

RECEIVED  
REGION 1

700 DEC 26 PM 2: 46 **LOCKHEED MARTIN**  
Communications and Power Center

December 19, 2000

*NM502*

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

Subject: Amendment Application  
Reference: License No. 37-02006-09  
Docket No. 030-12894

Dear Ms. Ullrich:

Lockheed Martin Corporation, Communications and Power Center hereby submits an Amendment Application on Form 313, with Attachments (1 original, 1 copy), for the purpose of modification of license number 37-02006-09. The intent of this amendment is to notify you of a change regarding the Radiation Safety Officer position and members of the Radiation Safety Committee for the Communications and Power Center.

If you have any questions regarding this Amendment application, please contact me at 215-497-1312 or Clare LumKong at 215-497-1307.

Sincerely,



Jeff Evans  
Radiation Safety Officer

Enclosures

Cc: S. Walker-LM-CPC  
J. Zedro-LM-CPC  
C. LumKong-LM-CPC  
T. Williams-LM-VF  
S. Porter - Porter Consultants  
File 5.4

1 2 9 0 2 2

NMSS/RGN MATERIALS-002

*C-3*

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(8-1999)  
10 CFR 30, 32, 33  
34, 35, 36, 39 and 40

**APPLICATION FOR MATERIAL LICENSE**

Estimated burden per response to comply with this mandatory information collection request 7.4 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 estimates to the Records Management Branch (T-5 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@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, 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  
81 FORSYTH STREET, S.W., SUITE 23785  
ATLANTA, GEORGIA 30303-8931

**IF YOU ARE LOCATED IN:**  
ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:  
  
MATERIALS LICENSING SECTION  
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  
811 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-8064

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.

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>37-02006-09</u></p> <p><input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____</p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)</p> <p>Lockheed Martin Corporation Communications and Power Center 100 Campus Drive Newtown, PA 18940</p>
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<p>3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>Communications and Power Center, 100 Campus Drive, Newtown, PA; Valley Forge Missiles and Space Operations, 230 Mall Blvd., King of Prussia, PA</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Jeffrey Evans / Clare LumKong</p> <p>TELEPHONE NUMBER</p> <p>215-497-1312 / 215-497-1307</p>
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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.

<p>5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</p>	<p>8. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>
<p>9. FACILITIES AND EQUIPMENT.</p>	<p>10. RADIATION SAFETY PROGRAM.</p>
<p>11. WASTE MANAGEMENT.</p>	<p>12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)</p> <p>FEE CATEGORY _____ AMOUNT ENCLOSED \$ <u>0.00</u></p>

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.  
  
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 82 STAT. 749 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.

<p>CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE</p> <p>Steven J. Walker, Vice President</p>	<p>SIGNATURE</p> 	<p>DATE</p> <p>12/19/00</p>
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FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	129022

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Lockheed Martin Communications and Power Center  
License Amendment  
NRC# 37-02006-09  
December 19, 2000

**Attachment No. 2  
Appointment of Interim Radiation Safety Officer**

Lockheed Martin Corporation, Communications and Power Center (LM-CPC) is appointing Mr. Sydney Porter of Porter Consultants as interim Radiation Safety Officer starting January 5, 2001. Mr. Porter will be assuming the Radiation Safety Officer duties on a temporary basis until a new permanent Radiation Safety Officer is appointed. Mr. Porter's resume is included as part of this attachment.

**Sydney W. Porter, Jr., CHP**

Sydney W. Porter, Jr., CHP  
Professor, Adjunct, Drexel University, Graduate School of Environmental Sciences  
Diplomat; American Academy of Health Physics  
Elected Fellow: Health Physics Society in 1997

Summary:

Over 40 years of experience in the fields of health physics, radiation dosimetry (including Radon), radiological environmental monitoring, emergency planning, nuclear engineering, radiation dosimetry and radiochemistry; certified by the American Board of Health Physics, (comprehensive practice) in 1966, recertified every four years; Elected President of the Health Physics Society Radon Section; Past President and founder of the Eastern PA Chapter of American Association of Radon Scientists and Technologists, Inc (AARST); Past President of National AARST, 1991-1992

Health Physics Audit Experience:

Mr. Porter has over 40 years of experience in professional power reactor Health Physics, including seven years experience as a member of the US Department of Defense Reactor Inspector General's Team. He has performed over thirty-five audits on pressurized water power reactors, plus numerous audits on boiling water reactors, high temperature gas cooled reactors and sodium-cool reactors, as well as research and testing reactors. He has also many years' experience in dose calculations from radionuclide releases as well as the design and implementation of radiological environmental monitoring programs (both on and off facility types): and also with installation; calibration and use of installed radiation-monitoring systems.

