

FORM NRC-313 I (1-79) 10 CFR 30		U.S. NUCLEAR REGULATORY COMMISSION 1. APPLICATION FOR: <i>(Check and/or complete as appropriate)</i>		
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL		a. NEW LICENSE b. AMENDMENT TO LICENSE NUMBER 50-19401-01 c. RENEWAL OF LICENSE NUMBER 50-19401-01		
See attached instructions for details. Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D.C. or 7915 Eastern Avenue, Silver Spring, Maryland.		X X		
2. APPLICANT'S NAME <i>(Institution, firm, person, etc.)</i> Ted Forsi and Associates, Inc. (907) 274-9517 TELEPHONE NUMBER - AREA CODE - NUMBER EXTENSION	3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Ted J. Forsi (907) 274-9517 TELEPHONE NUMBER - AREA CODE - NUMBER EXTENSION			
4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i> 810 East Ninth Ave., Suite 200 Anchorage, AK 99501	5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i> Primary storage same as item #5. Secondary storage at 35096 Spur Hwy, Soldotna, AK 99669. Used at temporary job sites within the State of Alaska.			
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)				
6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL <i>(See Items 16 and 17 for required training and experience of each individual named below)</i>				
FULL NAME		TITLE		
a. Ted J. Forsi		Principal		
b. Nils C. Lindholm		Engineer		
c. Ron Towne		Engineering Technician		
7. RADIATION PROTECTION OFFICER Nils Lindholm		Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15		
8. LICENSED MATERIAL				
L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i> C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	Cesium 137	Sealed Source	Troxler A-102112	One Source 8m Ci
(2)	Americium 241	Sealed Source	Troxler A-102541	One Source 40m Ci
(3)				
(4)				
DESCRIBE USE OF LICENSED MATERIAL E				
(1)	Sealed in one Troxler Electronic Laboratories, Inc. model 3401 surface gauge,			
(2)	which will be used to measure the moisture and density of engineering materials.			
(3)	8510310155 850926 REGS LIC30 50-19401-01 PDR			
(4)				

9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	Portable Moisture Density Guage	Troxler Electronic Laboratories, Inc.	3401
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A.	MANUFACTURER'S NAME B.	MODEL NUMBER C.	NUMBER AVAILABLE D.	RADIATION DETECTED (alpha, beta, gamma, neutron) E.	SENSITIVITY RANGE (microrentgens/hour or counts/minute) F.
(1)	N/A					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☐ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY

N/A

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

N/A

12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate) A.	SUPPLIER (Service Company) B.	EXCHANGE FREQUENCY C.
<input type="checkbox"/> (1) FILM BADGE		<input type="checkbox"/> MONTHLY
<input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)		<input type="checkbox"/> QUARTERLY
<input type="checkbox"/> (3) OTHER (Specify): _____ _____		<input type="checkbox"/> OTHER (Specify): _____ _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.

☒ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (Fixed and/or temporary), ETC.

See Attachment

☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.

☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

Source will be returned to manufacturer.

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. **FORMAL TRAINING IN RADIATION SAFETY.** Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
17. **EXPERIENCE.** Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

August 1-2

Applicant.....
Civil No. <i>7572</i>
License Fee Category <i>1120-34</i>
Type of Fee <i>Recurring</i>
DATE Code-A Recd. <i>9/11/85</i>
Received By <i>Jacques</i>

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our 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.

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature) <i>Nils Lindholm</i>
	c. NAME (Type or print) Nils Lindholm
(1) LICENSE FEE CATEGORY:	d. TITLE Civil Engineer
(2) LICENSE FEE ENCLOSED: \$	e. DATE 7/27/85

TED FORSI AND ASSOCIATES, INC. - LIC. NO. 50-19301-01

APPLICATION FOR AMENDMENT TO AND RENEWAL OF LICENSE ATTACHMENT PAGE

7. Previously submitted.

13. Storage facility at given Anchorage address shall be a closet in the lower level garage (SW corner of building) with a single locked entrance keyed with a keyset dissimilar to all other building keys and held only by listed operators.

Storage facility at given Soldotna address shall be a closet at the NW corner of the single-story building with a single locked entrance keyed with a padlock key dissimilar to all other building keys and held only by listed operators. Both closets are secure, integral parts of the buildings in little-used areas of the buildings on the ground floors with reinforced-concrete floors.

15. Previously submitted.

16. Photocopies attached.

17. Previously submitted/attached.

63% COTTON

EXCELEBASE

by

FOX RIVER

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

NILS LINDHOLM

of

TED FORSI AND ASSOCIATES, INC.

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

5/21/80

DATE

W. F. TROXLER

PRESIDENT

INSTRUCTOR

70234

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TED FORSL
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8. General safety precautions.

Gauge Operation

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

W. F. Troxler
INSTRUCTOR

1/26/83

DATE

W. F. TROXLER
PRESIDENT

Nº 01240