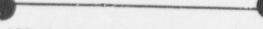
NRC FORM 313 (9-88) 10 CFR 30, 32, 33, 34 35 and 40

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U.S. NUCLEAR REQULATORY COMMISSION APPROVED BY OME 3180-0120 Expires: \$ 30-90

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 IF YOU ARE LOCATED IN U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NWSS WASHINGTON, DC 20656 ILLINDIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OR:O, OR WISCONSIN, SEND APPLICATIONS TO: ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING *** ON 799 ROOSEVELT ROAD GLEN ELLYN, IL 80137 CONNECTICUT. DF:AWARE. DISTRICT OF COLUMBIA. MAINE. MARYLAND. MABSACHUBETTS. NEW HAMPSHIRE. NEW JERSEY. NEW YORK, PENNSYLVANIA. RHOOSE ISLAND, OR YERMONY, SEND APPLICATIONS TO: ARKANSAS, COLORADO, IDAHO, KAHSAS, LOUISIANA, MONTANA, MISRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, ROUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION I NUCLEAR MATERIALS SAFETY SECTION B 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406 U.S. NUCLEAR REGULATORY COMMISSION REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVG. SUITE: 000 ARLINGTON, TX 78011 ALABAMA, PLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND PURSERSIONS IN THE PACIFIC, SEND APPLICATIONS TO U.S. NUCLEAR REGULATORY COMMISSION, REGION II NUCEAR MATERIALS SAFETY SECTION 101 MARIETTA STREET, SUITE 2800 ATLANTA, GA 2022 U.S. NUCLEAR REGULATORY COMMISSION, REGION V NUCLEAR MATERIALS SAFETY SECTION 1480 MARIA LANE, SUITE 210 WALNUT CREEK, CA MIGHE PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REQULATORY 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 appropriets from 2. NAME AND MAILING ADDRESS OF APPLICANT (Include 24) Code! A. NEW LICENSE DAMES & MOORE B. AMENDMENT TO LICENSE NUMBER __ 2360 MARYLAND ROAD C. RENEWAL OF LICENSE NUMBER . WILLOW GROVE, PA 19090 3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED AT ADDRESS LISTED IN ITEM 2 AND AT TEMPORARY JOP SITES THROUGHOUT THE UNITED STATES WHERE THE U.S. NUCLEAR REGULATORY COMMISSION MAINTAINS JURISDICTION OVER THE USE OF BY-PRODUCT MATERIALS. 6. NAME OF PERSON TO BE CONTACTED A TOUT THIS APPLICATION TELEPHONE NUMBER ALAN SIEGEL (215)657-5000 SUBMIT ITEMS 6 THROUGH 11 ON SX x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. RADIOACTIVE MATERIAL Element and mess number, b. chemisch will be possessed at any one time hemical and/or physical form, and c. maximum amount 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. INDIVIDUALIS RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. 9. FACILITIES AND EQUIPMENT 10. RADIATION SAFETY PROBRAM 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) 11. WASTE CANAGEMENT AMOUNT ENGLOSED \$ FEE CATEGORY 3 P 13. CERTIFICATION. (Must be compressed by compressed the APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS FREFABED IN COMPORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 23, 34, 35, AND 40 AND THAT A: L INFORMATION CONTAINED HEREIN, IS TRUE AND COMPRECT TO THE BRET OF THEIR KNOWLEDGE AND SELIEF WARRING : 18 U.S.C. SECT: ON 1001 ACT OF JUNE 25, 1946, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OF REPRESENTATION TO A 12 Y OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OF REPRESENTATION. SIGNATURE TOERTIFYING OFFICER TYPED/PRINTED NAME DATE ALAN SIEGEL ASSISTANT GEOLOGIST 2/14/89 FOR NRC USE ONLY TYPE OF FEE FEE CATEGORY PEE LOG 8907270285 880717 REG1 LIC30 37-28353-01 PD AMOUNT RECEIVED CHECK NUMBER PDR 06300 APPROVED BY imberlo

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ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 7.5 HRS. FORWARD COMMENTS REGGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P.630), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20685, AND TO THE OFFICE OF INFORMATION AND REGULATORY AFFAIRS, OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20663.

INFORMATION REQUIRED FOR ITEMS 5, 6, 7, 8, 9, and 11 (APPLICATION FOR MATERIAL LICENSE)

ITEM 5. RADIOACTIVE MATERIAL

5a. Radionuclei 5b. Form 5c. Maximum Amount

CS-137 Special Form Not to exceed 9 mCi

per source/per gauge. Not to exceed 45 mCi

Total.

AM-241:Be Special Form Not to exceed 44 mCi

per source/per gauge. Not to exceed 220 mCi

Total.

ITEM 6. PURPOSES FOR WHICH LICENSED MATERIAL WILL BE USED

To be used in Troxler Model 3400 Series Surface Moisture/Density Gauges.

THEIR TRAINING AND EXPERIENCE

Alan Siegel is radiation safety officer and has attended the Troxler Nuclear Gauge Training Course. He also has approximately 6 months field experience.

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

Each operator will attend the Troxler Training Seminar.
Alan Siagel will keep a copy of each individuals training certificate on file.

ITEM 9. FACILITIES AND EQUIPMENT

OUTDOOR STORAGE SHED

15' X

10' X

FIGURE NOT DRAWN TO SCALE

X TRUYLER LOCATION

ITEM 10. RADIATION SAFETY PROGRAM

Please Refer to Attachment A of this application.

