

NRC FORM 313

(4-2004)

10 CFR 30, 32, 33,

34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

Estimated burden per response to comply with this mandatory collection request: 7 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 and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollect@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (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, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

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:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

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 BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-4005

L 28530

030 36816

03121

(29-28530-02)

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)

SCHOOR DEPRIMA
200 STATEWAY 9
P.O. Box 900
MANALAPAN, NJ 07726-0900

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

200 CAMPUS DRIVE
MARLBORO, NJ 07746

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

MICHAEL BYLE

TELEPHONE NUMBER

(32) 577-9000

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. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

AMOUNT
ENCLOSED \$

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 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

MOVSTAF A. GOUDA

SIGNATURE

Mustafa A. Gouda

DATE

11/3/05

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

AMOUNT RECEIVED

CHECK NUMBER

COMMENTS

APPROVED BY

DATE

136302

5. Radio Active Material – Sealed Sources and Devices

a. Element and mass number	b. Chemical and/or physical form	c. Maximum amount that will be possessed at on time
A. Cesium-137	Sealed Source Troxler Dwg. A-102112	No single Source to exceed 9mCi
B. Americium -241	Sealed source Troxler Dwg. A-102451	No single source to exceed 44 mCi
C. Cesium-137	Sealed Source Humboldt 2200064	Not to exceed 11 millicuries per source
D. Americium-241:Be	Sealed Source Humboldt 2200067	Not to exceed 44 millicuries per source

6. Purposes for which licensed material will be used.

Source (as outlined in item 5 above)	
A.	To be used in Troxler model 3400 series gauges and Troxler model 4640 series gauges for measurement of physical properties of materials
B.	To be used in Troxler model 3400 series gauges for measurement of physical properties of materials
C.	For use in Humboldt Scientific, Inc. Model 5001 Series Compaction Control Gauges to measure the moisture content and density of materials

7. Individual Responsible for Radiation Safety Program and Their Training Experience

Eric DeRicco is the proposed Radiation Safety Officer (RSO). Before obtaining licensed materials the proposed RSO will have successfully completed Troxler's Nuclear Gauge Safety Training Class or Troxler's Radiation Safety Officer Training Class.

Before being named as the RSO, future RSO will have successfully completed Troxler's Nuclear Gauge Safety Training Class or Troxler's Radiation Safety Officer Training Class.

8. Training for Individuals Working in or Frequenting Restricted Areas

Before using licensed materials, all individuals will have successfully completed Troxler's Nuclear Gauge Safety Training Class.

9. Facilities and Equipment

Licensed materials will be stored in a secured area meeting the public dose requirements. The storage area will be located in a locked room within an unoccupied secure storage area.

10. Radiation Safety Program

10.1. **Audit Program:** No response required.

10.2. **Termination of Activities:** No response required.

10.3. **Radiation Detection Instruments:** 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 for use in the event of an incident involving the gauge. The survey meter will satisfy the following criteria:

- be capable of detecting gamma radiation;
- be checked for functionality before use.

10.4. **Material Receipt and Accountability:** 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.

10.5. **Occupational Dosimetry:** All gauge users will be provided with personnel monitoring devices supplied by a processor that is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and exchanged at the frequency recommended by the processor. All personnel using the gauges will wear a personnel monitoring device such as a TLD badge, to measure radiation exposure when using or transporting Gauges.

10.6. **Public Dose:** Response not required

10.7. **Operating & Emergency Procedures:** We will implement and maintain the following operating and emergency procedures

1. If personnel dosimetry is provided:
 - i. Always wear your assigned thermo-luminescent dosimeter (TLD) or film badge when using the gauge;
 - ii. Never wear another person's TLD or film badge;
 - iii. Never store your TLD or film badge near the gauge.
2. Before removing the gauge from its place of storage, ensure that, where applicable, each gauge source is in the fully shielded position and that in gauges with a movable rod containing a sealed source, the source rod is locked (e.g., keyed lock, padlock, mechanical control) in the shielded position. Place the gauge in the transport case and lock the case.
3. Sign out the gauge in a log book (that remains at the storage location) including the date(s) of use, name(s) of the authorized users who will

be responsible for the gauge, and the temporary job site(s) where the gauge will be used.

4. Block and brace the gauge to prevent movement during transport and lock the gauge in or to the vehicle. Follow all applicable Department of Transportation (DOT) requirements when transporting the gauge.
5. Use the gauge according to the manufacturer's instructions and recommendations.
6. Do not touch the unshielded source rod with your fingers, hands, or any part of your body.
7. Do not place hands, fingers, feet, or other body parts in the radiation field from an unshielded source.
8. Unless absolutely necessary, do not look under the gauge when the source rod is being lowered into the ground. If you must look under the gauge to align the source rod with the hole, follow the manufacturer's procedures to minimize radiation exposure.
9. After completing each measurement in which the source is unshielded, immediately return the source to the shielded position.
10. Always maintain constant surveillance and immediate control of the gauge when it is not in storage. At job sites, do not walk away from the gauge when it is left on the ground. Take action necessary to protect the gauge and yourself from danger of moving heavy equipment.
11. Always keep unauthorized persons away from the gauge.
12. Perform routine cleaning and maintenance according to the manufacturer's instructions and recommendations.
13. When the gauge is not in use at a temporary job site, place the gauge in a secured storage location (e.g., locked in the trunk of a car or locked in a storage shed).
14. Before transporting the gauge, ensure that, where applicable, each gauge source is in the fully shielded position. Ensure that in gauges with a movable source rod, the source rod is locked in the shielded position (e.g., keyed lock, padlock, mechanical control). Place the gauge in the transport case and lock the case. Block and brace the case

to prevent movement during transportation. Lock the case in or to the vehicle, preferably in a closed compartment.

