

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

1 (Check one) <input type="checkbox"/> (a) New license <input checked="" type="checkbox"/> (b) Amendment to License No. SUB-992 <input type="checkbox"/> (c) Renewal of License No. _____ <input type="checkbox"/> (d) Previous License No. _____		2 NAME OF APPLICANT Armament Division/3246 TESTW	
		3. PRINCIPAL BUSINESS ADDRESS Eglin AFB FL 32542	
4 STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED Eglin AFB FL			
5 NAME OF PERSON TO BE CONTACTED CONCERNING THIS APPLICATION Mr Harry Harris		6. TELEPHONE NO. OF INDIVIDUAL NAMED IN ITEM 5 904/882-4481	
7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED See Supplemental Sheet - Item 7, License Renewal Application dated 10 August 1981.			
8 STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE			
(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (kilograms)
NATURAL URANIUM			
URANIUM DEPLETED IN THE U-235 ISOTOPE	Reduced Metallic U-238, Uranium Oxides	Solid up to 99.7% U-238	70,000
THORIUM (ISOTOPE)			
(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (kilograms) 70,000			
9 DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES. See Supplemental Sheet - Item 9, License Renewal Application dated 10 August 1981.			
10 LIST THE NAMES AND ATTACH A RESUME OF THE TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE OF APPLICANT'S SUPERVISORY PERSONNEL AND THE PERSON RESPONSIBLE FOR THE RADIATION SAFETY PROGRAM (OR OF APPLICANT IF AN INDIVIDUAL). See Supplemental Sheet - Item 10, License Renewal Application dated 10 August 1981 and attached revision.			
11 DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY, AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9. INCLUDE (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate. The description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument). See Supplemental Sheet - Item 11, License Renewal Application dated 10 August 1981.			
(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier). See Supplemental Sheet - Item 11, License Renewal Application dated 10 August 1981.			

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NMSS LIC40
SUB-0992
PDR

11(c). VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INCLUDING PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS, MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PROCEDURES FOR TESTING SUCH EQUIPMENT.

See Supplemental Sheet - Item 11, License Renewal Application dated 10 August 1981.

12. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 9. INCLUDE: (a) SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

See Supplemental Sheet - Item 12, License Renewal Application dated 10 August 1981.

(b) EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.

See Supplemental Sheet - Item 12, License Renewal Application dated 10 August 1981.

(c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

See Supplemental Sheet - Item 12, License Renewal Application dated 10 August 1981.

13. WASTE PRODUCTS: If none will be generated, state "None" opposite (a) below. If waste products will be generated, check here ☒ and explain on a supplemental sheet: See Supplemental Sheet - Item 13, License Renewal Application dated 10 August 1981.

(a) Quantity and type of radioactive waste that will be generated.

(b) Detailed procedures for waste disposal.

14. IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:

(a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.

(b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.

(c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.

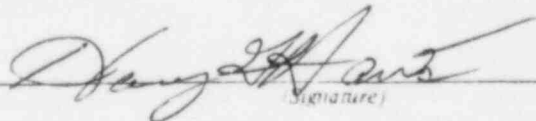
(d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

CERTIFICATE

(This item must be completed by applicant)

15. The applicant, and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

BY:


(Signature)

5 Apr 1985

HARRY G. HARRIS

Dated _____

Print or type name

Electronic Engineer, Land Range Armament Systems Division

Title of certifying official authorized to act on behalf of the applicant

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 any department or agency of the United States as to any matter within its jurisdiction.

Supplemental Sheet - Item 10

1. All activities involving radioactive materials conducted under this license will be supervised by Mr. Harry G. Harris of the 3246th Test Wing, Maj Jefferson B. Prather, the Armament Division Radiation Protection Officer, and Capt John P. Albright, Armament Division Alternate Radiation Protection Officer.

