

40-8158



DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF FOR LOGISTICS
WASHINGTON, D.C. 20310

Regulatory

File Cy.

DALO-MAB-I

4 MAR 1974

US Atomic Energy Commission
Directorate of Licensing
Materials Branch
Washington, DC 20545



Gentlemen:

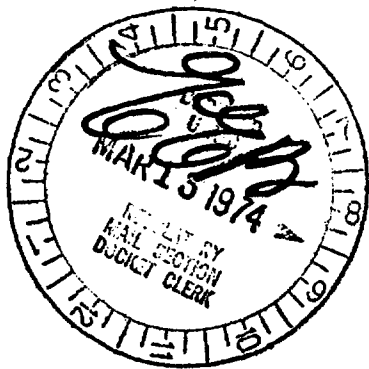
Please refer to Source Material License No. SUB-1150 issued to the US Army Electronics Command, Fort Monmouth, New Jersey.

Attached is an application to amend this license. Stanley A. Potter is no longer alternate RPO for this license and his name should be deleted. Charles E. Kent, Jr. has been appointed in his place. A resume of training and experience for Mr. Kent is attached as an inclosure to the Application for amendment.

Sincerely yours,

R. H. RATCLIFF
LTC, GS
Acting Chief, Programs and Budget Division

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as (5 cys)



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AEC

UNITED STATES ATOMIC ENERGY 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.

<p>1. (Check one)</p> <p><input type="checkbox"/> (a) New license</p> <p><input checked="" type="checkbox"/> (b) Amendment to License No. <u>SUB-1150</u></p> <p><input type="checkbox"/> (c) Renewal of License No. _____</p> <p><input type="checkbox"/> (d) Previous License No. _____</p>		<p>2. NAME OF APPLICANT</p> <p>Dept. of Army, US Army Electronics Command</p> <p>3. PRINCIPAL BUSINESS ADDRESS</p> <p>ATTN: AMSEL-SF</p> <p>Fort Monmouth, New Jersey 07703</p>																	
<p>4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p style="text-align: center;">No Change</p>																			
<p>5. BUSINESS OR OCCUPATION</p> <p style="text-align: center;">No Change</p>		<p>6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP</p> <p style="text-align: center;">N/A</p>	<p>(b) AGE</p> <p style="text-align: center;">N/A</p>																
<p>7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p style="text-align: center;">No Change</p>																			
<p>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</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">(a) TYPE</th> <th style="width:25%;">(b) CHEMICAL FORM</th> <th style="width:25%;">(c) PHYSICAL FORM (Including % U or Th.)</th> <th style="width:30%;">(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)</th> </tr> </thead> <tbody> <tr> <td>NATURAL URANIUM</td> <td style="text-align: center;">No Change</td> <td></td> <td></td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>THORIUM (ISOTOPE)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)</p>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)	NATURAL URANIUM	No Change			URANIUM DEPLETED IN THE U-235 ISOTOPE				THORIUM (ISOTOPE)			
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<p>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.</p> <p style="text-align: center;">No Change</p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL).</p> <p style="text-align: center;">James M. Garner, Jr. Radiation Protection Officer <i>See application 26 Oct 72</i> Charles E. Kent, Jr. Alternate Radiation Protection Officer (See Supplement Two)</p>																			
<p>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).</p> <p style="text-align: center;">No Change</p>																			
<p>(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).</p> <p style="text-align: center;">No Change</p>																			

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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.

N/A

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.

No Change

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

No Change

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

No Change

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:*

- (a) Quantity and type of radioactive waste that will be generated. No Change
- (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.*

Department of the Army
US Army Electronics Command

(Applicant named in Item 2)

Dated 22 January 1974

BY: Bernard M. Savaiko
(Print or type name under signature)
Bernard M. Savaiko
Chief, Safety Office
(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.

Supplement Two

Add: Attached Resume of Charles E. Kent, Jr.

Resume of Training and Experience
of Charles E. Kent, Jr.

1. Educational Background

Austin Peay State University	4 yrs	1970	B.S. Physics
The University of Mississippi	2 yrs	1972	M.S. Physics
Oak Ridge Assoc. University	10 wks	1972	Compl. Health Physics Course
AEC Bethesda, MD	3 wks	1972	Orientation course in Licensing and Regulations
University of Alabama Medical School	1 wk	1973	Compl. Radiation Survey of Sophisticated X-ray Mach. Course
Louisiana State University	1 wk	1973	Compl. Industrial Radiography Course

2. Vocational Experience with Radiation

Feb. 1972 - Dec. 1973 Tennessee Dept. of Public Health as Radiological Physicist
 Dec. 1973 - Present US Army Electronics Command, Health Physicist

3. Formal Training in Radiation

a. Principles and Practices of Radiation Protection

<u>Where Trained</u>	<u>Duration</u>
Austin Peay State University	12 wks
The University of Mississippi	8 wks
Oak Ridge Associated University	10 wks
Louisiana State University	1 wk
University of Alabama	1 wk

b. Radioactivity Measurement Standardization and Monitoring Techniques and Instruments.

<u>Where Trained</u>	<u>Duration</u>
Austin Peay State University	16 wks
The University of Mississippi	8 wks
Oak Ridge Associated University	10 wks
Louisiana State University	1 wk
University of Alabama	1 wk

c. Mathematics and Calculations basic to the use and measurement of radioactivity.

<u>Where Trained</u>	<u>Duration</u>
Austin Peay State University	30 wks
The University of Mississippi	8 wks
Oak Ridge Associated University	10 wks
Louisiana State University	1 wk
University of Alabama	1 wk

d. Biological Effects of Radiation.

<u>Where Trained</u>	<u>Duration</u>
Austin Peay State University	2 wks
The University of Mississippi	8 wks
Oak Ridge Associated University	10 wks
University of Alabama	1 wk

4. On-the-job Training in radiation.

a. Principles and Practices of Radiation Protection

<u>Where Trained</u>	<u>Duration</u>
Tennessee Dept. of Public Health	2 yrs
Fort Monmouth, New Jersey	1 mo

b. Radioactivity Measurement Standardization and Monitoring Techniques and Instruments.

<u>Where Trained</u>	<u>Duration</u>
Tennessee Dept. of Public Health	2 yrs
Fort Monmouth, New Jersey	1 mo

c. Mathematics and Calculations Basic to the Use and Measurement of Radioactivity.

<u>Where Trained</u>	<u>Duration</u>
Tennessee Dept. of Public Health	2 yrs
Fort Monmouth, New Jersey	1 mo

d. Biological Effects of Radiation.

<u>Where Trained</u>	<u>Duration</u>
Tennessee Dept. of Public Health Fort Monmouth, New Jersey	2 yrs 1 mo

5. Experience with Radioisotopes.

<u>Isotope</u>	<u>Maximum Activity</u>	<u>Place of Experience</u>	<u>Duration of Experience</u>
Ir-192	Curries	Louisiana State Univ.	1 wk
Co-60	Curries	Louisiana State Univ	1 wk
Cs-137	Millicurries	Tenn. Dept. of Public Health	1 wk
C6-60	Millicurries	Tenn. Dept. of Public Health	1 wk
Ra-226	Millicurries	Oak Ridge Assoc. Univ.	1 wk