

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 8
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)

Donohue & Associates, Inc.
4738 North 40th Street
Sheboygan, WI 53081

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

At address listed in Item 2 and at temporary jobsites throughout the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction over the use of by-product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Warren R. Rehfeldt

TELEPHONE NUMBER

414-458-8711

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:

8509110533 850827
REG3 LIC30
48-18608-02 PDR

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

James W. Garvin

James W. Garvin, P.E.

Associate

8/19/85

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 (hourly 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

RECEIVED

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED

AUG 21 1985

AMOUNT RECEIVED

CHECK NUMBER

CONTROL NO. 7 9614

AUG 21 1985

DATE

8/28/85

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 51(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

U.S. NRC
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AUG 28 1985

REGION III

Item 5 - Radioactive Material

Sealed sources employed in Troxler Model 3400 Series surface moisture/density gauge:

<u>Radionuclei</u>	<u>Form</u>	<u>Troxler Drawing #</u>	<u>Maximum Amount</u>
Cs-137	Special Form	A-102112	Not to exceed 9 mCi per source
Am-241:Be	Special Form	A-102451	Not to exceed 44 mCi per source

Item 6 - Purpose for Which Licensed Material Will Be Used

Gauging device used for determination of moisture content and density of soils, soil-stone aggregate, cement, asphalt treated bases, and asphalt paving.

Item 7 - Individuals Responsible for Radiation Safety Program-- Their Training and Experience

Warren R. Rehfeldt

- ° Completed radiological safety training course, theory, maintenance, and operation of Seaman Model C-200 nuclear density meter, June 25, 1985, at Seaman Nuclear Corporation, Oak Creek, Wisconsin. Instructor - Scott C. Seaman.
- ° As a former employee of the Nuclear Regulatory Commission (NMSS/Division of Waste Management), received training in radiation safety, principles, and practices, in conjunction with course on Nuclear Reactor Concepts - Introduction to Nuclear Power and Radiation, October 13-14, 1981, at Bethesda, Maryland. Instructor - Rick Hasselberg, NRC-IE.
- ° Received training in radiological safety, field operation, and maintenance of Soiltest, Inc., of Evanston, Illinois, probe-type moisture-density gauge, as part of Geophysical Training Session at Soiltest Proving Ground and Training Center, Baraboo, Wisconsin, May 15-18, 1974, under direction of Stephan V. Thompson.

Pamela Markelz

- ° Responsible for the development and implementation of Donohue's Waste Management Health and Safety Program. This includes establishing health and safety protocols that follow USEPA guidelines and OSHA Health and Safety Standards for personnel involved with hazardous waste site investigations.

- ° Completed EPA accredited 40 hour Toxic and Hazardous Waste Safety Training Course, September, 1984, conducted by GeoEnvironmental Consultants, Inc. The course, presented by Steven P. Maslansky, included a section on radiological hazards and radiological safety.
- ° Ms. Markelz will attend the Troxler Nuclear Gauge Training Course that is designed to qualify nuclear gauge operators and radiation safety officers.

Item 8 - Training Provided to Other Users

Each operator that has not completed the Troxler Nuclear Gauge Training Course, will complete the training course before being permitted to use the device. The persons listed in Items 4 and 7 will keep a copy of each individual's training certificate on file.

Item 9 - Facilities and Equipment

When not in use, the equipment will be stored in a locked enclosure located in an existing storage facility (see attached drawing). The keys to the storage room will be kept by the Radiation Safety Officer to ensure against unauthorized removal of the equipment. The nearest occupied area is the Donohue Analytical laboratory, which is in the west half of the building and located more than 30 feet away from the storage room. Except while in locked storage, the equipment shall remain under the direct control of the individual operator.

Item 10 - Radiation Safety Program

Donohue & Associates, Inc., will conduct a radiation safety program in accordance with (1) the statements, representations, and procedures contained in this application, (2) the terms and conditions of the license, and (3) the Nuclear Regulatory Commission's regulations. A copy of the Donohue Radiation Safety Program is attached.

