

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 08-11817-15

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Northern Division
Naval Facilities Engineering Command
Philadelphia Naval Base - Bldg. 77-L
Philadelphia, Pennsylvania 19112

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

At the address listed in Item 2 and at United States Government installations throughout the United States where USNRC maintains jurisdiction over by product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Dominic DiGiantomasso, Code 1022/DD

TELEPHONE NUMBER

215-897-6253

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 AMOUNT ENCLOSED \$ None

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

Thomas Wallace

TITLE

Head, Technical Facilities
Support Section

DATE

12 MAR 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

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

AMOUNT

8507290052 850711
NMSS LIC30
37-05293-03 PDR

DATE

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

NRC Form 313.(continued)

Items 5 thru 11

5. RADIOACTIVE MATERIAL

| By-product, source and/or special nuclear material | Chemical and/or physical form | Maximum Amount that license may possess at any one time under this license |
|--|--|--|
| a. Americium 241:Be | Sealed neutron source (Troxler Model 3205) | Not to exceed $\frac{+}{-}$ 40 millicuries per source $\frac{+}{-}$ 10% |

6. PURPOSE (S) FOR WHICH LICENSED MATERIAL WILL BE USED

The licensed material will be used for the purpose of measuring surface and sub-surface moisture in built up roofing systems. The Troxler Surface Moisture Gauge Model 3205 will be used for this purpose.

7. INDIVIDUAL (S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

(See Attached Sheet)

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

(See Attached Sheet)

9. FACILITIES AND EQUIPMENT

A. The Troxler Moisture Gauge is stored in a locked metal cabinet. The cabinet is located in our storage room which is also locked. The storage room is in a remote section of the building with access by only a few authorized personnel. The area has adequate signs indicating radioactive material is being stored.

10. RADIATION SAFETY PROGRAM

10.1 Personnel Monitoring Equipment - Personnel monitoring will not receive a dose in excess of 25% of the dose specified in paragraph 20.101 (a) of 10 CFR Part 20. Specific doses per calendar quarter are 1- $\frac{1}{2}$ rems to the whole body, head and trunk active blood forming organs, or gonads; 18 $\frac{3}{4}$ rems to the skin or the whole body. Individuals under 18 years of age will use a personnel monitoring equipment if they receive or are likely to receive a dose in excess of 5% of the calendar quarter dose specified in Paragraph 20.101 (a). All personnel will wear a thermoluminescent dosimeter (TLD) when using the device. They will be changed every six (6) weeks.

10.2 Radiation Detection Instruments - A radiation survey meter does not have to be used during routine operation of the device because personnel will be wearing thermoluminescent dosimeter (TLD) badges.

10.3 Leak-Testing - Leak tests will be made every six (6) months. A commercial leak test kit will be used for this purpose. The Troxler Model 3880 Leak Test Kit, Troxler Electronic Laboratories, Inc., Research Triangle Park, North Carolina 27709. The test would be taken by an individual specified on Item 7 of this application form.

10.4 Maintenance - Maintenance will be done with the radioactive source in the safe shielded position. No maintenance will be performed that would involve the removal of the radioactive source.

10.5 Transportation of Devices to Field Locations - All Department of Transportation (DOT) concerning labeling, packaging and shipping will be strictly adhered.

10.6 Operating and Emergency Procedures

1. All personnel will wear their personal dosimeter badge when working with the device.

2. Each individual will know the correct procedure of operating the device. An eight (8) hour course by Troxler Electronics Laboratories, Inc. is mandatory for each individual.

3. Storage

A. At the principal location where the instrument is stored, there shall be kept:

(a) A copy of the Radiation Protection Instructions for this equipment.

(b) A list of all persons qualified through training to use, transport and store the equipment.

(c) A location log that shall detail the exact location of the equipment at all times. This log shall be duplicated every six months and a copy sent to the Radiological Safety Officer for inventory. Included in this log shall be the record of leak tests made prior to each transport.

(d) A sketch showing the exact method of permanent storage, locks required, and name and telephone number of persons having access shall be posted outside the secured area.

(e) The secured area shall be marked on the outside that there is radioactive material stored in the area. The source shall be identified, and its maximum strength stated.

(f) A copy of the USNRC license covering the equipment.

B. At temporary job sites, the following precautions must be observed:

(a) Do not leave the instrument unattended.

(b) Only authorized personnel shall transport, operate and store the equipment.

(c) Insure that the equipment is located in a secure space when unattended.

(d) Avoid unnecessary exposure of personnel to radiation.

