

APPLICATION FOR BYPRODUCT MATERIAL LICENSE  
INDUSTRIAL

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

a. NEW LICENSE

b. AMENDMENT TO:  
LICENSE NUMBER  
31-17968-02

c. RENEWAL OF  
LICENSE NUMBER

2. APPLICANT'S NAME (Institution, firm, person, etc.)

DEPARTMENT OF THE NAVY

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION  
USS VULCAN (AR-5)

3. NAME AND TITLE OF PERSON TO BE CONTACTED  
REGARDING THIS APPLICATION

CWO2 B. COLE (804) 543-7528

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION  
EXT 7207

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)  
(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

FPO NEW YORK, N.Y. 09548-2545

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED  
(Include Zip Code)

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL

(See Items 16 and 17 for required training and experience of each individual named below)

	FULL NAME	TITLE
a.		
b.		
c.		

7. RADIATION PROTECTION OFFICER

*B. Cole*

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

L I N E  NO.	ELEMENT AND MASS NUMBER  A	CHEMICAL AND/OR PHYSICAL FORM  B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)  C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME  D
(1)	IR-192	IRIDIUM	TECH OPS MODEL 200 <sup>FX</sup> <del>520-866</del>	100 CURIES
(2)				
(3)				
(4)				
	8602180335 851231 NMSS LIC30 31-17968-02 PDR			
	DESCRIBE USE OF LICENSED MATERIAL E			

- (1) FOR USE IN AUTOMATION INDUSTRIES/TECH OPS MODEL 520
- (2) EXPOSURE DEVICES FOR INDUSTRIAL RADIOGRAPHY AND IN AUTOMATION
- (3) INDUSTRIES/TECH OPS MODEL 500-SU SOURCE CHANGERS FOR
- (4) STORAGE AND REPLACEMENT OF SOURCES.

### 9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)			
(2)			
(3)			
(4)			

### 10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)						
(2)						
(3)						
(4)						

### 11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY	<input type="checkbox"/> b. CALIBRATED BY APPLICANT <i>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</i>
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### 12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input type="checkbox"/> (1) FILM BADGE  <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)  <input type="checkbox"/> (3) OTHER (Specify): _____  		<input type="checkbox"/> MONTHLY  <input type="checkbox"/> QUARTERLY  <input type="checkbox"/> OTHER (Specify): _____  

### 13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- ☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.  
☐ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.  
☐ c. REMOTE HANDLING TOOLS OF EQUIPMENT, ETC.  
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

### 14. WASTE DISPOSAL

- a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED \_\_\_\_\_
- b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.



DEPARTMENT OF THE NAVY

USS VULCAN (AR-5)

FPO NEW YORK 09548-1545

In Reply Refer To:

5100

Ser 04/1583

6 November 1985

From: Commanding Officer, USS VULCAN (AR-5)  
To: Nuclear Regulatory Commission, Washington, D.C. 20500  
Via: Officer In Charge, Naval Sea Systems Command Detachment RASO,  
Yorktown, VA 23451

Subj: NRC LICENSE 31-17968-02 Amendment NRC Form 313 I (12-81)

Ref: (a) NAVSEA DET RASO YORKTOWN, VA 211400Z OCT 85

Encl: (1) Application for By Product Material License Industrial

1. Enclosure (1) is submitted to comply with reference (a)

*J. M. Leeds*  
J. M. LEEDS

~~8602160333~~

<b>NRC Form 313 I</b> (12-81) 10 CFR 30		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>							
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