15. Return the gauge to its proper locked storage location at the end of the work shift.
16. Log the gauge into the daily use log when it is returned to storage.
17. If gauges are used for measurements with the unshielded source extended more than 3 feet beneath the surface, use piping, tubing, or other casing material to line the hole from the lowest depth to 12 inches above the surface. If the piping, tubing, or other casing material cannot extend 12 inches above the surface, cap the hole liner or take other steps to ensure that the hole is free of debris (and it is unlikely that debris will re-enter the cased hole) so that the unshielded source can move freely (e.g., use a dummy probe to verify that the hole is free of obstructions).
18. After making changes affecting the gauge storage area (e.g., changing the location of gauges within the storage area, removing shielding, adding gauges, changing the occupancy of adjacent areas, moving the storage area to a new location), reevaluate compliance with public dose limits and ensure proper security of gauges

Emergency Procedures

If the source fails to return to the shielded position (e.g., as a result of being damaged, source becomes stuck below the surface), or if any other emergency or unusual situation arises (e.g., the gauge is struck by a moving vehicle, is dropped, is in a vehicle involved in an accident, etc.):

1. Immediately secure the area and keep people at least 15 feet away from the gauge until the situation is assessed and radiation levels are known. However, perform first aid for any injured individuals and remove them from the area only when medically safe to do so.
2. If any heavy equipment is involved, detain the equipment and operator until it is determined there is no contamination present.
3. Gauge users and other potentially contaminated individuals should not leave the scene until emergency assistance arrives.
4. Notify the following persons, in the order listed below, of the situation:

NAME	WORK TELEPHONE NUMBER	HOME TELEPHONE NUMBER
Eric DeRicco	732-577-9000 x1262	
Michael Byle	732-577-9000 x1286	
Moustafa Gouda	732-577-9000 x1288	

Fill in with (and update, as needed) the names and telephone numbers of appropriate personnel (e.g., the RSO or other knowledgeable licensee staff, licensee's consultant, gauge manufacturer) to be contacted in case of emergency.

5. Follow the directions provided by the person contacted above.

6. RSO and Licensee Management

7. Arrange for a radiation survey to be conducted as soon as possible by a knowledgeable person using appropriate radiation detection instrumentation. This person could be a licensee employee using a survey meter located at the job site or a consultant. To accurately assess the radiation danger, it is essential that the person performing the survey be competent in the use of the survey meter.
8. If gauges are used for measurements with the unshielded source extended more than 3 feet below the surface, contact persons listed on the emergency procedures need to know the steps to be followed to retrieve a stuck source and to convey those steps to the staff on site.
9. Make necessary notifications to local authorities as well as to NRC as required. (Even if it is not required, you may report *any* incident to NRC by calling NRC's Emergency Operations Center at (301) 816-5100, which is staffed 24 hours a day and accepts collect calls.) NRC notification is required when gauges containing licensed material are lost or stolen, when gauges are damaged or involved in incidents that result in doses in excess of 10 CFR 20.2203 limits, and when it becomes apparent that attempts to recover a source stuck below the surface will be unsuccessful.
10. Reports to NRC must be made within the reporting time frames specified by the regulations.
11. Reporting requirements are found in 10 CFR 20.2201-2203 and 10 CFR 30.50.

**PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.**

10.8. **Leak Test:** Leak tests will be performed at intervals not to exceed 6 months or other interval specified in the license using and approved leak kit. Leak test samples will be analyzed by an organization authorized by the NRC to provide leak test services.

10.9. **Maintenance:** Routine Cleaning and Lubrication.

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.

10.10. **Transportation:** No response required

11. Gauge Disposal and Transfer

No response required

This is to acknowledge the receipt of your letter/application dated

1/8/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ NEW LICENSE APPLICATION (0303686)
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 136302.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
License Fee Management Branch, ARM : Program Code: 03121
and : Status Code: 3
Regional Licensing Sections : Fee Category: _____
: Exp. Date: 0
: Fee Comments: _____
: Decom Fin Assur Req: _
: ::

LICENSE FEE TRANSMITTAL

A. REGION

I

1. APPLICATION ATTACHED

Applicant/Licensee: SCHOR DEPALMA
Received Date: 20050114
Docket No: 3036816
Control No.: 136302
License No.: 29-28530-02
Action Type: New License

2. FEE ATTACHED

Amount: \$720.00
Check No.: 44574

3. COMMENTS

Signed M. A. Perkins
Date 1/18/2005

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /___/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____