ITEM 11. WASTE MANAGEMENT

Disposal of radioactive material is very strictly enforced. Basically, you can transfer the gauge to another licensed user, a licensed burial ground, or back to the manufacturer.

ATTACHMENT A INFORMATION REQUIRED FOR ITEM 10 (APPLICATION FOR MATERIAL LICENSE) Radiation Safety Program RADIATION SAFETY OFFICER A. (Name of individual listed in item 7) has been designated as the company Radiation Safety Officer and will assume the duties and responsibilities that include the following: 1. To ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to-date. 2. To ensure that the equipment has been leak tested every six (6) months and that the leak test is performed in the manner prescribed by the equip ent manufacturer. 3. To ensure that the use of the equipment is only by individuals that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring badges when utilizing the equipment. 4. To maintain the records as required by the Nuclear Regulatory Commission. These records shall include personnel quarterly exposure records, leak test reports and training certificates for all operators. 5. To insure that the equipment is properly secured against unauthorized removal at all times, especially when it is not in use. The RSO will have the keys to the gauge's storage room only. 6. To serve as a point of contact and give assistance in case an emergency such as damaged equipment or theft. At that point the NRC and Troxler Electronics will be notified. 7. To insure that all users have read and understand the radiation safety operating and emergency procedures as directed by the Radiation Safety Officer and Troxler Electronics. 8. To post "Caution Radioactive Material" on the storage location, along with NRC Form #3 "Notice to Employees" nearby in a visible area. 9. To conduct a written six (6) month inventory of all nuclear gauges, and kept on file for inspection. OPERATING PROCEDURES A. Transportation of Equipment 1. All possible means shall be provided to ensure that the

equipment is fully secured in the transporting vehicle and when transporting in an enclosed vehicle, keep the gauge in the trunk or rear compartment area so as to limit the exposure rate to a minimum. The vehicle will also be locked at all times. When transporting in an open bed vehicle, the gauge should be securely fastened and looked to the truck bed. 2. The gauge will be transported in the Troxler transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case. A copy of the U.S. D.O.T. transport package certification will be kept with the transporter. 3. At all times during transport, the transporter (operator) will also have a properly completed Bill of Lading for each gauge, Source Certificate, Personal ID. and a copy of the Transport Package Certification. B. Utilization Procedures: 1. A utilization log book will be used to control the gauges whereabouts at all times - signing it out and back in when returning from the field. 2. When the gauge is in the field, we will maintain control over the gauge at all times. The gauge will never be left unattended, as this type of negligence has led to stolen or damaged equipment. 3. When not making measurements, the gauge will be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge will be properly used as directed by Troxler Electronics. This will maintain any radiation exposure below the acceptable limits. When recharging the gauge, it will be kept in the locked storage room. Troxler Electronies 4. Uhen using the equipment, we will wear fine the Annual . TLD badge that has been assigned to the specific operator. These badges will monitor both gamma and neutron radiation with quarterly exchange frequency and reports examined for unusually high dosages. Proper measures will be taken to correct this type of situation. C. MAINTENANCE and LEAK TEST PROCEDURES 1. Periodic maintenance will include cleaning the gauge, at which point TLD badges will be worn. 2. No maintenance will be performed in which the radioactive source is removed from the gauge. Troxler Electronics will conduct source removal procedures only.

3. Leak tests will be done every 6 months using the Troxler Model 3880 kit, following the instructions as outlined within the kit. TLD badges will be worn. EMERGENCY PROCEDURES

A. In the event of physical damage to a gauge, the following will be done.

1. Immediately cordon off an area around the gauge of at least 15 feet.

2. If a vehicle is involved, it will be stopped until the extent of contamination, if any, can be established.

3. A visual inspection of the gauge will be made to determine if the source housing and/or shielding has been damaged.

4. At the earl est possible time, when the situation is

- 4. At the earliest possible time, when the situation is under control, we will contact our Radiation Safety Officer at (phone #). We will describe the present conditions and follow his instructions.
- B. In the event the gauge is lost or stolen, we will immediately notify the RSO, who in turn will contact the NRC and Troxler Electronics.

A COPY OF THIS RADIATION SAFETY PROGRAM WILL BE KEPT WITH THE GAUGE AT ALL TIMES FOR REFERENCE WHEN NEEDED.

110302

8 E I	WEENS		: (FOR LFMS USE) : INFORMATION FROM LTS
LICENSE FEE MANAGEMENT BRANCH, ARM HND REGIONAL LICENSING SECTIONS		PROGRAM CODE: STATUS CODE: 3 FEE CATEGORY: EXP. DATE: 0 FEE COMMENTS:	
LIC	ENSE FEE TRANSMITTAL		
Δ.	REGION		
7.	APPLICATION ATTACHED APPLICANT/LICENSEE: RECEIVED DATE: DOCKET NO: CONTROL NO.: LICENSE NO.: ACTION TYPE:	893217 3031025 110302	
2.	FEE ATTACHED AMOUNT: #230.00 CHECK NO.: 06300	3	
3.	COMMENTS		
		SIGNED DATE	R. J. Brown.
			WHEN MILESTONE 03 IS ENTERED /
1.	FEE CATEGORY AND AMOU	INT: 3P	
2.	CORRECT FEE PAID. AP AMENDMENT RENEWAL LICENSE	PLICATION MAY	BE PROCESSED FOR:
3.	OTHER		
		SIGNED	& Kimbole