

## APPLICATION FOR MATERIAL LICENSE

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

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:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY SECTION B  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,  
PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR  
WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
NUCLEAR MATERIALS SAFETY SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR  
WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,  
NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH,  
OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON,  
AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS  
TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

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 JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE  
☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_  
☒ C. RENEWAL OF LICENSE NUMBER 45-17852-01

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

J.H. MARTIN & SONS CONTR., INC.  
P.O. BOX 34745  
RICHMOND, VIRGINIA 23234

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

STORAGE @ : 6550 IRON BRIDGE ROAD, RICHMOND, VIRGINIA 23234 0.75 MILES  
SOUTH OF COGBILL ROAD RICHMOND, VA. TEMPORARY JOB SITE IN  
STATES SUBJECT TO NRCS REGULATORY AUTHORITY.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

J.H. MARTIN, JR.

TELEPHONE NUMBER

804-275-1670

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.

5. RADIOACTIVE MATERIAL SEE ATTACHED SHEET  
a. Element and mass number, b. chemical and/or physical form, and c. maximum amount  
which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

SEE ATTACHED SHEET

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR  
TRAINING AND EXPERIENCE SEE ATTACHED SHEET

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

SEE ATTACHED SHEET

9. FACILITIES AND EQUIPMENT SEE ATTACHED SHEET

10. RADIATION SAFETY PROGRAM.

SEE ATTACHED SHEET

11. WASTE MANAGEMENT. SEE ATTACHED SHEET

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT  
ENCLOSED \$ 120.00

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, 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, 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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

J.H. MARTIN, JR.

PRESIDENT

9-13-88

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
AMOUNT RECEIVED	CHECK NUMBER	<i>see 6/14/88 app for fee info</i>		DATE
8907240245 880922 REG2 LIC30 45-17852-01	PDR			

ATTACHMENT FOR ITEMS 5-11 REFERENCE APPLICATION  
FOR MATERIAL LICENSE

ITEM 5

A) ELEMENT & MASS NUMBER

- 1) CESIUM 137
- 2) AMERICIUM 241

B) CHEMICAL AND/OR PHYSICAL FORM

- 1) SEALED SOURCE (Troxler DWG. A-102112)
- 2) SEALED NEUTRON SOURCES (Troxler DWG. A-102451)

C) MAXIMUM AMOUNT POSSESSED

- 1) NOT TO EXCEED 10 MILLICURIES PER SOURCE
- 2) NOT TO EXCEED 50 MILLICURIES PER SOURCE

ITEM 6

FOR MEASURING MOISTURE AND DENSITY OF CONSTRUCTION MATERIALS.

ITEM 7

J.H. MARTIN, JR.

TRAINING: TROXLER ELECTRONIC LABS, INC.  
STANDARD TWO (2) DAY TRAINING  
1978 RICHMOND, VIRGINIA  
INSTRUCTOR: W. WARRELL

ITEM 8

ANY ADDITIONAL EMPLOYEES OTHER THAN J.H. MARTIN, JR. WILL COMPLETE A DEVICE MANUFACTURERS TRAINING PROGRAM BEFORE USING THE DEVICE.

ITEM 9

THE DEVICE WILL BE STORED IN A LOCKED STORAGE AREA IN AN APPROVED TROXLER SAFETY CARRYING CASE. IT WILL BE USED & TRANSPORTED BY AUTHORIZED EMPLOYEES ONLY.

ITEM 10

10.1 & 2 ALL QUALIFIED EMPLOYEES WILL WEAR A FILM BADGE FURNISHED BY R.S. LANDAUER, JR. & CO., GLENWOOD, ILLINOIS 604525 DURING USE.

10.3 RECALIBRATION TESTS & LEAK TESTS ARE PERFORMED EVERY 6 MONTHS WHICH IS THE SPECIFIED INTERVAL FOR THIS DEVICE. THESE TESTS ARE PERFORMED BY TROXLER ELECTRONIC LABS, INC. 3008 CORNWALLIS ROAD RESEARCH TRIANGLE, N.C. 27709 NRC LICENSE # 32-05-998-03.

