

NRC FORM 313

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO 3180-0120

EXPIRES 7/31/98

(7-88)  
10 CFR 30.32, 33,  
34, 35, 36, 39 and 40

Estimated burden per response to comply with this information collection request: 7 hours. Submitting of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to the Information and Records Management Branch (7-4 F33) U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001 and to the Paperwork Reduction Project (3150-0120) Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number.

## 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.

## APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U. S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

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:

LICENSING ASSISTANT SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U. S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19408-1415

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

NUCLEAR MATERIALS LICENSING SECTION  
U. S. NUCLEAR REGULATORY COMMISSION, REGION 6  
101 MARNETTA STREET, NW, SUITE 2800  
ATLANTA, GA 30323-0189

## IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION  
U. S. NUCLEAR REGULATORY COMMISSION, REGION III  
801 WARRENVILLE RD  
LIBLE, IL 60532-4361

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,  
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,  
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO

NUCLEAR MATERIALS LICENSING SECTION  
U. S. NUCLEAR REGULATORY COMMISSION, REGION IV  
811 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 78011-8084

LL 304-79  
030-34837  
03121

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 JURISDICTIONS.

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

A NEW LICENSE

B AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

C RENEWAL OF LICENSE NUMBER \_\_\_\_\_

## 2 NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

Geo-Technology Associates, Inc.  
139 N. Main Street, Suite 100A  
Bel Air, Maryland 21014

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

341 East Main Street, Newark, DE 19711, and  
temporary job sites anywhere in the United States  
where NRC maintains jurisdictions.

## 4 NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Christopher M. Standish

## TELEPHONE NUMBER

410/879-2609

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 EXPERIENCE

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

## 9 FACILITIES AND EQUIPMENT

## 10 RADIATION SAFETY PROGRAM

## 11 WASTE MANAGEMENT

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

FEE CATEGORY 3P

AMOUNT  
ENCLOSED \$ 730.00

## 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, 36, 39 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 FEBRUARY 25, 1948 (42 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.

## CERTIFYING OFFICER - TYPE PRINTED NAME AND TITLE

David A. Quoranta, CPA Treasurer

## SIGNATURE

## DATE

9/9/98

## FOR NRC USE ONLY

| TYPE OF FEE | FEE LOG | FEE CATEGORY | AMOUNT RECEIVED | CHECK NUMBER | COMMENTS |
|-------------|---------|--------------|-----------------|--------------|----------|
|             |         |              | \$              |              |          |

## APPROVED BY

## DATE

1 6082

SEP 11 1998

## ITEMS 5 & 6: MATERIALS TO BE POSSESSED AND PROPOSED USES

| YES  | NO | RADIOISOTOPE    | MANUFACTURER/<br>MODEL NO.  | QUANTITY  | MOST<br>COMMON USE                       | SPECIFY<br>OTHER USES<br>NOT LISTED<br>ON SSD<br>CERTIFICATE                           |
|--|----|-----------------|---|---|--|--|
| X  |    | Cesium-137      | Sealed sources in compatible gauges as specified in Sealed Source and Device Registration Sheet         | Not to exceed maximum activity per source as specified in Sealed Source and Device Registration Sheet | Measure Physical Properties of Materials | <input type="checkbox"/> Not applicable<br>-----<br><input type="checkbox"/> Uses are: |
| X  |    | Americium-241   | Sealed neutron sources in compatible gauges as specified in Sealed Source and Device Registration Sheet | Not to exceed maximum activity per source as specified in Sealed Source and Device Registration Sheet | Measure Physical Properties of Materials | <input type="checkbox"/> Not applicable<br>-----<br><input type="checkbox"/> Uses are: |
|  | X  | Californium-252 | Sealed neutron sources in compatible gauges as specified in Sealed Source and Device Registration Sheet | Not to exceed maximum activity per source as specified in Sealed Source and Device Registration Sheet | Measure Physical Properties of Materials | <input type="checkbox"/> Not applicable<br>-----<br><input type="checkbox"/> Uses are: |
|  | X  | Other (specify) |   |   |  |  |
| <b>FINANCIAL ASSURANCE REQUIRED AND EVIDENCE OF FINANCIAL ASSURANCE PROVIDED</b> |    |                 |   |   |  |  |

**ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES  
AND EQUIPMENT, RADIATION SAFETY PROGRAM,  
AND WASTE DISPOSAL**

| ITEM NO. AND TITLE   | SUGGESTED RESPONSE   | YES   | ALTERNATIVE PROCEDURES ATTACHED |
|--|--|---|---------------------------------|
| 7. <b>INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE - RADIATION SAFETY OFFICER</b><br><br>Name: <u>Christopher Standish</u> | Before obtaining licensed materials, the proposed <i>RSO</i> will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 1, dated May 1997.<br><br>AND<br>Before being named as the <i>RSO</i> , future <i>RSOs</i> will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 1, May 1997. | <input checked="" type="checkbox"/>                             | [ ]                             |
| 8. <b>TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</b>  | Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, dated May 1997.  | <input checked="" type="checkbox"/>                             | [ ]                             |
| 9. <b>FACILITIES AND EQUIPMENT</b>   | No information needs to be submitted in response to this item; key issues are addressed under "Radiation Safety Program - Public Dose" and "Radiation Safety Program - Operating and Emergency Procedures".  | Separate Item 9 Response Need Not Be Submitted With Application |                                 |
| 10. <b>RADIATION SAFETY PROGRAM - AUDIT PROGRAM</b>  | The applicant is <u>not</u> required to, and should not, submit its audit program to the <i>NRC</i> for review during the licensing phase.   | Need Not Be Submitted With Application                          |                                 |
| 10. <b>RADIATION SAFETY PROGRAM - TERMINATION OF ACTIVITIES</b>  | The applicant is <u>not</u> required to submit a response to the termination of activities section during the initial application. However, when the license expires or at the time the licensee ceases operations, <i>NRC Form 314</i> must be submitted.   | Need Not Be Submitted With Application                          |                                 |
| 10. <b>RADIATION SAFETY PROGRAM - SURVEY INSTRUMENTS</b>   | We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program - Instruments" in NUREG-1556, Vol. 1, dated May 1997, in the event of an incident.   | kk  | [ ]                             |
| 10. <b>RADIATION SAFETY PROGRAM - MATERIAL RECEIPT AND ACCOUNTABILITY</b>  | Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.  | kk  | [ ]                             |
| 10. <b>RADIATION SAFETY PROGRAM - OCCUPATIONAL DOSIMETRY</b>   | Either we will maintain, for inspection by <i>NRC</i> , documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry processed and evaluated by a <i>NVLAP</i> -approved processor that is exchanged at a frequency recommended by the processor.   | <input checked="" type="checkbox"/>                             | [ ]                             |
| 10. <b>RADIATION SAFETY PROGRAM - PUBLIC DOSE</b>  | The applicant is <u>not</u> required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.  | Need Not Be Submitted With Application                          |                                 |

| ITEM NO. AND TITLE  | SUGGESTED RESPONSE  | YES  | ALTERNATIVE PROCEDURES ATTACHED   |
|---|---|--|---|
| 10. RADIATION SAFETY PROGRAM - OPERATING & EMERGENCY PROCEDURES | <p>We will implement and maintain the operating and emergency procedures in <i>Appendix H</i> of NUREG-1556, Vol. 1, dated May 1997, and provide copies of these procedures to all gauge users and at each job site.</p> <p style="text-align: center;">OR</p> <p>Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures" in NUREG-1556, Vol. 1, dated May 1997.</p> | <input checked="" type="checkbox"/><br><br><br><br><br><br><br><br><br><br><input type="checkbox"/>            | <input type="checkbox"/>  |
| 10. RADIATION SAFETY PROGRAM - LEAK TEST                        | <p>Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.</p>             | <input checked="" type="checkbox"/>  | <input type="checkbox"/><br>The information in <i>Appendix J</i> supporting a request to perform leak testing and sample analysis is attached.  |
| 10. RADIATION SAFETY PROGRAM - MAINTENANCE                      | <p><u>ROUTINE CLEANING &amp; LUBRICATION</u></p> <p>We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.</p> <p><u>NON-ROUTINE MAINTENANCE</u></p> <p>We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.</p>                           | <input checked="" type="checkbox"/><br><br><br><br><br><br><br><br><br><br><input checked="" type="checkbox"/> | <input type="checkbox"/><br><br><br><br><br><br><br><br><br><br><input type="checkbox"/><br>The information listed in <i>Appendix G</i> supporting a request to perform non-routine maintenance in-house is attached. |
| 10. RADIATION SAFETY PROGRAM - TRANSPORTATION                   | <p>The applicant is <u>not</u> required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.</p>  | Need Not Be Submitted With Application   |   |
| 11. WASTE MANAGEMENT - GAUGE DISPOSAL & TRANSFER                | <p>The applicant is <u>not</u> required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.</p>  | Need Not Be Submitted With Application   |   |