

Duplicate

■ MATERIALS LICENSE ■

Duplicate

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.

<p>Licensee</p> <p>1. Lockheed Martin Corporation</p> <p>2. Kennedy Drive Archbald, Pennsylvania 18403-1598</p>	<p>In accordance with the letter dated May 30, 2000,</p> <p>3. License number 37-16268-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date March 31, 2005</p> <p>5. Docket No. 030-10698 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Americium 241</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed neutron source (Amersham Model AMN.PE1 or Monsanto Model 2721B)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 200 millicuries</p>
<p>9. Authorized use:</p> <p>A. Testing and calibration of nuclear instrumentation.</p>		

## CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at Kennedy Drive, Archbald, Pennsylvania.
11. A. Licensed material shall be used by, or under the supervision and in the physical presence of, Robert J. Pazzaglia, or individuals who have received the training described in letters dated May 31, 1996 and February 1, 1995, and have been designated in writing by the Radiation Safety Officer.
- B. The Radiation Safety Officer for this license is Robert J. Pazzaglia.

Duplicate

■

Duplicate

■

Duplicate

Duplicate ■  
**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

Duplicate ■ Duplicate  
License Number  
87-16268-01  
Docket or Reference Number  
030-10698  
Amendment No. 28

12. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- 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 three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person 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 and 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, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. 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 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, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Director, Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

Duplicate ■ Duplicate ■ Duplicate

Duplicate

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

Duplicate

License Number

87-16268-01

Duplicate

Docket or Reference Number

030-10698

Amendment No. 28

- G. The licensee is authorized to collect leak test samples for analysis by licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
15. The licensee shall conduct a physical inventory every six months, or at other interval approved by NRC, to account for all sealed sources and/or devices received and possessed under the license.
16. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR Part 31 or equivalent regulations of any Agreement State or to persons exempt from licensing pursuant to 10 CFR 30.14 through 30.20 inclusive, or equivalent regulations of any Agreement State.

Duplicate

Duplicate

Duplicate

Duplicate  
MATERIALS LICENSE  
SUPPLEMENTARY SHEET

Duplicate

License Number

87-16268-01

Docket or Reference Number

030-10698

Amendment No. 28

Duplicate

18. 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. Letter dated February 1, 1995, Revised Exhibits B. and C. only
- B. Letter dated May 31, 1996, Supplement to Item 8 only
- C. Letter dated June 25, 1996
- D. Letter dated June 27, 1996
- E. Letter dated November 26, 1996
- F. Letter dated March 30, 1998
- G. Letter dated May 30, 2000
- H. Letter dated July 6, 2000

For the U.S. Nuclear Regulatory Commission

Date July 31, 2000

By

**Original signed by James M. Bondick**

James M. Bondick  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety  
Region 1  
King of Prussia, Pennsylvania 19406

Duplicate

Duplicate

Duplicate