10.4 ANY MAINTENANCE PERFORMED (CLEANING ONLY) WILL BE DONE IN AN UP RIGHT POSITION, DEVICE OFF, AND IN A SAFE SHIELDED POSITION. THE RADIOACTIVE SOURCE WILL NOT BE PERMITTED TO BE REMOVED FROM THE DEVICE.

10.5 THE TRANSPORTATION OF THIS DEVICE WILL COMPLY WITH THE REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION SUBPART E OF 49 CFR PART 172 & SUBPART I OF 49 CFR PART 173.

10.6 WRITTEN OPERATING AND EMERGENCY PROCEDURES WILL BE PROVIDED FOR EACH PERSON QUALIFIED TO USE THIS DEVICE. THESE PROCEDURES WILL INCLUDE:

- 1) USE OF PERSONNEL MONITORING.
- 2) USE OF THE DEVICE.
- 3) STORAGE OF THE DEVICE.
- 4) TRANSPORTATION
- 5) LEAK TESTING
- 6) EMERGENCY PROCEDURES.

**ITEM 11**

IF THE LICENSED MATERIAL IS TO BE DISPOSED OF IT WILL BE TRANSFERRED TO AN AUTHORIZED RECIPIENT AS SPECIFIED IN 20.3C1 A OF 10 CFR PART 20. IT WILL BE BY TRANSFER TO A LICENSEE SPECIFICALLY AUTHORIZED TO POSSESS IT.





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W.  
ATLANTA, GEORGIA 30323

JUL 12 1988

"OFFICIAL RECORD COPY"

J. H. Martin & Sons Contractors, Inc.  
ATTN: L. E. Whiteside  
P.O. Box 34745  
Richmond, VA 23234

Docket No. 030-13541  
License No. 45-17852-01  
Control No. 252280

Gentlemen:

SUBJECT: LICENSE RENEWAL APPLICATION

This is to acknowledge receipt of your application for renewal of the nuclear material license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding your renewal application should reference the control number and license number specified above.

Sincerely,

Nuclear Materials Safety Section  
Division of Radiation Safety  
and Safeguards





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30303

mailed 7-29-88

J. H. Martin & Sons Contractors, Inc.  
ATTN: L.E. Whiteside  
PO Box 34745  
Richmond, VA 23234

"OFFICIAL RECORD COPY"

Gentlemen:

SUBJECT: REQUEST FOR RESUBMITTAL OF RENEWAL APPLICATION

REFERENCES:

(1) Correspondence dated June 24, 1988

(2) License No. 45-17853-01

(3) Guide(s) Task FC 407-4

Guide for the preparation of applications for  
the use of Sealed Sources in Portable Gauging Devices

(4) Mail Control 252280

This refers to your correspondence (Reference 1 above) requesting the renewal of your material license (Reference 2).

Since the Nuclear Regulatory Commission issues material licenses for five year periods, the renewal application should be complete in all respects and reflect your program at the time of the renewal. Therefore, you are requested to submit a complete up-to-date application, without reference to any previously submitted information, supplying all of the information outlined in the guide (Reference 3).

We will continue our review upon receipt of the completed application, in duplicate, as indicated above. Please refer to your assigned mail control number (Reference 4) in your reply. Your current license will not expire until final action has been taken on the license renewal.

Sincerely,

Nuclear Materials Safety Section  
Division of Radiation Safety  
and Safeguards

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)  
INFORMATION FROM LTS

PROGRAM CODE: 03121  
STATUS CODE: 2  
FEE CATEGORY: 3P  
EXP. DATE: 19880731  
FEE COMMENTS: -----

LICENSE FEE TRANSMITTAL

A. REGION II

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: J. H. MARTIN & SONS CONTRACTORS, IN  
RECEIVED DATE: 880701  
DOCKET NO: 3013541  
CONTROL NO.: 252280  
LICENSE NO.: 45-17852-01  
ACTION TYPE: RENEWAL

2. FEE ATTACHED <sup>00</sup>

AMOUNT: 140  
CHECK NO.: 7678

3. COMMENTS

SIGNED  
DATE

James P. Miller  
7/5/88

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1/1)

1. FEE CATEGORY AND AMOUNT: 3P (120)

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT -----  
RENEWAL ✓  
LICENSE -----

3. OTHER -----

SIGNED  
DATE

M. H. Miller  
7/8/88

Superseded  
application!



