

## MATERIALS LICENSE

Amendment No. 03

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

## OFFICIAL RECORD COPY

Licensee		In accordance with the letter dated January 28, 1997, 3. License Number 29-28215-01 is amended in its entirety to read as follows:	
1. Somerset County, Engineering Department			
2. 20 Grove Street P.O. Box 3000 Somerville, NJ 08876		4. Expiration Date March 31, 2004	
		5. Docket or Reference No. 030-30599	
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Cesium 137 B. Americium 241	A. Sealed sources B. Sealed neutron sources	A. 100 millicuries B. 500 millicuries	

## 9. Authorized use

- A. and B. For possession and use in Troxler Electronic Laboratories, Inc., Campbell Pacific Nuclear Corp., Humboldt Scientific, Inc., Seaman Nuclear Corporation, or Soiltest, Incorporated devices which have been evaluated and approved for licensing purposes under a license issued by the U.S. Nuclear Regulatory Commission or any Agreement State.

## CONDITIONS

10. Licensed material may be stored at the licensee's facilities located at 20 Grove Street, Somerville, New Jersey and may be used only at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. Licensed material shall only be used by, or under the supervision and in the physical presence of, James K. Shelley or individuals who have successfully completed the manufacturer's training program for gauge users, have been instructed in the licensee's routine and emergency operating procedures and who have been designated in writing by the Radiation Safety Officer.
12. The Radiation Safety Officer for this license is James K. Shelley.
13. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.

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SUPPLEMENTARY SHEET

License Number

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Docket or Reference Number

030-30599

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- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

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16. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
17. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
18. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application dated May 11, 1988
  - B. Letter dated October 10, 1989
  - C. Letter dated July 20, 1993
  - D. Letter dated January 28, 1997

MAR - 3 1997

Date \_\_\_\_\_

For the U.S. Nuclear Regulatory Commission

Original Signed By:

Judith A. Joustra

By

Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

MAR - 3 1997

Mr. Gary C. Cortelyou  
Principal Construction Engineer  
Somerset County Engineering Department  
20 Grove Street  
P.O. Box 3000  
Somerville, New Jersey 08876-1262

Dear Mr. Cortelyou:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:  
Judith A. Joustra

Judith A. Joustra  
Division of Nuclear Materials Safety

License No. 29-28215-01  
Docket No. 030-30599  
Control No. 124196

Enclosure:  
Amendment No. 03

OFFICIAL RECORD COPY

ML 10

DOCUMENT NAME: R:\WPS\MLTR\L2928215.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	<input checked="" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	JJoustra <i>JJB</i>						
DATE	02/05/97	02/ /97	02/ /97	02/ /97	02/ /97	02/ /97	02/ /97

OFFICIAL RECORD COPY



Director of Public Works/  
County Engineer  
MICHAEL J. AMOROSA  
(908) 231-7024

Assistant County Engineer  
DAVID L. LORIMER  
(908) 231-7024

**COUNTY OF SOMERSET  
DEPARTMENT OF PUBLIC WORKS**

P.O. BOX 3000  
20 GROVE STREET  
COUNTY ADMINISTRATION BUILDING  
SOMERVILLE, NEW JERSEY 08876-1262

Bridge Superintendent  
DENNIS J. KOSENSKY

Facilities and Services Director  
STEPHEN J. KRACHUN

Coordinator, Emergency Management  
LEROY GUNZELMAN, III

Director of Planning  
ROBERT P. BZIK

Recycling Superintendent  
WILLIAM J. SALLER, JR.

Road Supervisor  
WILLIAM J. HIGGINS

Supervisor, Traffic Safety Services  
JOHN A. MALECKI

Transportation Director  
YVONNE MANFRA

Vehicle Maintenance Supervisor  
LOUIS J. NICKOLOPOULOS

January 28, 1997

Jen Johansen  
Branch Chief  
U.S.N.R.C.  
Region 1  
475 Allendale Road  
King of Prussia, PA 19406

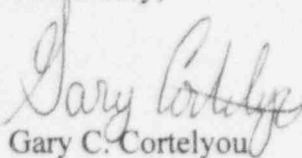
Re: Somerset County Engineering Department  
License No. 29-28215-01  
Docket No. 030-30599

Dear Mrs. Johansen:

In accordance with NRC regulations, this letter shall serve as notice that John S. Liznaski has permanently resigned from all duties as radiation safety officer under the above referenced license. Effective January 17, 1997, James K. Shelley will assume all responsibilities of radiation safety officer. Accordingly, this office requests an amendment to said license reflecting the change in personnel. Attached is a copy of Mr. Shelley's certification from Troxler Electronic Laboratories training course in nuclear testing equipment.