Mr. Porter has investigated over twenty suspected overexposure incidents and performed detailed dosimetry assessments, as well as having taught over forty two-day Dosimetry/Hot Particle Assessment classes (28 continuing education credits from the American Board of Health Physics). An important part of this class is a detailed appraisal of the existing dosimetry programs and procedures.

Research and Testing Reactor Audits include the Martin Nuclear Division APPR Prototype as well as the TRIGA mark1 (1600 MW pulse) – All radiation safety procedures, including radionuclide production operations, hot cell operations, stack monitor design and implementation. Special Department of Defense Site Audits include a Bomarc Missile Site – Assessment of a Broken Arrow incident (plutonium contamination). Technologically Enhanced Natural Occurring Radioactive Material Audits include Radium Dial Painting Facilities, Thorium in Glass Factory and Burial Ground, Radium Separation Factory, Lansdowne, PA, Radium Tailings in Private Homes, Orange, NJ, US Radium Corp. spoils site and Quehanna D&D site. University audits include University of Pennsylvania, Temple University and Drexel University. Dozens of large and small laboratory site have been audited.

Certifications:

Comprehensive certification in health physics (CHP) by the American Board of Health Physics in 1967. Re-certified in 1981, 1985, 1989, 1993, 1997 (through 2001). Certification in the EPA Radon Measurement Proficiency Program, 1991 to present. Pennsylvania State (department of Environmental Protection) Radon Testing, Certification #0004.

Experience:

1974-Present: President, Porter Consultants, Inc.

Responsibilities: include design, measurement, management, evaluation, implementation, calculation or control of the following areas: environmental radioactivity, power reactor health physics, environmental radiological dose assessment, radiation hazard surveys, emergency planning and occupation and medical radiation exposure. From 1979-1982 was Head, Radio-effluent and Dose Assessment Section, Three Mile Island Nuclear Station (all TMI accident related). Also responsible for the Radiological Environmental Monitoring Program at TMI. Responsible for a broad range of radiation dosimetry assignments (both external and internal) during both routine and emergency conditions. Radiation Dosimetry Consultant to the states of Pennsylvania, New Jersey, Delaware and Iowa.

1969-1974: Vice President of Health Physics Operations; Co founder of Radiation management Corporation (RMC) in Philadelphia, PA

1963-1969: Head Radiological Safety Department, Armed Forces Radiobiology Research Institute (AFRRI) in Bethesda, MD

1957-1963: Assistant Coordinator, then Coordinator of Health Physics, Electric Boat Co., General Dynamics Corporation in Groton, CT

Information in this record was deleted in accordance with the Freedom of Information Act.  
Exemptions 6  
FOIA/PA 2007-244

Education:

St Johns College, MD-BS, Physical Sciences (b)(6)  
John Hopkins University - Graduate studies in Physical Chemistry, 1956  
New York University - Graduate studies in Radiochemistry

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Professional Organizations:

American Association of Radon Scientists and Technologists – President (1991-1992)  
Air Pollution Control Association  
American Association of Physicists in Medicine  
American Chemical Society  
American Industrial Hygiene Association  
American Nuclear Society  
American Physical Society  
American Society of Testing Materials  
Health Physics Society – Charter Member,  
past president of two chapters, President Radon Section  
Society for Risk Analysis – Charter Member  
Society of Radiation Protection (UK)

Publications:

Published over thirty peer reviewed journal articles, books and guides relating to health physics, radiation dosimetry, emergency planning, environmental impact and radiological environmental subjects. Over three hundred Technical Reports produced for customers over the past twenty-five years.