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795 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

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U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARINA DRIVE, SUITE 210  
WALNUT CREEK, CA 94596

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RICHMOND, VIRGINIA 23234

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STORAGE @ : 6550 IRON BRIDGE ROAD, RICHMOND, VA. 23234  
0.75 MILES SOUTH OF COGBILL ROAD RICHMOND, VA.  
TEMPORARY JOB SITES IN STATES SUBJECT TO NRCS REGULATORY AUTHORITY.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

JOHN E. JOHNSON

TELEPHONE NUMBER

804-275-1670

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.

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.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR  
TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

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11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT  
ENCLOSED \$ 120.00

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PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN,  
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TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE—CERTIFYING OFFICER

*L.E. Whiteside*

TYPED/PRINTED NAME

L.E. WHITESIDE

TITLE

VICE-PRESIDENT

DATE

6-24-88

FOR NRC USE ONLY

TYPE OF FEE <i>Ren</i>	FEE LOG <i>Jul-1-II</i>	FEE CATEGORY <i>3P</i>	COMMENTS	APPROVED BY <i>H. Russell</i>
AMOUNT RECEIVED <i>\$120</i>	CHECK NUMBER <i>4638</i>			DATE <i>7/1/88</i>



5)

A) ELEMENT & MASS NUMBER

- 1) CESIUM 137
- 2) AMERICIUM 241

B) CHEMICAL AND / OR PHYSICAL FORM

- 1) SEALED SOURCE (TROXLER DWG. A-102112)
- 2) SEALED NEUTRON SOURCES (TROXLER DWG A-102451)

C) MAXIMUM AMOUNT POSSESSED

- 1) NOT TO EXCEED 10 MILLICURIES PER SOURCE
- 2) NOT TO EXCEED 50 MILLICURIES PER SOURCE

- 6) FOR MEASURING MOISTURE AND DENSITY OF CONSTRUCTION MATERIALS.
- 7) LENOARD E. WHITESIDE
- 8) THE ABOVE EMPLOYEE WILL SUPERVISE THE TRAINING OF THE TROXLER DENSITY MACHINE BEFORE THE USE OF THIS DEVICE.
- 9) THE DEVICE WILL BE STORED IN A LOCKED IN A LOCKED STORAGE AREA AND USED ONLY BY AUTHORIZED EMPLOYEES.
- 10) ALL QUALIFIED EMPLOYEES WILL WEAR A FILM BADGE FURNISHED BY R.S. LANDAUER, JR. & CO., GLENWOOD ILLINOIS 604525 DURING USE. RECALIBRATION TESTS & LEAK TESTS ARE PERFORMED AT THE SPECIFIED INTERVALS FOR THIS DEVICE.
- 11) N/A

<p>NRC Form 313 I (12-81) 10 CFR 30</p> <p style="text-align: center;">U.S. NUCLEAR REGULATORY COMMISSION</p> <p style="text-align: center;"><b>APPLICATION FOR BYPRODUCT MATERIAL LICENSE</b> INDUSTRIAL</p> <p><i>See attached instructions for details.</i></p> <p><i>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.</i></p>		<p><b>1. APPLICATION FOR:</b> (Check and/or complete as appropriate)</p> <p>a. NEW LICENSE</p> <p>b. AMENDMENT TO: LICENSE NUMBER</p> <p>c. RENEWAL OF: LICENSE NUMBER 45-17852-01</p>																															
<p><b>2. APPLICANT'S NAME</b> (Institution, firm, person, etc.)</p> <p>J.H. Martin &amp; Sons Contractors, Inc.</p> <p>TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 1-804-275-1670</p>		<p><b>3. NAME AND TITLE OF PERSON TO BE CONTACTED</b> REGARDING THIS APPLICATION</p> <p>J.H. Martin, Jr., President</p> <p>TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 1-804-275-1670</p>																															
<p><b>4. APPLICANT'S MAILING ADDRESS</b> (Include Zip Code) (Address to which NRC correspondence, notices, bulletins, etc., should be sent.)</p> <p>P.O. Box 34745 Richmond, Va. 23234</p>		<p><b>5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED</b> (Include Zip Code)</p> <p>Throughout the state of Virginia on various construction projects.</p>																															
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)																																	
<p><b>6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL</b> (See Items 16 and 17 for required training and experience of each individual named below)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 45%;">FULL NAME</th> <th style="width: 50%;">TITLE</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>J.H. Martin, Jr.</td> <td>President</td> </tr> <tr> <td>b.</td> <td>G.W. Knickerbocker</td> <td>Vice President</td> </tr> <tr> <td>c.</td> <td></td> <td></td> </tr> </tbody> </table>				NO.	FULL NAME	TITLE	a.	J.H. Martin, Jr.	President	b.	G.W. Knickerbocker	Vice President	c.																				
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(3)																																	
(4)																																	



