NRC FORM 313
(1-84)
10 CFR 30, 32, 33, 34, 35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 5-31-87

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

L-L-23577

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)*

- [X] A. NEW LICENSE
- [ ] B. AMENDMENT TO LICENSE NUMBER _____
- [ ] C. RENEWAL OF LICENSE NUMBER _____

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

Brinderson Corp.
P.O. Box 990
Bremerton, WA 98310

30-22530

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

Brinderson Corp.
South of Bldg. 874
PSNS
Bremerton, WA 98314

And at temporary job sites 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

James W. Alban

TELEPHONE NUMBER: 206-373-4322

SUBMIT ITEMS 5 THROUGH 11 ON 8½ 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.

See Attachment A

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

See Attachment A

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

See Attachment A

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

See Attachment A

9. FACILITIES AND EQUIPMENT.

See Attachment B

10. RADIATION SAFETY PROGRAM.

See Attachment C

11. WASTE MANAGEMENT.

Troxler Electronics Lab

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. Alban	James W. Alban	CQC Manager	11-25-85

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

- [ ] <$250K
- [ ] $250K–500K
- [ ] $500K–750K
- [X] $750K–1M
- [ ] $1M–3.5M
- [ ] $3.5M–7M
- [ ] $7M–10M
- [ ] >$10M

b. NUMBER OF EMPLOYEES *(Total for entire facility excluding outside contractors)*: 17

c. NUMBER OF BEDS: -0-

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

519382

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
APP	NOV. 1 K	3P	8603210117 860108 REG5 LIC30 46-23577-01 PDR	
AMOUNT RECEIVED	**CHECK NUMBER**			**DATE**
$230	1190 Brinderson Enterprises Joint Venture			12/3/85

PRIVACY ACT STATEMENT ON THE REVERSE

ATTACHMENT A

ITEM #5

a. Radionuclei	b. Form	c. Troxler Dwg. #	d. Maximum Amt.
CS-137	Special Form	A-102112	Not to exceed 9mc: per source
AM-241:BE	Special Form	A-102451	Not to exceed 44mc: per source

ITEM #6

To be used in Troxler Model 3400 series surface moisture/density gauge.