2. The technical qualifications including training and experience of Mr. Harry G. Harris, SSAN 423-40-0185, are:

a. Formal Education

June 1960 BS EE University of Alabama

b. General Experience

Mr. Harris has been closely associated with the AD DU test program since 1977. He was a member of the C-64 DU facility design team and was directly responsible for selection and acquisition of all radiation monitoring and survey equipment. Upon completion of construction of the facility, Mr. Harris was assigned complete management responsibility.

3. The technical qualifications including training and experience of Capt John P. Albright, SSAN 587-56-6468, are:

a. Formal Education

May 1977 BS Nuclear Engineering, Mississippi State University

June 1977 Radiation Safety and Protection - 40 hours
Ingalls Shipbuilding, Submarine Program, Pascagoula, Ms

Aug-Dec 1979 Bioenvironmental Engineering Course 790BY9121
USAF School of Aerospace Medicine, Brooks AFB, Tx

5-9 Mar 1984 Health Physics Aspects of Depleted Uranium
US Army MERADCOM, Ft. Belvoir, Virginia

20-24 Aug 84 Occupational and Environmental Radiation Protection
Harvard School of Public Health, Boston, Ma

b. General Experience

June 1977 - Oct 1978 - Refueling Engineer
Submarine Program
Ingalls Shipbuilding
Pascagoula, Mississippi

May 1979 - July 1980 - Base Bioenvironmental Engineer
Tyndall AFB, Fl.

July 1980 - July 1983 Base Bioenvironmental Engineer
USAF Rgn Medical Center Wiesbaden FRG

July 1983 - Present Base Bioenvironmental Engineer
USAF Regional Hospital Eglin
Eglin AFB Fl

18961

CONVERSATION RECORD

TIME

12:03

DATE

7/22/85

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

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

Capt. L. Donovan

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

Air Force

TELEPHONE NO.

(512)

536-3331

SUBJECT

(A) Should Dr. Cornette and Roy Prother continue to be listed on license or deleted?

SUMMARY

(A) Both should be removed.

Lic # SUB-992

Contract # 018961

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

Brenda Brown

SIGNATURE

Brenda Brown

DATE

7/22/85

ACTION TAKEN

SIGNATURE

TITLE

DATE

50271-101

☆ GPO : 1981 O - 341-526 (6502)

CONVERSATION RECORD

OPTIONAL FORM 271 (12-76)
DEPARTMENT OF DEFENSE

MATERIALS LICENSE

Inherent No. 12

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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to import such byproduct and source material. 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 application dated <i>April 5, 1985</i>	
1. Department of the Air Force		3. License number <i>982-992</i> is amended in its entirety to read as follows:	
2. Eglin Air Force Base, Florida 32542		4. Expiration date <i>March 31, 1987</i>	
		5. Docket or Reference No. <i>040-0211</i>	
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. Uranium	B. Depleted uranium alloy	A. 70,000 kilograms	

F. Authorized use

Receipt, storage, testing and evaluation of munitions containing depleted uranium. The use of depleted uranium munitions containing high explosives shall only be performed at the WTRF (Water Total Recovery Facility) with no more than 200 pounds explosive weight per test shot.

CONDITIONS

10. Licensed material shall be used only at Eglin AFB, Florida, including Test Area C-00A.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, *Harry H. Harris or John P. Albright*.
13. Depleted uranium test areas shall be properly marked and fenced and the licensee shall be required to show the exact location(s) of contaminated area(s) (or building(s)). The licensee shall retain control over the contaminated areas (or building) until it is decontaminated to levels acceptable to Nuclear Regulatory Commission or transferred to an authorized recipient.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

SLP-202

Docket or Reference number

62-05011

Transmittal No. 12

(continued)

14. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in applications dated December 11, 1980, and August 10, 1981; and letters dated December 15, 1980, January 2, 1981, October 16, 1981, March 1, 1982, March 31, 1982, and November 7, 1983. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

and application dated April 5, 1985.