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)	Sealed Source as per Troxler Drawing # A-102112 maximum of MCI + 10% per source	Troxler	3411F			
(2)	Sealed Source as per Troxler Drawing # 102451 maximum of 40 MCI + 10% per source	Troxler	3411B			
(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)	Leak Test Kit	Troxler Laboratories	RK-1	1 Test every 6 Months	Gamma	Not to exceed 0.005 Microcuries
(2)	N/A					
(3)	N/A					
(4)	N/A					

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10	
<input checked="" type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY Troxler Electronic Laboratories, Inc. P.O. Box 12057, Cornwallis Rd. Research Triangle Park North Carolina 27709	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

12. PERSONNEL MONITORING DEVICES		
TYPE (Check and/or complete as appropriate.) A.	SUPPLIER (Service Company) B.	EXCHANGE FREQUENCY C.
<input checked="" type="checkbox"/> (1) FILM BADGE  <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)  <input type="checkbox"/> (3) OTHER (Specify): _____	R.S. Landauer Jr., and Company Glenwood Science Park Glenwood Illinois 60425 (312) 755-7000	<input checked="" 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).)	
<input type="checkbox"/> a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC. <input checked="" type="checkbox"/> b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC. See attached sketch <input type="checkbox"/> c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC. <input type="checkbox"/> d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.	

14. WASTE DISPOSAL	
a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED N/A	
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.  Sealed Sources will be returned to manufacturer.	



# INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
  - a. Principles and practices of radiation protection.
  - b. Radioactivity measurement standardization and monitoring techniques and instruments.
  - c. Mathematics and calculations basic to the use and measurement of radioactivity.
  - d. Biological effects of radiation.
17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

N/A

## 18. CERTIFICATE

(This item must be completed by applicant)

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 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

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.

a. LICENSE FEE REQUIRED  
(See Section 170.31, 10 CFR 170)

\$110.00

(1) LICENSE FEE CATEGORY:

3L

(2) LICENSE FEE ENCLOSED: \$ 110.00

b. CERTIFYING OFFICIAL (Signature)

c. NAME (Type or print)

J.H. Martin, Jr.

d. TITLE

President

e. DATE

February 9, 1983

ITEM 15

- A. Only authorized and trained personnel shall operate the instrument.
- B. The source shall be stored in a safe position when not in use.
- C. Anyone using or transporting the instrument shall wear a film badge.
- D. All unauthorized persons shall be kept at least 15 feet from the operating area.
- E. The gauge will be given a leak test measurement at proper intervals, at least every six (6) months.
- F. All radiographic equipment shall be locked when not under the direct supervision of an approved person. All storage containers shall be physically secured to prevent removal by unauthorized personnel.
- G. A quarterly physical inventory of all sealed sources shall be conducted and a record shall be maintained for inspection.
- H. Reports from film badge service shall be maintained for inspection.
- I. Any theft or loss of material shall be reported to the appropriate state agency and within 30 days a written report will be filed giving detailed description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazard, actions taken to recover the source and procedures which will be implemented to prevent a recurrence.
- J. Any overexposure of operators exceeding the limits given in 10 CFR part 20 shall be reported.
- K. At the termination of each field use, the nuclear gauge will be transferred to its regular storage area.
- L. If physical damage occurs to the gauge, the area shall be cleared and any vehicles involved shall be retained until the extent of contamination is determined. If the gauge is damaged, the Department of Health and Troxler Electronic Laboratories, Inc. shall be notified. The damaged gauge shall be stored in a metal drum filled with wet sand until a leak test can be performed.
- M. In case of accident or loss of a sealed source, notification shall be made to the following:

