

# 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.

## FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 PARK AVENUE  
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

## IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

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 JURISDICTION.

## 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)

Albany International  
Appleton Wire Div.  
P. O. Box 1939  
Appleton, WI 54913

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

Same

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

Mr. T.J. Bambrick or Mr. B. A. Stowe

## TELEPHONE NUMBER

(414) 725-2600

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 AND 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 \$230.00

## 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, 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.

## SIGNATURE—CERTIFYING OFFICER

## TYPED/PRINTED NAME

## TITLE

## DATE

Bruce A. Stowe

Bruce A. Stowe

Design Manager

8/23/85

## 14. VOLUNTARY ECONOMIC DATA

### a. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

### b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

### c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

YES ☐ NO ☐

RECEIVED

## FOR NRC USE ONLY

### TYPE OF APP

### FEE LOG

### FEE CATEGORY

### COMMENTS

### AMOUNT RECEIVED

### CHECK NUMBER

8510020412 850918  
REG3 LIC30  
48-24563-01 PDR

CONTROL NO. 7 9643

AUG 26 1985

REGION III

DATE

9/6/85

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

ALBANY INTERNATIONAL  
APPLETON WIRE DIVISION

RE: NRC Form 313

- 5.1 Americium 241 (AM -241)
- 5.2 Amersham AMCP1
- 5.3 25 mCi
- 5.4 NDC Systems Model 104
6. Portable gamma backscatter mass gauge manufactured under a State of California Specific License 1451-70 and sold under a State of California General License GL 1933-70.  
  
Used in paper mills to measure drainage profiles under the wire of a fourdrinier papermaking machine.
7. Mr. Bruce Stowe has been nominated and qualified as the radiation safety officer. Mr. Stowe is a graduate of the University of Maine, Orono, ME and holds a B.S. degree in Chemical Engineering. His course of studies included university level physics, organic chemistry, quantitative analysis and physical chemistry.
8. (See 7 above)
9. See attached sketch.
10. Radiation Safety Program

The following procedures will be followed in the use of the Model 104.

- 1) The Radiation Safety Officer (RSO) will have overall responsibility for the gauge. The gauge, when not in use, shall be in the RSO's possession and stored in a secured area. The RSO shall have the only key to the secured area.
- 2) Requests by customers for surveys or demonstrations using the gauge will be recorded by the RSO who will assign dates and engineering personnel for each field trip.
- 3) The RSO will make all necessary arrangements for transportation. During transportation by car, the gauge, in its locked case, shall be securely locked into the car trunk. All applicable State and Federal transportation regulations regarding securing of the unit and identification shall be observed.

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- 4) The RSO will send necessary notification to Agreement States and NRC offices at least three days prior to performing field work in those states, giving estimated date that the gauge will be at that particular plant.
- 5) The field engineer performing the survey is not to leave the gauge unattended in unsecured areas. If it is necessary to leave the plant survey area, the gauge shall be repacked in its case, the case should be locked, and then stored in a location where it can be either kept under lock and key or be under the constant control of a senior plant employee.
- 6) Prior to assigning the gauge to a field engineer, the RSO shall check the gauge for proper operation, and make sure that the shutter is working properly. The RSO will check that the detailed operating instructions for use of the gauge are packed in a prominent location with the gauge.
- 7) When the gauge is returned, the above shall be repeated.
- 8) The RSO will be responsible for ensuring that the six-month lead tests and shutter tests are performed, and that all records be kept on file.
- 9) At no time will company personnel attempt to perform maintenance or repairs on the radiation device. In case of damage or suspected damage to the radiation device, the following procedures shall be followed:

#### Procedures in Case of Suspected Damage

This procedure is designed to prevent the possible spread of radioactive material. It should be carried out preferably by one person, conducted in as limited a physical area as possible. Because of its physical location and its construction (helium arc welded stainless steel), it is highly unlikely that any damage will occur to the source. However, in case of actual or suspected damage, the following procedure should be followed:

- 1) Place the entire probe in a plastic bag and seal, or in any container with a tight lid.
- 2) Notify the RSO and the nearest State Department of Public Health or the nearest NRC office. This information will be given to the field engineer at the time of his receiving the gauge.
- 3) Isolate the sealed unit in an unused and secure area.
- 4) All personnel involved should thoroughly wash their hands.
- 5) If possible, rope off the area involved until such time as the proper authorities have arrived to investigate.

