

NRC FORM 313  
(4-2004)  
10 CFR 30, 32, 33,  
34, 36, 38, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3180-0128

EXPIRES: 10/31/2006

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-8 FB2), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollections@nrc.gov](mailto:infocollections@nrc.gov), and to the Desk Officer, Office of Management and Budget, Washington, DC 20503. If a message 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 60532-4362

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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 76011-4006

03019353  
X

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)		2. NAME AND MAILING ADDRESS OF APPLICANT (include ZIP code)	
<input type="checkbox"/> A. NEW LICENSE <input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>29-20512-01</u>		INFICON Inc., 580 Route 15, Sparta, NJ 07871  cc: INFICON Inc., Two Technology Pl., East Syracuse, NY 13057	
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED		4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
580 Route 15 Sparta, NJ 07871		Gary W. Lewis	
		TELEPHONE NUMBER	
		315.434.1186	
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 <u>AMOUNT ENCLOSED</u> \$	
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, 38, 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		SIGNATURE	DATE
Gary W. Lewis, Vice President		<i>Gary W. Lewis</i>	10/22/04

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	
					135576

**Material License No. 29-2051201 Renewal Application**

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Item No. 5: RADIOACTIVE MATERIAL

Material	Chemical and/or physical form	Maximum amount which will be possessed at any one time.
A. Hydrogen 3	B. Titanium tritide foils Manufactured by Safety Corporation	C. Not to exceed 150 millicuries per foil and 6,000 millicuries total.
A. Nickel 63	B. Foil (NRD Model N 1001)	C. Not to exceed 15 millicuries per foil and 600 millicuries total.

Sealed Source Registration NO: NR-595-D101-B

Item No. 6: PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED.

Material will be used in research and development of electron capture detector cells and for the manufacture, service, and distribution of Model 50319 detector cells in INFICON Inc. instruments, to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the Nuclear Regulatory Commission or an Agreement State.

Item No. 7: INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY AND THEIR TRAINING EXPERIENCE.

Dr. Amos Linenberg Ph.D. is the Radiation Safety Officer for this license and is responsible for radiation safety.

Item No. 8: TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

Licensed material will be used by, or under the supervision of the RSO, Dr. Amos Linenberg. The RSO will provide Radiation Safety Training to employees working with or in the vicinity of radioactive materials on an individual basis.

Personnel will be instructed:

1. Before assuming duties with, or in the vicinity of, radioactive materials.
2. During annual refresher training.

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3. Whenever there is a significant change in duties, regulations, or terms of the license.

Instruction for individuals in attendance will include the following subjects:

1. Applicable regulations and license conditions.
2. Areas where radioactive material is used or stored.
3. Potential hazards associated with radioactive material in each area where the employees will work.
4. Appropriate radiation safety procedures.
5. Licensee's in-house work rules.
6. Each individual's obligation to report unsafe conditions to the Radiation Safety Officer.
7. Appropriate response to emergencies and unsafe conditions.
8. Worker's right to be informed of occupational radiation exposure and bioassay results.
9. Locations where the licensee has posted or made available notices, copies of pertinent regulations, and copies of pertinent licenses and license conditions (including applications and applicable correspondence), as required by the Regulatory Agency.

Records that Document Training:

Records of initial and refresher training will be maintained for three years and will include:

1. The name of the individual who conducted the training.
2. The names of the individuals who received the training.
3. The dates and duration of the training session.
4. A list of the topics covered.

**Item No. 9: FACILITIES AND EQUIPMENT.**

Licensed material will be received, stored and used at the company's facility located at 580 Route 15, Sparta New Jersey 07871.

The facility contains office, administration, and a work area that occupies approximately 700 sq. ft in a commercial building. A floor plan of the facility is attached.

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Radioactive material will be received, stored in a locked cabinet, and used inside an exhaust hood located in the work area. The exhaust hood was manufactured by US Testing Company, Inc. and has a fan capacity of 265 cubic feet per minute. The exhaust hood is vented outside the facility by means of a 4" diameter aluminum duct.

The linear velocity of the air through the hood is 3,000 feet per minute. With the hood sash positioned to provide a 6 inch by 24 inch opening the airflow through the hood is 265 cubic feet per minute.

Activities involving the use of radioactive materials will be performed within the exhaust hood using disposable lab coats and gloves, safety glasses, and specifically dedicated hand tools. The radioactive material will be used by or under the supervision of the Radiation Safety Officer.

Item No. 10: RADIATION SAFETY PROGRAM

Audit Program

The radiation safety program will be integrated into the company's ISO auditing process for the EH & S Division. Audits will be conducted on annual basis.

Radiation Monitoring Instruments

Surveys will be performed by the RSO using leak test kits supplied by an organization authorized by the NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions. We will use instruments that meet the radiation monitoring instrument specifications published in Appendix K to NUREG-1556, Vol. 12, "Consolidated Guidance about Materials Licenses for Manufacturing and Distribution." We reserve the right to upgrade our survey instruments as necessary.

Material Receipt and Accountability

Procedures have been developed for the receipt and storage of radioactive materials. 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.

Occupational Dose

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We have done a prospective evaluation and determined that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20.

Public Dose

N/A

Safe Use of Radionuclides and Emergency Procedures

Procedures for the safe use of radioactive materials and response to emergencies have been developed.

Surveys

We will survey our facility and maintain contamination levels in accordance with the survey frequency and contamination levels published in Appendix P to NUREG-1556, Vol. 12, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance About Possession Licenses for Manufacturing and Distribution.' Leak tests will be performed by an organization authorized by NRC or Agreement State to provide leak testing services to 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 sealed source or plated foil manufacturer's (distributor's) and kit supplier's instructions.

Transportation

N/A

Waste Management

We will use the model waste procedures published in Appendix S to NUREG-1556 Vol. 12, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance About Possession Licenses for Manufacturing and Distribution."