- A. Company Radiological Safety Officer
- B. NRC Regional Office
- C. State Health Department
- D. Local Authorities, Fire Department, Police
- E. Troxler Electronic Laboratories

ITEM 16

J.H. Martin, Jr. and G.W. Knickerbocker received the following training:  
Troxler Electronic Laboratories, Inc.  
Standard two (2) day training  
Training completed October 21, 1977

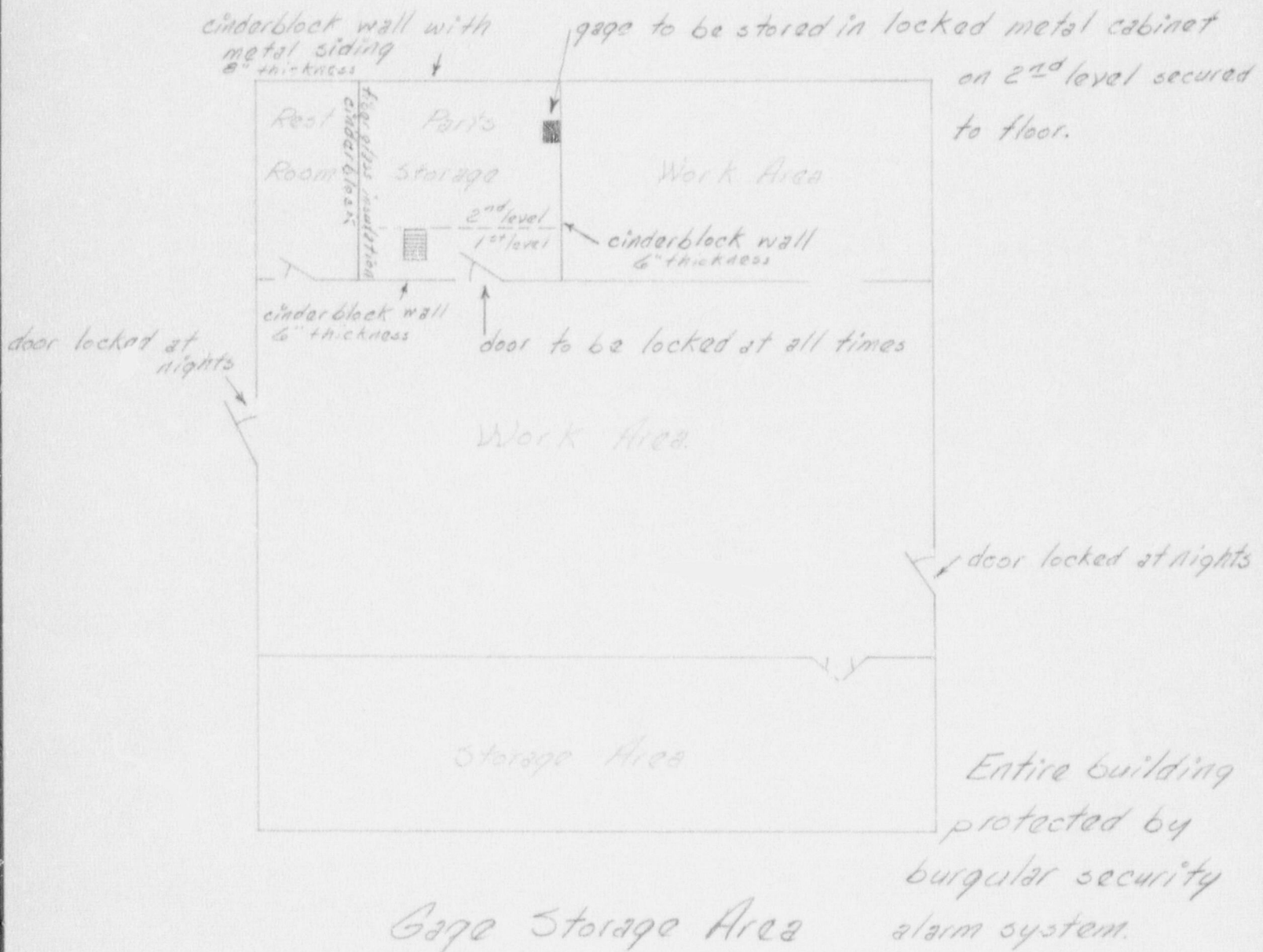
**J. H. MARTIN and SONS, INCORPORATED**  
**CONTRACTORS**