**Attachment No. 3**  
**Radiation Safety Committee Members**  
**Resume of Newly Appointed Radiation Safety Committee Member**

<b>Name</b>	<b>Title</b>	<b>RSC Designation</b>
Roman Herschitz	Manager, Specialty Engineering Department	Chairman
Clare LumKong	Environmental Safety and Health Lead	Secretary
Todd J. Williams	Associate Radiation Safety Officer – Valley Forge Operations	Member
Joseph J. Matula, DO, FAAFP	CPC Plant Physician	Member
Robert Gigliuto	Staff Design Engineer	Member
Julio Salas *	Senior Staff Engineer	Member
Sydney W. Porter, CHP	Certified Health Physicist	Interim RSO / Consultant
Mark W. MacGregor	Payload Power Specialist	Member

\* Newly appointed member

**Julio Salas**

Julio Salas  
Senior Staff Engineer  
CPC, Newtown, PA

**Education:**

CUYAHOGA COMMUNITY COLLEGE, Cleveland, OH  
Business, 112 Credits Earned  
INSTITUTO INDUSTRIAL #24, Surquillo, Lima, Peru - Auto Mechanics

**Experience:**

LOCKHEED MARTIN, Missiles and Space Division, NEWTOWN, PA  
(formerly Martin Marietta and General Electric Co.)

**Senior Staff Engineer**

**1997 - present**

Responsibilities included Transition of Defense Satellite Communication System (DSCS) Program from Valley Forge to Communication Power Center, Newtown, PA.

- Supervised DSCS SLEP modification of four payload panels for program.
- Radiation Safety Trained and experienced in work with radioactive magnesium and thorium alloy material since 1984.

**Manager Shop Operations**

**1996 - 1997**

Responsible for delivery of components and satellites to Integration & Test.

- Managed functions of Final Assembly, Orbital Welding Paint and Structure Shops.
- Resolved all associated technical, cost, schedule, logistics, customer, and vendor problems.
- Interfaced with Engineering, Manufacturing, Test, Quality, Subcontractors and customers to resolve problems and status program.

**Manufacturing Engineer / Supervisor, Shop Operations**

**1984 - 1996**

Responsible for shops: Final Assembly, Pre-Assembly, Transponder, Paint and Composites.

- Developed methods of operation and wrote Manufacturing Standing Instructions (MSI).
- Developed and provided work area for welding operations of propulsion systems.
- Interfaced well with shop operations, supported unit program offices and customer representatives.
- Met all goals and deadlines ahead of schedule.
- Supervised Final Assembly shop; interacted with other departments.
- Increased production and quality while decreasing overtime and manpower.



**Supervisor, Solar Collector Manufacturing**

**1980 - 1984**

Responsibilities included production of evacuated tube solar collectors; maintained product quality.

**Manufacturing Engineer**

**1976 - 1980**

Responsible for project engineering task, including placing parts orders and developing Engineering Change Notifications (ECN's), relocation of equipment, evaluation of suggestions, inspection of critical parts coming in from outside vendors, and creating inventory control.

- Performed basic troubleshooting of plant equipment and rebuilt following equipment: T-7 Stem Machine, 501, J-301, A-301, F-301 Automatic Mount Machine, B-174 and C-174 Sealex Machine, H-30, K-30 Basing Machine.
- Turned cost improvements in excess of \$200K.

**Stem Maker Mechanic**

Responsible for maintenance and repair of shop machinery such as Forming Devices, Spot Welders, Mounting Machines, Automatic Stem Loading Machine, Flashing Machines and Press Mounters.

**Radiation Safety Training:**

MagThorium Radiation Safety Course – Attended Annual 1 hour radiation safety courses covering the following items: ionizing radiation theory, NRC regulations, biological effects, safe handling of Magnesium Thorium, radiation safety monitoring/surveying, ALARA, and personal dosimetry.

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

12/19/2000, 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

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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 129022  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R1)  
(8-96)

Sincerely,  
Licensing Assistance Team Leader

BETWEEN: : (FOR LFMS USE)  
 : INFORMATION FROM LTS  
 : -----  
 :  
 License Fee Management Branch, ARM : Program Code: 11300  
 and : Status Code: 0  
 Regional Licensing Sections : Fee Category: 3E 2C 3M  
 : Exp. Date: 20030531  
 : Fee Comments: \_\_\_\_\_  
 : Decom Fin Assur Req: Y  
 : .....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED  
 Applicant/Licensee: LOCKHEED MARTIN CORPORATION  
 Received Date: 20001226  
 Docket No: 3012894  
 Control No.: 129022  
 License No.: 37-02006-09  
 Action Type: Amendment

2. FEE ATTACHED  
 Amount: \_\_\_\_\_  
 Check No.: /

3. COMMENTS

Signed Mr. A. Perkins  
 Date 1/3/2001

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 \_\_\_\_\_

P.11

**COVER SHEET FOR CORRESPONDENCE**  
**USE THIS COVER SHEET TO PROTECT ORIGINALS OF**  
**MULTI-PAGE CORRESPONDENCE**