6) Call NDC Systems collect during normal west coast working hours at (818) 358-1871.

7) Call (818) 357-9636 on weekends or after normal working hours and leave a message.

#### Loss of Gauge

In the event that the gauge is lost, the following procedure should be followed:

1) If lost by a common carrier, the RSO should be notified. It should be emphasized to the common carrier personnel that the lost article is a radioactive device.

2) If the gauge is not traced within 24 hours, notify the responsible State or NRC Radiological Health office.

3) If stolen from car or if car is stolen with unit in the trunk, notify SRO and all relevant State Police, Sheriff, and/or Highway Patrol offices. If not recovered within 24 hours, notify the responsible State or NRC Radiological health office.

#### 10.1 and 10.2

No personnel monitoring devices will be required. This device has been in use for over 15 years as a portable mass measuring instrument and has an unblemished safety record.

The energy output is soft 60 KEV radiation. The maximum exposure at one foot with the shutter open is 3.5 mrem. The operator is never positioned in the radiation beam and is normally at least three feet away from the active end of the device. The use of the device is intermittent and would average less than ten hours per week.

Because of the above, and based also on years of experience by other users performing the same measurements with this device, it is extremely unlikely that the user or plant personnel would receive any detectable radiation from the use of this device.

10.3 Leak Tests will be performed at six-month intervals by NDC systems or by persons specifically licenses to do so.

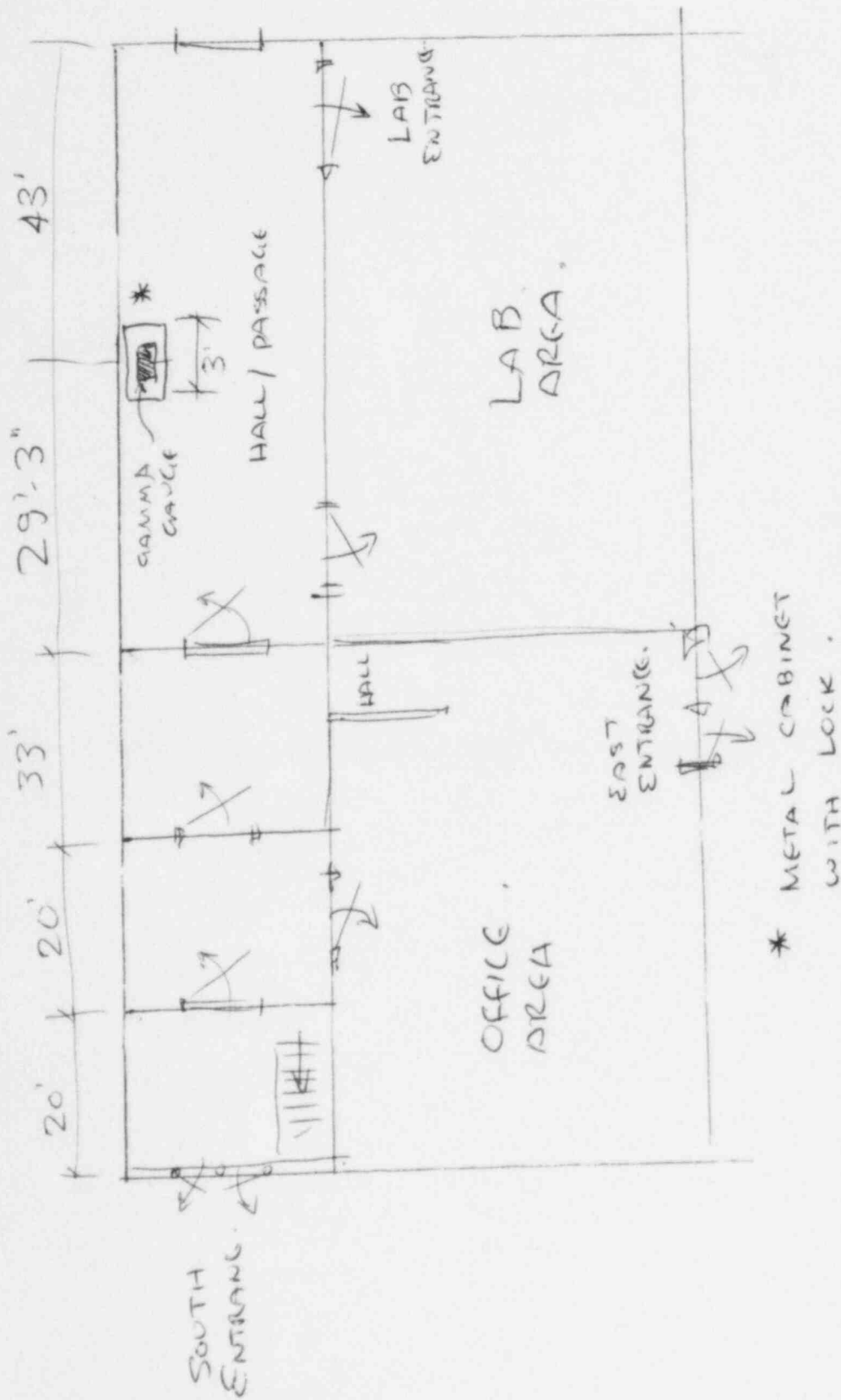
10.4 The radioactive device will be returned to NDC Systems for all repairs. No maintenance (other than wipe tests) will be required.