(e) Insure that there is suitable distance between the temporary storage space and areas of personnel occupancy. (Any area where an individual person remains for over one hour is considered an area of personnel occupancy.)

4. Transportation

(a) The equipment, in its container, may be transported by motor vehicle under the "YELLOW II" label without placarding the vehicle as required by 49 CFR 177.823.

(b) The lock must be in place and the container placed in a portion of the vehicle which can be locked. When not in transit the equipment must be stored in a secured area.

(c) Since the container has a Transport Index of 0.1 or greater it may not be stored less than 30 centimeters (12 inches) from passengers per 49 CFR 174.586. It also can not be stored for more than 8 hours at less than 1 meter (3.3 feet) from undeveloped film.

5. Emergency Procedures

(a) In the event of physical damage to a gauge, a fifteen (15) foot radius exclusion area shall be maintained until the extent of source damage is determined. If a vehicle is involved, it must be stopped and remain stopped until the extent of contamination hazard is determined. If visual examination of the instrument and source indicates damage to the source, including fracture of the weld, the appropriate authorities and Troxler Electronics Laboratories, Inc. should be notified. The instrument may be removed by using a shovel or other long handled instrument and placed in a suitable container such as a metal drum.

(b) Provisions should be made to have the site surveyed for possible contamination after the instrument is removed. Disposition by the factory, as covered in Item 11 may be arranged after a leak test has been performed to determine the integrity of the source prior to shipment to the factory.

(c) Immediate telephone notification must be made to the following in the event of loss of sealed source, whether accidental or due to theft.

- (1) Radiological Safety Officer (215) 897-6253/6220
- (2) U.S. NRC Regional Office, if applicable
- (3) State Health Department, Radiological Protection Division, if applicable
- (4) Local Authorities - Fire Department, Sheriff, Police, State Highway Patrol, if necessary
- (5) Troxler Electronics Laboratories, Inc. if necessary

Within 30 days after the loss a written report must be filed giving detailed description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazards encountered, actions taken to recover the source, and procedures which will be implemented to prevent a recurrence of the loss or theft.

(d) Any overexposure of operators which exceeds the limits given in 10 CFR Part 20 shall be reported detailing circumstances of the exposure and possible injury.

(e) Submit all reports to: The Radiological Safety Officer for the Roof Moisture Inspection Program, Northern Division Naval Facilities Engineering Command, Code 10, Building 77-L, Philadelphia Naval Yard, Philadelphia, PA 19112

11. WASTE MANAGEMENT

A. If warranted, the radioactive material would be disposed of by returning the material to the manufacturer, Troxler Electronics Laboratories, Inc., Research Triangle Park, North Carolina 27709

ITEM 7. Individual (s) responsible for radiation safety program and their training and experience

ITEM 8. Training for individuals in or frequenting restricted areas

| | <u>NAME</u> | <u>ACTIVITY</u> | <u>TELEPHONE</u> | <u>RADIATION SAFETY TRAINING COURSE</u> | | |
|-----|------------------------------------|---|------------------|---|-----------------------------------|---------------------|
| 1. | Katacinski, Joseph E. Code 1021 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6251 | (1) | Phila Naval Base Phila, PA | 7/22/80 4 |
| 2. | Redic, A.O. Code 1022 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215 897-6244 | (1) | Phila Naval Base Phila, PA | 7/22/80 4 |
| 3. | Faust, Barry Code 1022 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6252 | (1) | Washington, DC | 11/15/79 5 |
| 4. | DiGiantomaso, Dominic Code 1022 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6253 | (1) | Phila, PA | 3/25/85 0 |
| 5. | Schmoll, Walter Code 1021 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6021 | (1) | Washington, DC | 11/15/79 5 |
| 6. | Juhola, Harold R. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) (2) | Great Lakes, ILL Milwaukee, WI | 8/ /80 5/10/78 5 |
| 7. | Hoffman, Kenneth B. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) (2) | Great Lakes, ILL Milwauke, WI | 8/ /80 5/10/79 5 |
| 8. | Rosendahl, Reijo Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) | Great Lakes, ILL | 6/9/82 2 |
| 9. | Mieczkowski, Mark M. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) | Great Lakes, ILL | 6/9/82 2 |
| 10. | Retzke, George R. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) | Great Lakes, ILL | 8/ /80 4 |