Grading, Clearing, Storm Sewer Installations

TELEPHONE 275-1670

ITEM #13

Gauge to be stored in a locked metal cabinet secured to prevent removal by unauthorized personnel. Storage room is to be kept locked at all times. Building itself will be locked at nights.



J. H. Martin Company Shop Area

12001



CERTIFICATE OF DISPOSITION OF MATERIALS

(All Blocks MUST BE Completed)

LICENSEE NAME AND ADDRESS

J.H. Martin & Sons Contractors, Inc.  
P.O. Box 34745  
Richmond, Virginia 23234

LICENSE NUMBER

45-17852-01

LICENSE EXPIRATION DATE

April 30, 1983

The licensee or any individual executing this certificate on behalf of the licensee certify that: (Check and/or complete appropriate item(s) below.)

- ☐ 1. No materials have been procured by licensee. N/A
- ☐ 2. All materials procured and/or possessed by licensee under license number shown above, have been transferred to: N/A
- \_\_\_\_\_
- which has NRC license number: \_\_\_\_\_
- ☐ 3. All materials procured and/or possessed by licensee under license number shown above have been transferred to: N/A
- \_\_\_\_\_
- which has license number: \_\_\_\_\_ issued by \_\_\_\_\_
- an Agreement State pursuant to Section 274 of the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974.
- ☐ 4. Materials have been disposed of in the following manner. (Describe specific disposal procedures — if additional space is needed, use reverse side.) N/A

PLEASE RETURN TO:

Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

CERTIFYING OFFICIAL

SIGNATURE

DATE

February 9, 1983

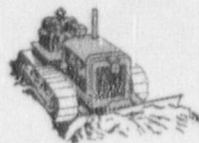
12804

# *J. H. Martin and Sons*

— CONTRACTORS, INC. —

6550 IRON BRIDGE ROAD

RICHMOND, VIRGINIA 23234



Phone 275-1670

1061

February 28, 1978

U. S. Atomic Energy Commission  
Directorate of Licensing  
Washington, D. C. 20545

Attention: Mr. Fred Combs:

Re: Control No. 91053

Dear Mr. Combs:

Reference our telephone conversation, of February 17, 1978, regarding our application for Radio Active Material License we submit the following information which we hope will clarify item 14 of the application.

The maintenance of the Troxler Gage will be performed by myself or other personnel who have been trained in the correct and safe procedure of this maintenance operation. The source rod will only be exposed during the cleaning of the shield cavity. The radiation dose rate at the entrance to the cavity is approximately 300 nrem per hour and the cleaning will take no more than five minutes. During all other phases of the maintenance operation the radiation source will be covered by the plate shield on the bottom of the gage.

Transportation to and from the job site will be accomplished only by those persons who have been trained in the proper handling of the Troxler Gage. The gage will be transported in a locked wooden case in the back of a pickup truck so that the driver and riders will not be directly exposed to the gage. As soon as the density determination has been made the gage will be returned its locked storage case at our office.

During both maintenance and transportation of the Troxler Gage all involved personnel will be wearing film badges that will be checked monthly by the R. S. Landauer, Jr. Company. All precautions will be taken by trained personnel to make the transportation and maintenance operations quite safe.

If we can be of further assistance concerning the processing of our license application please feel free to contact us.

Sincerely,

Richard W. Givens  
Engineer

COPIES SENT TO OFF. OF  
INSPECTION AND ENFORCEMENT

13 - Gage to be stored in a locked metal cabinet secured to prevent removal by unauthorized personnel. Storage room is to be kept locked at all times. Building itself will be locked at night.

14 - Only authorized and trained personnel shall operate the instrument.