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CONTROL NO. 7 964 3

- 10.5 The RSO will make all necessary arrangements for transportation of the gauge. All applicable State and Federal transportation regulations shall be observed.
- 10.6 Operating and emergency procedures as described above will be provided to each field engineer using the device.
- 11. No waste is generated. Device to be returned to NDC Systems in the event of cessation of use.





NRC. FORM 313  
ITEM 9.  
LICENSE APPLICATION.

APPLETON WIRE  
MENESSHA WISC.

# ALBANY INTERNATIONAL

Appleton Wire Division  
414/725-2600 TELEX 26-2731  
P.O. Box 1939, Appleton, WI 54913-1939

TO •  
U.S. NUCLEAR REGULATORY COMMISSION  
REGION 111  
Materials Licensing Sect.  
799 Roosevelt Road  
Glen Ellyn, IL 60137

PLEASE ENTER OUR ORDER FOR THE FOLLOWING

ORDER DATE 8-23-85	SHIP VIA	DATE REQUIRED 8-23-85	WISCONSIN SALES TAX	
			TAXABLE	EXEMPT
QUANTITY	DESCRIPTION	PRICE	OUR ACCOUNT NO.	
1	TO COVER LICENSE FEE, AS REQUIRED BY NRC, TO KEEP, OPERATE & TRANSPORT THE PORTABLE GAMMA GAUGE.			
REQUISITIONED BY T. Bambrick		AUTHORIZED BY EDJ:WB	PURCHASING AGENT C. Gardner	

## PURCHASE ORDER

### CONDITIONS

1. Acknowledge Acceptance By P.O. Number
2. Advise Shipping Date.
3. Invoice in Triplicate.
4. Show Order Number on Invoice and Shipment.

### INVOICE TO

ALBANY INTERNATIONAL APPLETON WIRE DIVISION  
P.O. BOX 1939 APPLETON, WI 54913-1939

### SHIP TO LOCATION SHOWN BY NUMBER IN BOX

- ☐ 1. 451 MILWAUKEE ST., MENASHA, WI 54952  
☐ 2. AS SHOWN BELOW

*C Gardner (sam)*

AUTHORIZED SIGNATURE

SAM

PURCHASE ORDER NO. 40440

Executive Order 11246, as amended, Section 402 of the Vietnam Era Veteran Readjustment Act of 1972, as amended, and Section 503 of the Rehabilitation Act of 1973, as amended, contain required contract clauses relative to Equal Employment Opportunity and are incorporated herein by specific reference where applicable.