| | | | | | | | |
|-----|----------------------------------|--|--------------|-----|-----------------------------|----------|---|
| 11. | Lee, Art Code 102 | CHESNAVFAC Washington Navy Yard Washington, DC 20374 | 202-433-4726 | (1) | Rockeville, MD | 5/ /83 | 1 |
| 12. | Minato, Fred Code 102 | PACNAVFAC Pearl Harbor, HI 96860 | 808-471-3215 | (1) | Washington, DC | 11/15/79 | 5 |
| 13. | Council, William M. Code 1026 | SOUTHNAVFAC 2144 Melbourne St. P.O. Box 10068 Charleston, SC 29411 | 803-743-4155 | (1) | Washington, DC | 11/15/79 | 5 |
| 14. | Harrington, Max G. Code 102 | WESNAVFAC P.O. Box 727 San Bruno, CA 94066 | 415-877-7524 | (1) | San Bruno, CA | 8/29/80 | 4 |
| 15. | Welsh, Cecil Jr. Code 1023 | LANTDIV Norfolk, VA 23511 | 804-444-9819 | (1) | Virginia Beach, Virginia | 10/12/81 | 3 |

- (1) Troxler Electronic Lab, Inc. Standard Training Course on Radiological Safety and Equipment Operation (8) Hours.
 (2) Seaman Nuclear Corp. Standard Training Course on Radiological Safety and Equipment Operation (8) Hours.

Item 8 (continued)

A. Only those individuals having completed the manufacturer's training program will be permitted to use the nuclear moisture gauge.

B. Training in the use of the Troxler Moisture Gauge, or equivalent, will be conducted by a trained representative of the manufacturer. Training other than the training offered by the manufacturer of the device, will be performed by an instructor with sufficient training in radiation safety. The instructor's training will be equivalent (or better) to completion of an eighty (80) hour course in radiation principle and practice.

C. The records of the individual's training will be maintained for a period of two (2) years.



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND DETACHMENT
RADIOLOGICAL AFFAIRS SUPPORT OFFICE (RASO)
YORKTOWN, VA 23691

IN REPLY REFER TO

'85 MAR 21 A9:22

8128/3254.7B

Ser 6446W/ 152

15 MAR 1985

LEL 05293

03121

30-22304

U.S. Nuclear Regulatory Commission
Division of Fuel Cycle and Material Safety
ATTN: Chief, Materials Licensing Branch
Mail Stop SS-396
Washington, DC 20555

Gentlemen:

The enclosed application by the Northern Division, Naval Facilities Engineering Command to renew U.S. Nuclear Regulatory Commission Materials License No. 08-11817-15 is endorsed.

Request that this application be considered timely filed. For your information responsibility for this license has shifted from Chesapeake Division in Washington, DC to Northern Division in Philadelphia.

It is requested that receipt acknowledgement data be forwarded to this Office on the enclosed card.

Sincerely,

P. J. DURFEE
Commander, MSC, USN
Director

Enclosure:

- (1) NORDIV NAVFACENGCOM NRC
Form 313 dated 12 Mar 85
- (2) Receipt Acknowledgement Card

Copy to: (w/o encl)
NORDIV NAVFACENGCOM, Philadelphia

8507290045

18823

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(pkg dupe)

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FEE CATEGORY

AMOUNT
ENCLOSED \$

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TYPED/PRINTED NAME

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TITLE

Head, Technical Facilities
Support Section

DATE

12 MAR 85

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☐ NO

FOR NRC USE ONLY

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NRC Form 313 (continued)
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A. The Troxler Moisture Gauge is stored in a locked metal cabinet. The cabinet is located in our storage room which is also locked. The storage room is in a remote section of the building with access by only a few authorized personnel. The area has adequate signs indicating radioactive material is being stored.

10. RADIATION SAFETY PROGRAM

10.1 Personnel Monitoring Equipment - Personnel monitoring will not receive a dose in excess of 25% of the dose specified in paragraph 20.101 (a) of 10 CFR Part 20. Specific doses per calendar quarter are 1- $\frac{1}{4}$ rems to the whole body, head and trunk active blood forming organs, or gonads; 18 $\frac{3}{4}$ rems to the skin or the whole body. Individuals under 18 years of age will use a personnel monitoring equipment if they receive or are likely to receive a dose in excess of 5% of the calendar quarter dose specified in Paragraph 20.101 (a). All personnel will wear a thermoluminescent dosimeter (TLD) when using the device. They will be changed every six (6) weeks.

10.2 Radiation Detection Instruments - A radiation survey meter does not have to be used during routine operation of the device because personnel will be wearing thermoluminescent dosimeter (TLD) badges.