The source shall be stored in the safe position when not in use.

Anyone using or transporting the instrument shall wear a film badge.

All unauthorized persons shall be kept at least 15 feet from the operating area.

The source lock will be kept in place when the instrument is not being used.

The gage will be given a leak test measurement at proper intervals, at least every six (6) months.

All radiographic equipment shall be locked when not under the direct supervision of an approved person. All storage containers shall be physically secured to prevent removal by unauthorized personnel.

A quarterly physical inventory of all sealed sources shall be conducted and a record shall be maintained for inspection.

Reports from film badge service shall be maintained for inspection.

Any theft or loss of material shall be reported to the appropriate state agency and within 30 days a written report will be filed giving detailed description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazard, actions taken to recover the source and procedures which will be implemented to prevent a recurrence.

Any over exposure of operators exceeding the limits given in 10CFR part 20 shall be reported.

At the termination of each field use the nuclear gage will be transferred to its regular storage area.

If physical damage occurs to the gage the area shall be cleared and any vehicles involved shall be retained until the extent of contamination is determined. If the gage is damaged the Department Of Health and Troxler Electronic Laboratories shall be notified. The damaged gage shall be stored in a metal drum filled with until a leak test can be performed.

In case of an accident or loss of a sealed source notification shall be made to the following:

Company Radiological Safety Officer  
NRC Regional Office  
State Health Department  
Local Authorities - Fire Dept. and Police  
Troxler Electronic Laboratories

15 - Source shall be returned to manufacturer.