Also attached is a voucher for the \$300.00 fee associated with the amendment to the license. This voucher requires your signature and return postage. Upon receipt a check will then be forwarded in the stated amount.

Yours truly,



Gary C. Cortelyou  
Principal Construction Engineer

cc: J. McGrath, USNRC

124196  
JAN 31 1997

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JAMES K. SHELLEY

of

SOMERSET COUNTY

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

Frank D. Jones  
INSTRUCTOR

October 17, 1989  
DATE

William F. Troxler  
PRESIDENT

No 30498

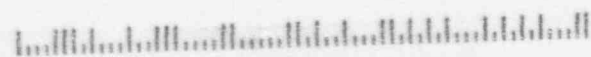
AFTER 5 DAYS RETURN TO  
ENGINEERING DEPARTMENT  
COUNTY OF SOMERSET

P.O. BOX 3000  
COUNTY ADMINISTRATION BUILDING  
SOMERVILLE, N.J. 08876-1262

KILMER P&DC NJ 01/29/97 19:41 ISS#3

Jen Johansen, Branch Chief  
U.S.N.R.C.  
Region 1  
475 Allendale Road  
King of Prussia, PA 19406

1340671413





## LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH  
DIVISION OF ACCOUNTING AND FINANCE  
OFFICE OF THE CONTROLLER  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001SOMERSET COUNTY ENGINEERING DEPT.  
ATTN: JAMES K. SHELLEY  
RADIATION SAFETY OFFICER  
DEPARTMENT OF PUBLIC WORKS  
P.O. BOX 3000  
20 GROVE STREET  
SOMERVILLE, NJ 08876-1262

## TYPE OF ACTION

- ☐ NEW LICENSE  
☐ RENEWAL OF LICENSE  
☒ AMENDMENT TO LICENSE

REQUESTED DATE

1-28-97

LICENSE NUMBER

29-28215-01

CONTROL NUMBER

124196

## I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3P	\$	\$	\$ 300.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(S) DUE	\$	300.00
PAYMENT RECEIVED	\$	0.00
AMOUNT DUE	\$	300.00

- ☒ Your request was received without the prescribed application fee.
- ☐ We received your Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. Payment of the additional fee noted above is required.
- ☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).
- ☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

## II. FEE NOT REQUIRED

- ☐ Enclosed is Check No. \_\_\_\_\_ which accompanied your request. The fee is not required because:
- ☐ We received your Check No. \_\_\_\_\_ in payment of the fee.
- ☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated \_\_\_\_\_, Control No. \_\_\_\_\_.
- ☐ Your request was combined, prior to review, with your request, Control No. \_\_\_\_\_.

## III. CHECK RETURNED

- ☐ Enclosed is Check No. \_\_\_\_\_ which was returned to us by the bank for:
- ☐ INSUFFICIENT FUNDS
- ☐ ACCOUNT CLOSED
- ☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

## IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

- ☐ License No. \_\_\_\_\_ Amendment No. \_\_\_\_\_, issued on \_\_\_\_\_, was issued without the required fee being collected. The fee required is noted in Section I of this form.
- ☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section 1 of this form. Refer to Section 170.31 and Footnote 1(d)(2).
- ☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section 1 of this form.

SIGNATURE -- LICENSE FEE ANALYST

LFDCB

LFDCB

Distribution:

DATE

BRENDA BROWN 301-415-6055

BB *BB*  
3/7/97Region I  
Pending  
BBrown  
LFAR R/F  
OC/DAF R/F  
OC/DAF S/F (LF-3.2.7)

3-7-97

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)  
INFORMATION FROM LTS  
-----

PROGRAM CODE: 03121  
STATUS CODE: 0  
FEE CATEGORY: 3P  
EXP. DATE: 20040331  
FEE COMMENTS: OK GJ  
DECOM FIN ASSUR REQD: N  
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: SOMERSET COUNTY ENGINEERING DEPT.  
RECEIVED DATE: 970131  
DOCKET NO: 3030599  
CONTROL NO.: 124196  
LICENSE NO.: 29-28215-01  
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: -----  
CHECK NO.: -----

3. COMMENTS

SIGNED M. A. Perkins  
DATE 2/3/97

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1)

1. FEE CATEGORY AND AMOUNT: 3P \$3.00

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT -----  
RENEWAL -----  
LICENSE -----

3. OTHER -----

SIGNED -----  
DATE -----

I (97)  
Log 1st 11  
Number COUNTY OF SOMERSET  
Check No. 319351  
Amount \$ 3.00  
Category 3P  
Type AMP  
Date Computed 4/16/97  
By RB

1997 FEB - 6 AM 9:52