

Lockheed Martin Commercial Space Systems Newtown
License Amendment
NRC# 37-02006-09
November 25, 2003

LOCKHEED MARTIN

Q-5

November 25, 2003

Ms. Elizabeth Ullrich
Nuclear Materials Safety Branch
US Nuclear Regulatory Commission: Region 1
476 Allendale Road
King of Prussia, PA 19406-1415

Subject: License Amendment
Reference: License No. 37-02006-09

03012894

Dear Ms. Ullrich,

Please find enclosed the Lockheed Martin Commercial Space Systems Application For Material License Form 313 with attachments and application fee. The amendment is requested to add Uranium Oxide – not to exceed 250 lbs of source material to the existing license number 37-02006-09.

Should you have any questions or comments regarding this matter, please do not hesitate to contact me at (215) 497 – 1307.

Sincerely,



Clare V. LumKong
ESH Manager,
LMCSS – Newtown

Cc: C. Krisch (w/o attachments)
S. Peck (w/o attachments)
S. Bean
S. Porter
File

2003 NOV 26 AM 9:55

134060

NRC FORM 313
(10-2002)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this mandatory collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

SAM NUNN ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II
61 FORSYTH STREET, S.W., SUITE 23T85
ATLANTA, GEORGIA 30303-8931

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA,
OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR
WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

03012894

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
 B. AMENDMENT TO LICENSE NUMBER 37-02006-09
 C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Lockheed Martin Corporation
CPC
100 Campus Drive
NEwtown, Pa., 18940

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Lockheed Martin - Valley Forge
Space and Strategic Missiles
230 Mall Boulevard
King of Prussia, Pa., 19406

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Sydney W. Porter, Jr., C.H.P. Radiation Safety Officer

TELEPHONE NUMBER

(610) 896-5353

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY	1D	AMOUNT ENCLOSED	\$ 1,500.00
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13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

Stephen Beck for Charles Krusch

SIGNATURE

Stephen Beck for Charles Krusch

DATE

25 Nov 03

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	



This memo will complete the application for amendment to NRC material license # 37-02006-09. As requested on The Application for Material License items 5 – 11 are provided below.

- 5) a. Depleted Uranium (~U-238)
 - b. Uranium Oxide
 - c. Not to exceed 250 lbs of source material
- 6) Warhead Electrical System (W 87 Firing Set and the Interconnect Unit). This source material is an integral part of these systems. Although parts of these systems are to be replaced, the source material will not need to be worked on, manipulated, wiped or otherwise disturbed. There will be no source material waste generated from these replacement procedures. (refer to enclosed memo from Sandia Laboratories)
- 7) Sydney W. Porter, Jr., C.H.P.; Radiation Safety Officer
- 8) As per existing License #37-02006-09. Individuals working on Warhead Electrical Systems will be given a 1-hour indoctrination concerning source material and the necessity of not disturbing it.
- 9) As per existing License # 37-02006-09
- 10) As per existing License # 37-02006-09
- 11) As per existing License # 37-02006-09

For questions or concerns regarding this information, please contact Scott D. Bean at 610.354.1918.

Thank you

**Sandia National Laboratories**Operated for the U.S. Department of Energy by
Sandia Corporation**Cheryl Lari**
W87 Systems EngineeringP.O. Box 969
Livermore, CA 94551-096
Phone: (925)294-1323
Fax: (925)294-1221
Internet: calari@sandia.gov

November 14, 2003

Dan Vacek
SERV Chief Engineer
Lockheed Martin Space and Strategic Missiles
Valley Forge, PA

Dan,

Subject: WTH-8202 Test Unit Changes and Safety Information

The Sandia W87 Systems Engineering team will change out some of the Sandia hardware currently in the WTH-8202 Mk 21 Mod3 RV Simulator. This test asset is owned by LLNL, and we have their concurrence to change out some of the Sandia components that make up the Warhead Electrical System prior to the start of the SERV RV and Attachment Kit Delta-Qualification Test. We are installing functional parts of known quality, suitable for qualification testing. This letter describes the work to be done, the type of parts that will be installed, and the hazards expected as part of this disassembly/assembly operation.

The parts to be installed are the W87 Firing Set and the Interconnect Unit. Both components are sealed electrical assemblies, containing no power sources, and containing no hazards beyond the typical electrical parts materials (e.g., solder). From a materials and hazards standpoint, these two parts are equal replacements to what is currently in WTH-8202 unit.

With the unit in the test stand we will remove the forward section of the RV to access the parts to be removed. In removing the SNL parts we will expose the interior of the unit, this exposing the LLNL materials within this volume. We will not need to work on, manipulate, wipe at, or otherwise disturb the materials within the interior volume. We will then install the new parts.

If time permits, we may also want to re-tighten the screws that secure the mock nuclear package. This would entail removing the Rear Cover, then the removing the Aft Bulkhead to expose the screws. At this point the interior of the unit would again be exposed. As before, we would not need to work on or disturb other material within this volume. The screws would be retightened, and the other two parts replaced. This work would also be done in the assembly stand.

All work will be performed by a trained and experienced Sandia technician, using procedures written by one of our W87 systems engineers. While low level radioactive material will be exposed, there are no hazardous operations that will be done, and no radioactive or hazardous waste will be generated.

The dynamic performance of the RV should not change with these replacement parts in the assembly. The parts now in WTH-8202 are in fact real components, but of a lesser quality. The replacement Firing

- 2 -

November 14, 2003

Set and Interconnect Unit are functional parts of known good quality, and we plan to verify that they still meet performance specifications when the SERV Delta-Qual. testing is complete.

If you require more information, I can be contacted at 925-294-1323 or calari@sandia.gov.



Cheryl Lari
W87 Lead Systems Engineer

Copies to:

SNL/CA	R. E. Oetken, MS9013
LLNL	S. Taylor, L-125
LLNL	B. Jorgensen, L-125
NNSA	W. J. Baca, NA-122.4
NNSA	J. Pape, NA-122.4

This is to acknowledge the receipt of your letter/application dated

11/25/2003, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 37-02006-09
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 134060.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

: (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 :
 : Program Code: 03620
 : Status Code: 0
 : Fee Category: 3E 2C 3M
 : Exp. Date: 20131031
 : Fee Comments: _____
 : Decom Fin Assur Reqd: Y
 : ::

BETWEEN:
 License Fee Management Branch, ARM
 and
 Regional Licensing Sections

LICENSE FEE TRANSMITTAL

A. REGION **I**

1. APPLICATION ATTACHED
 Applicant/Licensee: LOCKHEED MARTIN COMMERCIAL
 Received Date: 20031126
 Docket No: 3012894
 Control No.: 134060
 License No.: 37-02006-09
 Action Type: Amendment

2. FEE ATTACHED
 Amount: \$1500.00
 Check No.: 1428

3. COMMENTS
**No FEE DUE FOR
 AMENDMENT.**

Signed *M. D. Pabian*
 Date 11/26/03

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

- 1. Fee Category and Amount: _____
- 2. Correct Fee Paid. Application may be processed for:
 Amendment _____
 Renewal _____
 License _____
- 3. OTHER _____

Signed _____
 Date _____