10.3 Leak-Testing - Leak tests will be made every six (6) months. A commercial leak test kit will be used for this purpose. The Troxler Model 3880 Leak Test Kit, Troxler Electronic Laboratories, Inc., Research Triangle Park, North Carolina 27709. The test would be taken by an individual specified on Item 7 of this application form.

10.4 Maintenance - Maintenance will be done with the radioactive source in the safe shielded position. No maintenance will be performed that would involve the removal of the radioactive source.

10.5 Transportation of Devices to Field Locations - All Department of Transportation (DOT) concerning labeling, packaging and shipping will be strictly adhered.

10.6 Operating and Emergency Procedures

1. All personnel will wear their personal dosimeter badge when working with the device.

2. Each individual will know the correct procedure of operating the device. An eight (8) hour course by Troxler Electronics Laboratories, Inc. is mandatory for each individual.

3. Storage

A. At the principal location where the instrument is stored, there shall be kept:

(a) A copy of the Radiation Protection Instructions for this equipment.

(b) A list of all persons qualified through training to use, transport and store the equipment.

(c) A location log that shall detail the exact location of the equipment at all times. This log shall be duplicated every six months and a copy sent to the Radiological Safety Officer for inventory. Included in this log shall be the record of leak tests made prior to each transport.

(d) A sketch showing the exact method of permanent storage, locks required, and name and telephone number of persons having access shall be posted outside the secured area.

(e) The secured area shall be marked on the outside that there is radioactive material stored in the area. The source shall be identified, and its maximum strength stated.

(f) A copy of the USNRC license covering the equipment.

B. At temporary job sites, the following precautions must be observed:

(a) Do not leave the instrument unattended.

(b) Only authorized personnel shall transport, operate and store the equipment.

(c) Insure that the equipment is located in a secure space when unattended.

(d) Avoid unnecessary exposure of personnel to radiation.

(e) Insure that there is suitable distance between the temporary storage space and areas of personnel occupancy. (Any area where an individual person remains for over one hour is considered an area of personnel occupancy.)

4. Transportation

(a) The equipment, in its container, may be transported by motor vehicle under the "YELLOW II" label without placarding the vehicle as required by 49 CFR 177.823.

(b) The lock must be in place and the container placed in a portion of the vehicle which can be locked. When not in transit the equipment must be stored in a secured area.

(c) Since the container has a Transport Index of 0.1 or greater it may not be stored less than 30 centimeters (12 inches) from passengers per 49 CFR 174.586. It also can not be stored for more than 8 hours at less than 1 meter (3.3 feet) from undeveloped film.

5. Emergency Procedures

(a) In the event of physical damage to a gauge, a fifteen (15) foot radius exclusion area shall be maintained until the extent of source damage is determined. If a vehicle is involved, it must be stopped and remain stopped until the extent of contamination hazard is determined. If visual examination of the instrument and source indicates damage to the source, including fracture of the weld, the appropriate authorities and Troxler Electronics Laboratories, Inc. should be notified. The instrument may be removed by using a shovel or other long handled instrument and placed in a suitable container such as a metal drum.

(b) Provisions should be made to have the site surveyed for possible contamination after the instrument is removed. Disposition by the factory, as covered in Item 11 may be arranged after a leak test has been performed to determine the integrity of the source prior to shipment to the factory.

(c) Immediate telephone notification must be made to the following in the event of loss of sealed source, whether accidental or due to theft.

- (1) Radiological Safety Officer (215) 897-6253/6220
- (2) U.S. NRC Regional Office, if applicable
- (3) State Health Department, Radiological Protection Division, if applicable
- (4) Local Authorities - Fire Department, Sheriff, Police, State Highway Patrol, if necessary
- (5) Troxler Electronics Laboratories, Inc. if necessary

Within 30 days after the loss a written report must be filed giving detailed description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazards encountered, actions taken to recover the source, and procedures which will be implemented to prevent a recurrence of the loss or theft.

(d) Any overexposure of operators which exceeds the limits given in 10 CFR Part 20 shall be reported detailing circumstances of the exposure and possible injury.