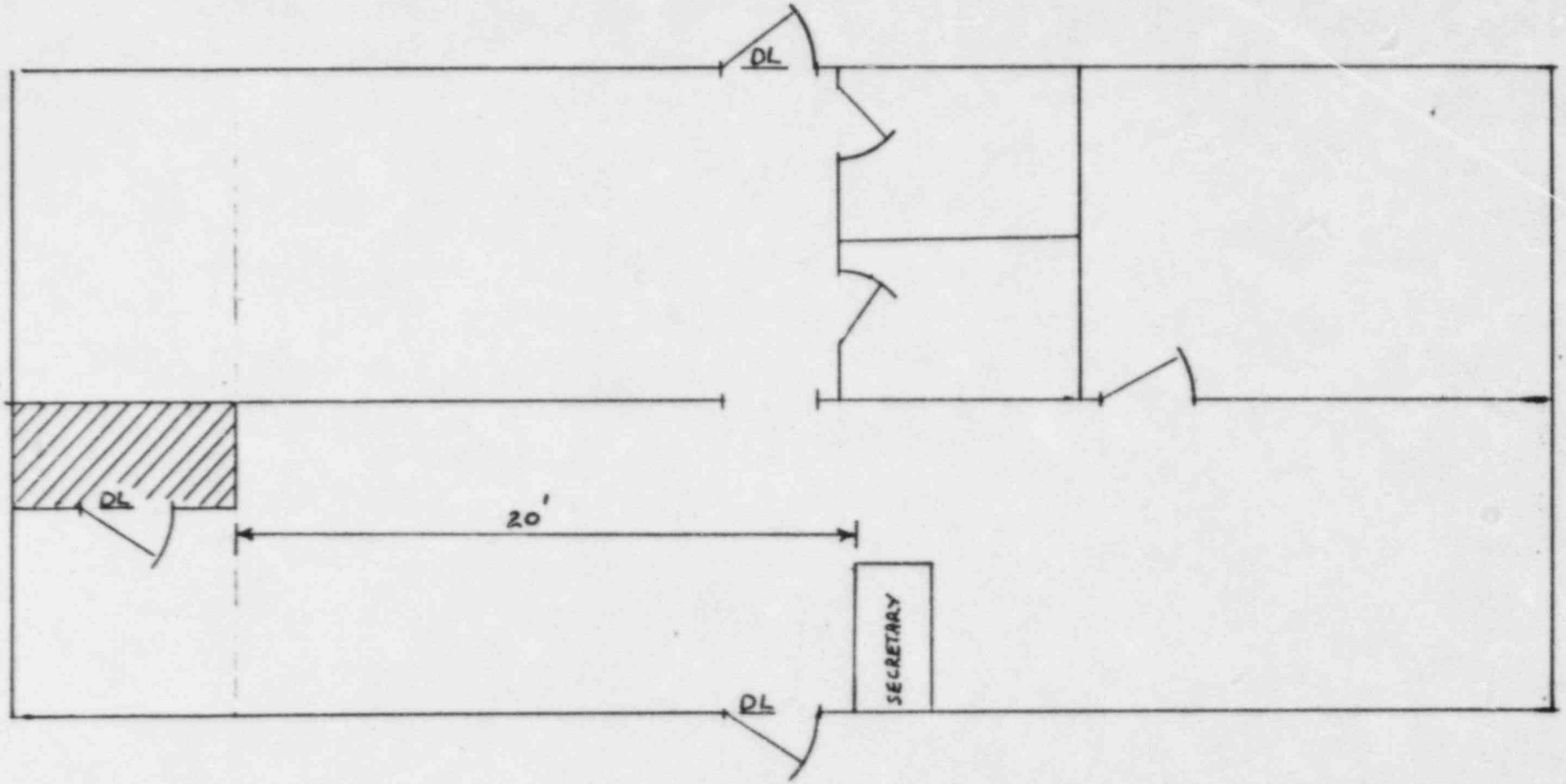
ITEM #7

James W. Alban
John (Jay) Bartram

ITEM #8

All operators will have attended the Troxler Safety Course prior to using the gauge. A list of all persons having taken the Troxler Safety Course will be on file along with a copy of their certification.

QA-QC TRAILER - PLAN VIEW

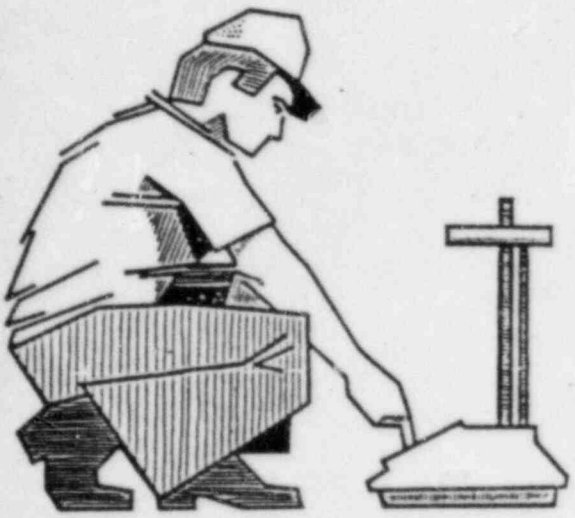


INDICATES AREA OF STORAGE FOR TROXLER SERIES 3400 GAUGE.

N

DL- INDICATES DOOR WITH LOCK (JIM ALBAN & JAY BARTRAM HAS KEYS)

Nuclear Gauge and Radiation Safety Training by Troxler



TROXLER ELECTRONIC LABORATORIES, INC. historically has stressed the necessity for a comprehensive, in depth, course of instruction that leads to an understanding of nuclear theory as it relates to our total gauge line, field applications, gauge calibration and radiological safety. Proper field operation and maintenance procedures are stressed to ensure that tests are performed with maximum effectiveness and that the resulting data is accurately interpreted.

Troxler engineers conduct these instructional programs with support from research, service and experienced field personnel. An effort is made to tailor the presentation of subject matter to the background and experience of the program participants. Group interaction and discussion of the material being presented is encouraged.

TRAINING SCHEDULE SUBJECTS

I. RADIOLOGICAL SAFETY
- A. Atomic Structure
- B. Radiation Characteristics
  1. Types of Radiation
  2. Types of Sources
  3. Units of Radiation Dose
- C. Hazards of Exposure to Radiation
- D. Levels of Radiation from Troxler Gauges
- E. Methods of Controlling Radiation Dose
  1. Working Time
  2. Working Distance
  3. Shielding
- F. NRC and State Regulations
  1. Handling Procedures
  2. Personnel Monitoring
  3. Security
  4. Records and Reports
  5. Incidents
  6. Transport and Shipping
- G. Leak Test Procedures

II. THEORY OF MEASUREMENT
- A. Gamma Radiation and Matter
- B. Test Modes
- C. Neutron Radiation and Matter

III. FIELD MEASUREMENT PROCEDURES AND GAUGE APPLICATION

IV. DEMONSTRATION OF GAUGE OPERATION AND FIELD MEASUREMENT

V. FACTORY CALIBRATION

VI. PERIODIC MAINTENANCE

VII. FIELD TROUBLESHOOTING AND SERVICE

VIII. COURSE REVIEW

KENNETH J. PRATHER
Northwestern Branch Manager

Troxler Electronic Laboratories, Inc.
Northwestern Branch, 18222 - 19th Dr. S.E.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JAMES W. ALBAN

of

BRINDERSON CORPORATION

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC. TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. *Principles and practices of radiation protection.*
2. *Leak testing procedures.*
3. *Mathematics and calculations basic to the use and measurement of radioactivity.*
4. *Biological effects of radiation.*
5. *Radioactivity measurement standardization and monitoring techniques and instruments.*
6. *Accident and incident procedures.*
7. *Procedures for nuclear gauge storage and transportation.*
8. *General safety precautions.*

Gauge Operation

1. *Instrument theory*
2. *Operating procedures*
3. *Maintenance*
4. *Field application*
5. *Gauge calibration*

Kenneth Bratton
INSTRUCTOR

9/16/85
DATE

W.F. TROXLER
PRESIDENT

№ 12149

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JAY BARTRAM

of

BRINDERSON CORPORATION

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC. TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. *Principles and practices of radiation protection.*
2. *Leak testing procedures.*
3. *Mathematics and calculations basic to the use and measurement of radioactivity.*
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Gauge Operation

1. *Instrument theory*
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3. *Maintenance*
4. *Field application*
5. *Gauge calibration*

INSTRUCTOR

9/16/85
DATE

W.F. TROXLER
PRESIDENT

№ 12148