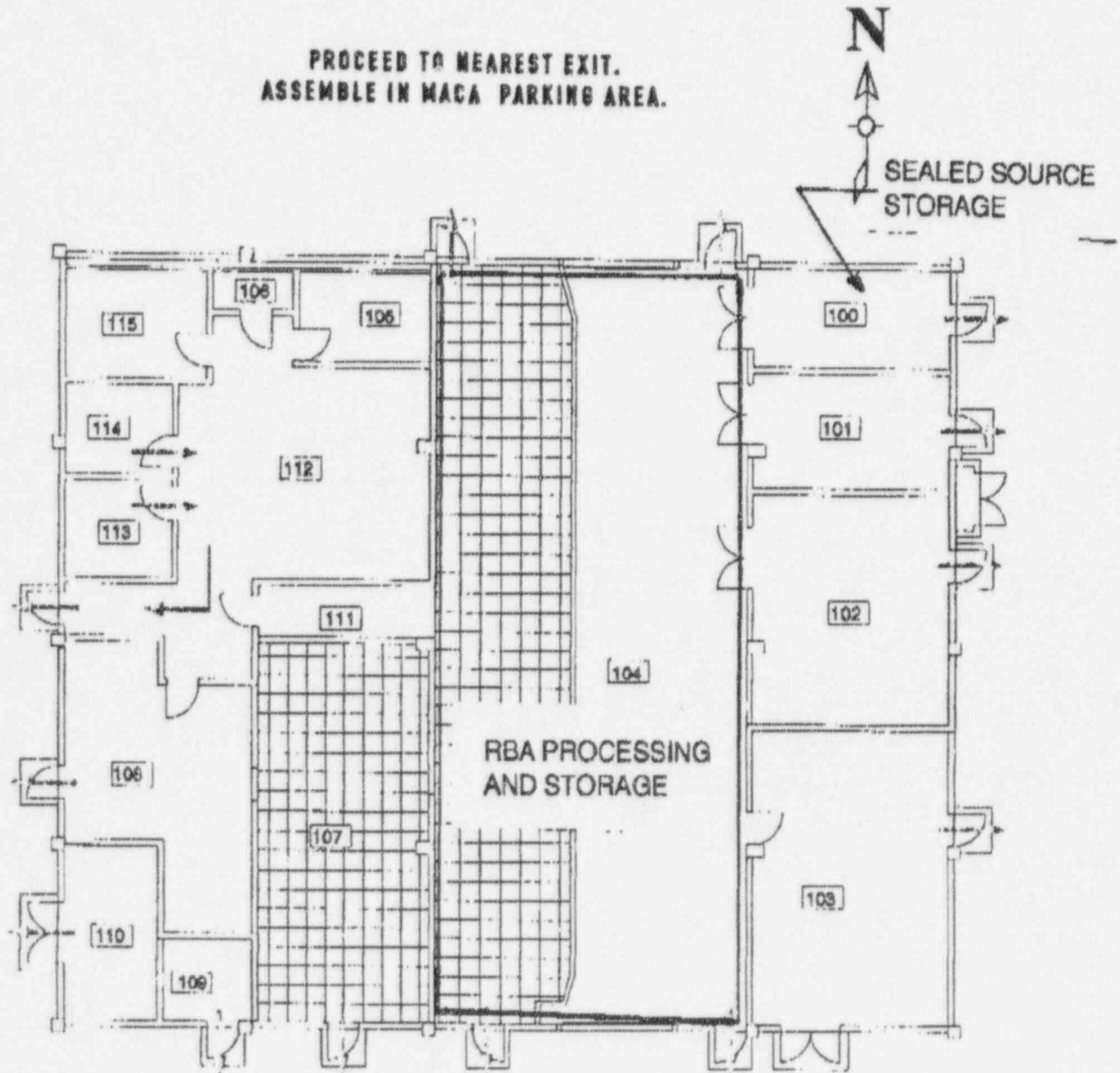
As an F-4 Tactical Fighter Squadron Weapons Officer, instructed fighter aircrews in the operation, function, hazards, and delivery of B58 and B61 nuclear weapons.

