

RECEIVED  
SECTION 1

'05 MAR 31 APPENDIX A

<p>NRC FORM 313 (8-1999) 10, CFR 30, 32, 33 34, 35, 36, 39 and 40</p>	<p>U. S. NUCLEAR REGULATORY COMMISSION</p>	<p>APPROVED BY OMB: NO. 3150-0120</p>	<p>EXPIRES 08/31/2002</p>
<p><b>APPLICATION FOR MATERIAL LICENSE</b></p>		<p>Estimated burden per response to comply with this mandatory information collection request: 7.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-8 EB), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to: b51@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, AEOB-1C202 (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</p>	

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.

<p>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</p> <p>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 19406-1415</p> <p>ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: SAM NUNN ATLANTA FEDERAL CENTER U.S. NUCLEAR REGULATORY COMMISSION, REGION II 81 FORSYTH STREET, S.W. SUITE 23785 ATLANTA, GEORGIA 30303-8931</p> <p>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.</p>	<p>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 LISLE, IL 60532-4351</p> <p>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 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-8084</p> <p style="text-align: center; font-size: 2em;">03021053 X</p>
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<p>1. THIS IS AN APPLICATION FOR (Check appropriate item):  <input type="checkbox"/> A NEW LICENSE  <input type="checkbox"/> B AMENDMENT TO LICENSE NUMBER  <input checked="" type="checkbox"/> C RENEWAL OF LICENSE NUMBER <u>29-23425-01</u></p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code):          Underwood Engineering          3 South Black Horse Pike          Mt. Ephraim, NJ 08059</p>
<p>3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:          Underwood Engineering          3 South Black Horse Pike          Mt. Ephraim, NJ 08059          Temporary Job Sites</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION:          Patricia Bemenderfer          TELEPHONE NUMBER:          856-933-1818</p>

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.

<p>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.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED</p>
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</p>
<p>9. FACILITIES AND EQUIPMENT</p>	<p>10. RADIATION SAFETY PROGRAM</p>
<p>11. WASTE MANAGEMENT</p>	<p>12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)          FEE CATEGORY: _____ AMOUNT ENCLOSED \$: _____</p>

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, 38, 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 JUNE 25, 1948 82 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 - TYPED/PRINTED NAME AND TITLE: Director T+I RSO.	SIGNATURE: 	DATE: 3-30-05
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FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
APPROVED BY			\$	DATE	

**ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND PROPOSED USES**

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
X		Cesium-137 AEA Technology  Troxler  Humboldt	Sealed source manufacturer or distributor and model number: <u>X.1218, X.8</u>  Device manufacturer or distributor and model number: <u>3411-B, 3430</u> <u>3440, 4640</u>  <u>5001 Series</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: <u>To</u> <u>measure</u> <u>Density</u>	<input type="checkbox"/> Not applicable  <input type="checkbox"/> Uses are:  (Submit safety analysis supporting safe use)
X		Americium-241 AEA Technology  Troxler  Humboldt	Sealed source manufacturer or distributor and model number: <u>X.1, X.1/2</u>  Device manufacturer or distributor and model number: <u>3411-B, 3430</u> <u>3440</u>  <u>5001 Series</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: <u>To</u> <u>measure</u> <u>moisture</u>	<input type="checkbox"/> Not applicable  <input type="checkbox"/> Uses are:  (Submit safety analysis supporting safe use)

**Item 7.** The individual responsible for the Radiation Safety Program is Patricia M. Bemederfer. She has successfully completed one of the training courses described in the 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, Rev. 1, dated November 2001. In addition, future RSO's will have completed one of the training courses described in the above mentioned section.

**Item 8.** The individuals for working in or frequenting restricted areas will have, before using licensed material, successfully completed one of the training courses described in the Criteria in the section entitled "Training for Individuals Working In or Frequently Restricted Areas" in NUREG-1556-Vol. 1, Rev.1 "Consolidated Guidance about materials licenses: program specific guidance about portable gauge licenses" dated November 2001.

**Item 9.** Facilities and Equipment - 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".

**Item 10.** Radiation Safety Program - Audit Program: Need not be submitted with Application.

Radiation Safety Program - Termination of Activities: Need not be submitted with Application.

Radiation Safety Program - Survey Instruments: We will possess and use a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program-Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

Radiation Safety Program - Occupational Dosimetry: We will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10% of the allowable limits in CFR Part 20.

Radiation Safety Program - Public Dose: Need not be submitted with Application.

Radiation Safety Program - Operating & Emergency Procedures: We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1 dated November 2001, and provide copies of these procedures to all gauge users and at each job site.

Radiation Safety Program - Leak Test: Leak test 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 the NRC or an Agreement State to provide leak test kits to other licensees and in according to the kit supplier's instructions.

Radiation Safety Program - Maintenance: We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendation and instructions. In addition, 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.

Radiation Safety Program - Program Transportation: Need not be submitted with application.

**Item 11.** Waste Management - Gauge Disposal & Transfer: Need not be submitted with application.