(e) Submit all reports to: The Radiological Safety Officer for the Roof Moisture Inspection Program, Northern Division Naval Facilities Engineering Command, Code 10, Building 77-L, Philadelphia Naval Yaw, Phila., PA 19112

11. WASTE MANAGEMENT

A. If warranted, the radioactive material would be disposed of by returning the material to the manufacturer, Troxler Electronics Laboratories, Inc., Research Triangle Park, North Carolina 27709

ITEM 7. Individual (s) responsible for radiation safety program and their training and experience

ITEM 8. Training for individuals in or frequenting restricted areas

| | <u>NAME</u> | <u>ACTIVITY</u> | <u>TELEPHONE</u> | <u>RADIATION SAFETY TRAINING COURSE</u> | | | |
|-----|-------------------------------------|---|------------------|---|-----------------------------------|-------------------|---|
| 1. | Katacinski, Joseph E. Code 1021 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6251 | (1) | Phila Naval Base Phila, PA | 7/22/80 | 4 |
| 2. | Redic, A.O. Code 1022 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215 897-6244 | (1) | Phila Naval Base Phila, PA | 7/22/80 | 4 |
| 3. | Faust, Barry Code 1022 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6252 | (1) | Washington, DC | 11/15/79 | 5 |
| 4. | DiGiantomasso, Dominic Code 1022 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6253 | (1) | Phila, PA | 3/25/85 | 0 |
| 5. | Schmoll, Walter Code 1021 | NORTHNAVFAC Phila Naval Base Phila, PA 19112 | 215-897-6021 | (1) | Washington, DC | 11/15/79 | 5 |
| 6. | Juhola, Harold R. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) (2) | Great Lakes, ILL Milwaukee, WI | 8/ /80 5/10/78 | 5 |
| 7. | Hoffman, Kenneth B. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) (2) | Great Lakes, ILL Milwaukee, WI | 8/ /80 5/10/79 | 5 |
| 8. | Rosendahl, Reijo Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) | Great Lakes, ILL | 6/9/82 | 2 |
| 9. | Mieczkowski, Mark M. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) | Great Lakes, ILL | 6/9/82 | 2 |
| 10. | Retzke, George R. Code 104 | Public Works Ctr. NTC, Great Lakes, ILL 60088 | 312-688-6786 | (1) | Great Lakes, ILL | 8/ /80 | 4 |

| | | | | | | | |
|-----|----------------------------------|--|--------------|-----|-----------------------------|----------|---|
| 11. | Lee, Art Code 102 | CHESNAVFAC Washington Navy Yard Washington, DC 20374 | 202-433-4726 | (1) | Rockeville, MD | 5/ /83 | 1 |
| 12. | Minato, Fred Code 102 | PACNAVFAC Pearl Harbor, HI 96860 | 808-471-3215 | (1) | Washington, DC | 11/15/79 | 5 |
| 13. | Council, William M. Code 1026 | SOUTHNAVFAC 2144 Melbourne St. P.O. Box 10068 Charleston, SC 29411 | 803-743-4155 | (1) | Washington, DC | 11/15/79 | 5 |
| 14. | Harrington, Max G. Code 102 | WESNAVFAC P.O. Box 727 San Bruno, CA 94066 | 415-877-7524 | (1) | San Bruno, CA | 8/29/80 | 4 |
| 15. | Welsh, Cecil Jr. Code 1023 | LANTDIV Norfolk, VA 23511 | 804-444-9819 | (1) | Virginia Beach, Virginia | 10/12/81 | 3 |

- (1) Troxler Electronic Lab, Inc. Standard Training Course on Radiological Safety and Equipment Operation (8) Hours.
 (2) Seaman Nuclear Corp. Standard Training Course on Radiological Safety and Equipment Operation (8) Hours.

Item 8 (continued)

A. Only those individuals having completed the manufacturer's training program will be permitted to use the nuclear moisture gauge.

B. Training in the use of the Troxler Moisture Gauge, or equivalent, will be conducted by a trained representative of the manufacturer. Training other than the training offered by the manufacturer of the device, will be performed by an instructor with sufficient training in radiation safety. The instructor's training will be equivalent (or better) to completion of an eighty (80) hour course in radiation principle and practice.

C. The records of the individual's training will be maintained for a period of two (2) years.

MILESTONE FORM

Docket No.

☒ 30 ☐ 40 ☐ 70

77304

Mail Control No.

18823

Milestone

Date

- 03 Received From Fees
- 09 Assigned to Section/Region
- 10 Received by Section/Region
- 11 Assigned to Reviewer
- 12 Deemed Timely Letter Sent
- 13 Initiate Technical Review
- 14 Deficiency Letter Sent
- 15 Deficiency Telephone Call
- 16 Deficiency Response Received
- 17 Threat to Abandon/Deny Letter Sent
- 18 Response to Abandon/Deny Letter Received
- 19 Outside Assistance Requested
- 20 Response to Outside Request
- 21 Technical Review Complete
- 22 Licensing Action Completed
- 23 Void
- 24 Denial
- 25 Abandonment

Reviewer Code: _____