As a member of a Wing level board, certified aircrews in nuclear weapons delivery.

# MACA BUILDING AP

## EMERGENCY EVACUATION PLAN

PROCEED TO NEAREST EXIT.  
ASSEMBLE IN MACA PARKING AREA.



# CONVERSATION RECORD

TIME

DATE

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☐ OUTGOING

## ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

SUBJECT

SUMMARY

10/2/96

Spoke to D.P. Mercado 408 742-0759, asked if American 241 source is the same for both license amendments - SUB 1502 & 09-23013-02. He advised they were sent for - they are both Examination model AN HP TX-0303-S-102U.

10/10/96

Spoke to Ray Olson - RSO for Cape Canaveral Lockheed. Asked to specify that sources are secured when seen only to authorized personnel & to describe how they will be state tested.

10/10/96 Spoke to Olson, Advised him that the June 1, 1993

ACTION REQUIRED

application stated that the facility was using procedures over

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

ACTION TAKEN

SIGNATURE

TITLE

DATE

from previous application. He stated that he  
would review the procedures to ensure that  
they were current and applicable.



# **USNRC fax**

TRANSMITTAL

---

**to:** Raymond Olson  
**fax #:** (407) 853-7780  
**re:** Change of ownership  
**date:** May 29, 1996  
**pages:** 4, including this cover sheet.

This is in reference to your letter dated May 6, 1996, in which you require license amendments for NRC licenses 09-23013-02 and SMB-1567. Please answer the following questions for both licenses. On your reply, please refer to Control Numbers 257075 (for License No. 09-23013-02) and 257079 (for SMB-1567)

From the desk of...

José M. Díaz Vélez  
Radiation Specialist  
U.S. Nuclear Regulatory Commission  
101 Marietta St., NW, Suite 2900  
Atlanta, GA 30323-0199

1-800-577-8510  
Fax: (404) 331-7437

# DIVISION OF ACCOUNTING AND FINANCE REQUEST FOR REFUND TO EMPLOYEE/VENDOR

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY  
COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: \_\_\_\_\_

NAME: Lockheed Martin Missiles & Space Co. Inc.

ADDRESS: Attn: Ray B. Olson

ADDRESS: P. O. Box 246

CITY: Cape Canaveral STATE: FL ZIP: 32920

TRANS CODE: PX

TRANS TYPE: FE FUND: X5280 JOB CODE: \_\_\_\_\_ AMOUNT: \$400.00

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: \_\_\_\_\_

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: \_\_\_\_\_

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: \_\_\_\_\_

TOTAL REFUND AMOUNT: \$400.00

COMMENTS: Overpaid Amel Fee Lic 09-23013-02

CK 189416

(limit comments to 40 characters, including spaces)

PREPARED BY: Rita Messier DATE: 8/1/96

AUTHORIZED BY: Andrea Kimberly DATE: 8/1/96

ORIGINAL INV. NO: \_\_\_\_\_ DATE PAID: \_\_\_\_\_ AMOUNT: \_\_\_\_\_

REFUND ENTERED INTO COLLECT BY: \_\_\_\_\_

REFUND DETERMINED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

\$400 for 2C  
SMB-1567  
paid with  
CK #163739  
dated 7/2/96

3M  
AA905 AND  
may 4 II  
CK #189416  
dated 6/21/96  
624990

## LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH  
DIVISION OF ACCOUNTING AND FINANCE  
OFFICE OF THE CONTROLLER  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001LOCKHEED MARTIN MISSILES AND SPACE  
ATTN: RAY G. OLSON  
LMMS/ER RADIATION SAFETY OFFICER  
P. O. BOX 246  
CAPE CANAVERAL, FL 32920