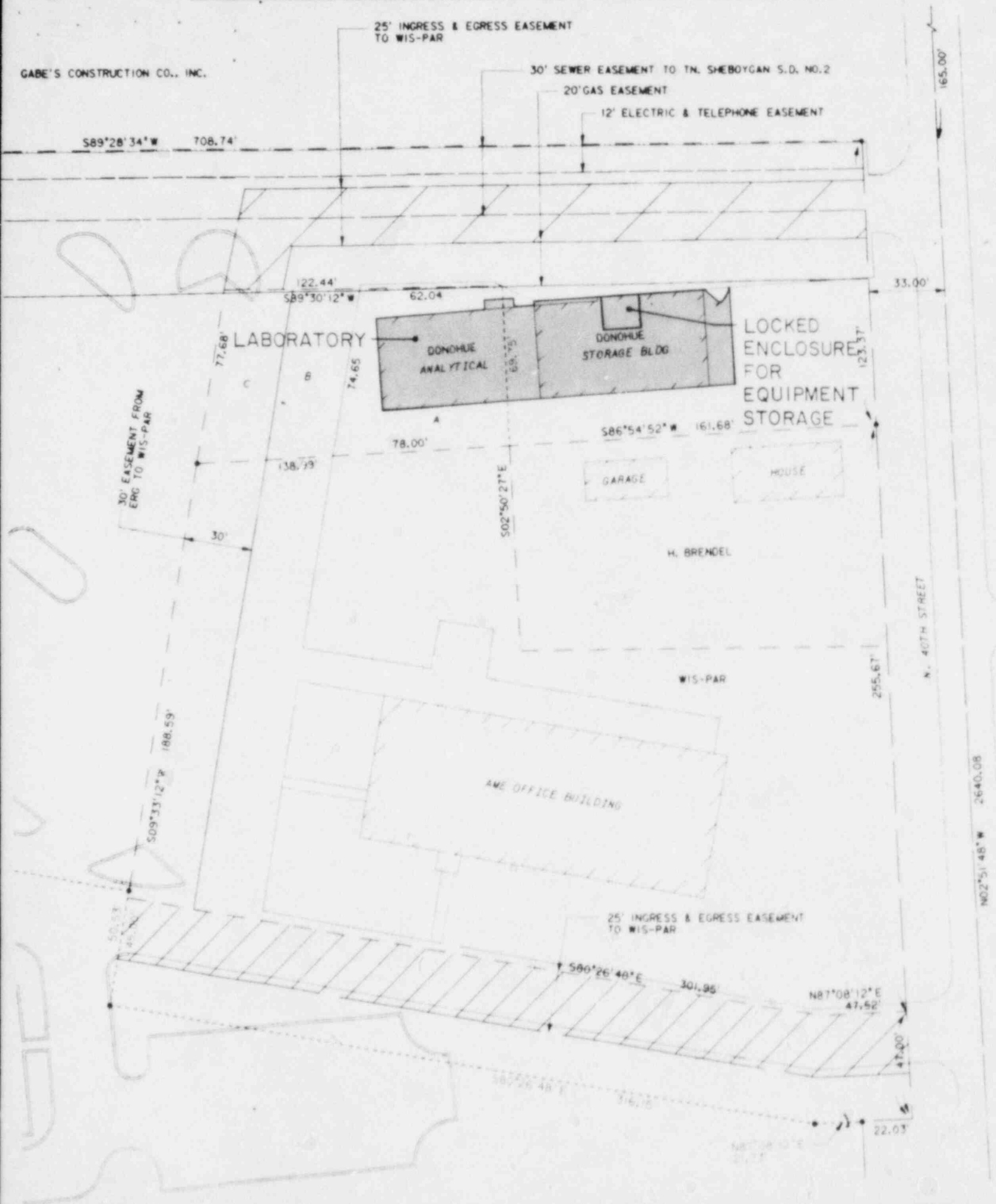
Item 11 - Waste Management

Disposal of the gauge will be by transfer to another licensed user, a licensed burial ground, or back to the original supplier.

TR/MISC/AIO

STORAGE FACILITIES FOR NUCLEAR DENSITY METERS

GABE'S CONSTRUCTION CO., INC.



Donohue

RADIATION SAFETY PROGRAM

1. Radiation Safety Officers

A. Warren Rehfeldt and Pamela Markelz have been designated as the company Radiation Safety Officers 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 in the required timely manner and that the leak test is performed in the manner prescribed by the equipment 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 device when utilizing the equipment.
- 4) To maintain the records as required by the license and the regulations. These records shall include personnel exposure records, leak test records, and training certificates for all users.
- 5) To ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.
- 6) To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of emergency.
- 7) To ensure that all users have read and understand the radiation safety operating and emergency procedures.

2. 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 the equipment is away from the passenger compartment. When transporting in an

Donohue & Associates, Inc.
4738 North 40th Street
Sheboygan, Wisconsin 53081

Engineers & Architects
414-458-8711



Donohue

enclosed vehicle (car or van), the vehicle will be locked. When transporting in an open bed vehicle, the gauge should be securely fastened and locked 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.
- 3) At all times during transport, the operator will have a properly completed Bill of Lading for each gauge.

B. Utilization Procedures:

- 1) When the gauge is in the field, the operator as the authorized user must maintain control over the gauge at all times. The gauge must never be left unattended.
- 2) When not making measurements, the gauge should be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge is to be used for its intended purpose only. By doing so, the operator will maintain any radiation exposure to as low as reasonably attainable.
- 3) When using the equipment, the operator will wear the assigned personnel monitoring device. When the operator is not using the equipment, the monitoring device is to be stored in the radiation free area that has been designated in the office.

C. Maintenance and Leak Test Procedures:

- 1) Periodic maintenance will include cleaning the gauge. During any maintenance, the operator must wear the personnel monitoring device.
- 2) No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.
- 3) The leak test will be performed using the TROXLER Model 3880 Leak Test Kit. The leak test will be performed using the manufacturer's instructions.

Donohue

Again, the personnel monitoring device will be employed. Gauges will be leak tested at intervals not to exceed six months.

3. Emergency Procedures

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

- 1) Immediately cordon off an area around the gauge. An area radius of 15 feet will be sufficient.
- 2) If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
- 3) A visual inspection of the gauge is to be made to determine if the source housing and/or shielding has been damaged.
- 4) At the earliest possible time, when the situation is under control, the operator must contact Warren Rehfeldt or Pamela Markelz at 414-458-8711. Describe the present conditions and follow the instructions of the Radiation Safety Officer.

B. In the event the gauge is lost or stolen, immediately notify the Radiation Safety Officer as listed above in Item 3.A.4.

TR/MISC/All