81053

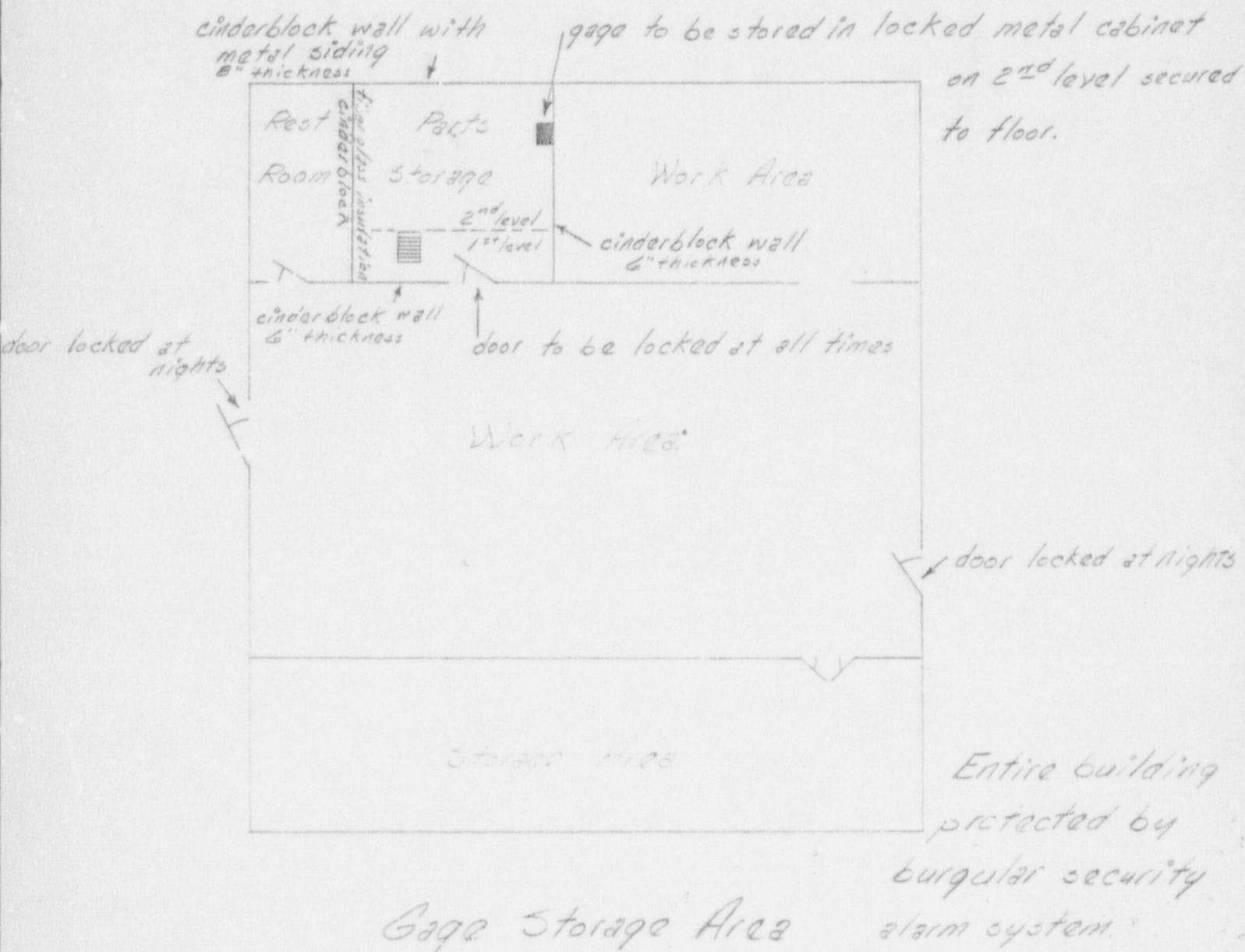


J. H. MARTIN and SONS, INCORPORATED  
CONTRACTORS

Grading, Clearing, Storm Sewer Installations

~~3165 Gage Road~~  
RICHMOND, VIRGINIA 23234

TELEPHONE 275-1670



J. H. Martin Company Shop Area

91053

Form AEC-313  
(2-73)  
10 CFR 30

UNITED STATES ATOMIC ENERGY COMMISSION  
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved  
Budget Bureau No. 36-R0027

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Materials Branch, Directorate of Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20, and the license fee provisions of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in Item 16 and the appropriate fee enclosed. (See Note in Instruction Sheet).

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital person, etc. Include ZIP Code and telephone number.)

J. H. Martin & Sons Contractors, Inc.  
6550 Iron Bridge Road  
Richmond, Va. 23234

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from (a), include ZIP Code.)

Throughout the state of Virginia on  
various construction projects

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Construction Department

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

None

4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)

J. H. Martin, Jr. Vice Pres.  
G. W. Knickerbocker, Estimator  
Richard W. Givens, Engineer

5. RADIATION PROTECTION OFFICER. (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)

Richard W. Givens

6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)

Cesium 137 and  
Americium 241  
Beryllium  
License one (1) gage only

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

Sealed Source as per Troxler drawing #A-102112  
Maximum of Ci  $\pm$  10% per source  
8 And  
Sealed source as per Troxler Drawing #A-102451  
Maximum of 40mCi  $\pm$  10% per source

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

For use in a Troxler Model 3411 Compac surface moisture density gauge

Applicant.....  
Check No. 119.....  
Amount. 36-50.....  
Date of Check. 11-2-77.....  
Date Check Rec'd. 11-10-77.....  
Received By. Weiss.....

RECEIVED BY LFMB  
Date. 11-10-77  
Time. 2:00 PM  
By. Weiss  
From. 81053  
By to. 81053  
Action Compl. 11-10-77



## TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

B. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection	Troxler Electronic Labs., Inc.		Yes No	Yes No
b. Radioactivity measurement standardization and monitoring techniques and instruments	Standard two (2) day training		Yes No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity			Yes No	Yes No
d. Biological effects of radiation			Yes No	Yes No

## 9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
		None		

## 10. RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary.)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm <sup>2</sup> )	USE (Monitoring, surveying, measuring)
Commonwealth of Virginia Health Department Radiation Detection devices Type II & Type III Alpha, beta, and gamma detectors on portable service units					

## 11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

Not Known

## 12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

R. S. Landauer, Jr. Co. Quarterly Exchange  
Glenwood Science Park, Glenwood Illinois 60425 312/755-7000

## INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No	
14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, service, maintenance and repair of the source.	
15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.	

## CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.	
License Fee Category: \$ 50.00	Applicant named in item 1
Fee Enclosed \$ 50.00	By: J. H. Martin Jr.
Date: 4/2/77	V. Bus
	Title of certifying official

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.