## TYPE OF ACTION

- ☐ NEW LICENSE  
☐ RENEWAL OF LICENSE  
☒ AMENDMENT TO LICENSE

REQUESTED DATE

5-6-96

LICENSE NUMBER

09-23013-02 AND SMB-1567

CONTROL NUMBER

257075 &amp; 257079 ATTN: RITA MESSIER T9E10

## I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3M	\$	\$	\$ 590.00
2C	\$	\$	\$ 400.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	990.00
PAYMENT RECEIVED	\$	
AMOUNT DUE	\$	990.00

☒ Your request was received without the prescribed application fee.☐ We received your Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. Payment of the additional fee noted above is required.☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

## II. FEE NOT REQUIRED

☐ Enclosed is Check No. \_\_\_\_\_ which accompanied your request. The fee is not required because:☐ We received your Check No. \_\_\_\_\_ in payment of the fee.☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated 7/11/96, Control No. \_\_\_\_\_.☐ Your request was combined, prior to review, with your \_\_\_\_\_ request, Control No. \_\_\_\_\_.

## III. CHECK RETURNED

☐ Enclosed is Check No. \_\_\_\_\_ which was returned to us by the bank for:

- ☐ INSUFFICIENT FUNDS  
☐ ACCOUNT CLOSED  
☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

## IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. \_\_\_\_\_, Amendment No. \_\_\_\_\_, issued on \_\_\_\_\_ was issued without the required fee being collected. The fee required is noted in Section I of this form.☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

SIGNATURE - LICENSE FEE ANALYST

RITA MESSIER

LFDCB

REMessier

6/5/96

LFDCB

Distribution ☒  
Pending Fee File OC/DAE/FF (LF-3 2 7)  
I, FARB R/F (2) Region ☒

DATE

6-5-96

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: (FOR LFMS USE)  
: INFORMATION FROM LTS  
: -----  
:  
: Program Code: 03620  
: Status Code: 0  
: Fee Category: 3M  
: Exp. Date: 20040131  
: Fee Comments: \_\_\_\_\_  
: Decom Fin Assur Req'd: N  
: ::::::::::::::::::::::::::::::

1996 MAY 30 PM 3:30

LICENSE FEE TRANSMITTAL

A. REGION II

1. APPLICATION ATTACHED

Applicant/Licensee: LOCKHEED MISSILES & SPACE CO., INC.  
Received Date: 960508  
Docket No: 3030597  
Control No.: 257075  
License No.: 09-23013-02  
Action Type: Amendment

2. FEE ATTACHED

Amount: NONE  
Check No.: \_\_\_\_\_

3. COMMENTS

Signed *Quinn Stearns*  
Date 5/24/96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)

1. Fee Category and Amount: 3M \$590

2. Correct Fee Paid, Application may be processed for:

Amendment ☒  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_

Signed *Rita Messier*  
Date 8/1/96

Name Change	
Log	<u>May 4 II</u>
Remitter	_____
Check No.	<u>189416</u>
Amount	<u>\$990</u> ( <u>\$400 Refunded</u> )
Fee Category	<u>3M</u>
Type of Fee	<u>Amend</u>
Date Check Rec'd.	<u>7/31/96</u>
Date Completed	<u>8/1/96</u>
By:	<u><i>Kerr</i></u>

LOCKHEED MARTIN



## MEMO

TO: Diane Heime    NRC Licensing    Atlanta Ga.    DATE 5/6/96

FROM: RAY OLSON    ORG 85-60    BLDG Z    FAC. CCAS    EXT. 407/853-9777

SUBJ: Address Correction on NRC Licenses: 09-23013-02 & SMB-1567

Proper address information for both licenses should be:

Lockheed Martin Missiles and Space

P. O. Box 246

Cape Canaveral, FL 32920

This is consistent with proper mailing address and incorporates our new corporate identity since the merger of the Lockheed and Martin companies. All other functions described in the licenses remain unchanged.

Ray G. Olson

LMMS/ER Radiation Safety Officer

257075