

B. G. DANIS COMPANY  
HEAVY AND HIGHWAY DIVISION



May 12, 1987

Dr. Bruce Mallett  
Chief of Materials Licensing  
Glen Ellyn, Illinois 60137

Re: Termination of License  
Number 34-19264-01

030-17238

Gentlemen:

We request the termination of the B. G. Danis Company Materials License 34-19264-01.

We are transferring our two gauges, Serial No. 6002 and Serial No. 7296, to the G. E. Ray Company, South Charleston, West Virginia, 25309.

The G. E. Ray License Number is 47-19499-01.

We had used the two gauges on highway projects in West Virginia. We no longer have a need for these gauges.

The two gauges are currently being stored at the G. E. Ray Company, 5715 Kanawha Turnpike, South Charleston, West Virginia 25309.

Please find attached, for your information, a copy of both License and a copy of the most recent Leak Test Analysis.

Very truly yours,

B. G. DANIS COMPANY  
Div. of DANIS INDUSTRIES Corp.

A handwritten signature in cursive script, appearing to read 'Ward L. Johnson'.

Ward L. Johnson, P.E.  
Vice President  
Heavy and Highway Division

RECEIVED

MAY 21 1987

REGION III

CONTROL NO. 83632

1518 East First Street  
P.O. Box 1722 • Dayton, Ohio 45401-1722  
Phone (513) 228-1225

RECEIVED BY LFMB

Date 5/29/87  
Log May 28<sup>TH</sup>  
By J.  
Eng To  
Region Compl. 6/4/87

RECEIVED

MAY 29 1987

dw  
Attachment  
cc: B. Hilborn  
R. McAllister

8801250097 870723  
REG LIC30  
34-19264-01 PDR

Term,

Heavy Construction • Earthmoving • Site Development • Structures  
Utilities • Paving • Mine Industry Construction • Mining

Radionuclide: CS137 Am241BE  
Source Serial: CC4537, CAA3507  
Inst. Model: 341B  
Inst. Serial: 7296  
Date of Wipe: 2-20-87  
Individual's Name: John Henry  
Telephone: 304 766-7271

PLEASE TYPE OR PRINT LEGIBLY -  
THIS IS YOUR RETURN ADDRESS LABEL

- E. RAY CONST. CO.
- P.O. BOX 9335
- SOUTH CHARLESTON, WV 25309

Troxler Electronic Laboratories, Inc., P.O. Box 12057, Research Triangle Park, N. C. 27709 919/549-8661 Telex 6844902 TROXL UW

### Leak Test Analysis

Removable Activity	
Beta Gamma	Alpha
<u>0</u> $\mu\text{Ci}$	<u>0</u> $\mu\text{Ci}$
<u>D. Beasley</u>	
Certification	
Date: <u>4-7-87</u>	

### NOTES

1. Follow procedures as defined in your leak test kit instructions.
2. Fill out this form and the bag label with required information where applicable. Seal the filter paper in the plastic bag. Place the plastic bag and this form in the pre-addressed envelope.
3. Removable activity will be reported in  $\mu\text{Ci}$ . A value of "0" indicates less than .00005  $\mu\text{Ci}$ .
4. Federal and state regulations require that sealed sources be removed from service and reports filed if removable activity is greater than .005  $\mu\text{Ci}$ .
5. Due to the potential hazard, Troxler recommends that an additional wipe be made if removable activity exceeds .0005  $\mu\text{Ci}$ .
6. You will be notified by telephone collect if the test yields greater than .001  $\mu\text{Ci}$  removable activity.

ORIGINAL COPY

Radionuclide: Am241BE, CS137  
Source Serial: CAA-3053, CC3737  
Inst. Model: 3411-B  
Inst. Serial: 6802  
Date of Wipe: 1-5-87  
Individual's Name: Roger Burdette  
Telephone: (304) 766-7271

PLEASE TYPE OR PRINT LEGIBLY -  
THIS IS YOUR RETURN ADDRESS LABEL

- G.E. RAY CONST. CO.
- P.O. BOX 9335
- SOUTH CHARLESTON, WV 25309

### Leak Test Analysis

Removable Activity	
Beta Gamma	Alpha
<u>0</u> $\mu\text{Ci}$	<u>0</u> $\mu\text{Ci}$
<u>D. Beasley</u>	
Certification	
Date: <u>3-11-87</u>	

### NOTES

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6. You will be notified by telephone collect if the test yields greater than .001  $\mu\text{Ci}$  removable activity.

ORIGINAL

Troxler Electronic Laboratories, Inc., P.O. Box 12057, Research Triangle Park, N. C. 27709 919/549-8661 Telex 6844902 TROXL UW

## MATERIALS LICENSE

Amendment No. 02

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, 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.

## Licensee

1. B. G. Danis Company
2. P.O. Box 1722  
Dayton, OH 45401-1722

In accordance with letter dated  
December 21, 1984

3. License number 34-19264-01 is amended in its entirety to read as follows:

4. Expiration date July 31, 1990

5. Docket or Reference No. 030-17238

6. Byproduct, source, and/or special nuclear material

A. Cesium-137

B. Americium-241

7. Chemical and/or physical form

A. Sealed source  
(Troxler Dwg. No. A-102112)

B. Sealed source  
(Troxler Dwg. No. A-102451)

8. Maximum amount that licensee may possess at any one time under this license

A. No single source to exceed 10 millicuries

B. No single source to exceed 50 millicuries

9. Authorized Use

A. and B. To be used in Troxler Series 3400 moisture/density gauges to measure moisture/density of construction materials.

## CONDITIONS

10. Licensed material may be used at the licensee's facilities located at 1518 E. First Street, Dayton, Ohio, Green Sulphur Springs, WV and 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. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision and in the physical presence of, Patrick Mullen, Mike Treon, or Charles Smith.

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CONTROL NO. 83682

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

34-19264-01

Docket or Reference number

030-17238

Amendment No. 02

13. A. Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.
- D. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated December 28, 1979 for analysis by Tröxler Electronics. Alternatively, leak test samples may be collected and/or analyzed by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. Sealed sources containing licensed material shall not be opened or removed from the moisture/density gauge by the licensee.
15. The licensee shall conduct a physical inventory every six (6) months to account for all gauges received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the gauges and the date of the inventory.
16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number 34-19264-01

Docket or Reference number  
030-17238

Amendment No. 02

17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated December 28, 1979 and letters dated December 21, 1984 and May 2, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



For the U.S. Nuclear Regulatory Commission

Date

JUL 25 1985

By

*Bruce Malitt*

Materials Licensing Section, Region III



## MATERIALS LICENSE

Amendment No. 02

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, 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.

## Licensee

1. G. E. Ray Construction Co., Inc.  
P. O. Box 9335
2. South Charleston, West Virginia 25309

In accordance with letter dated  
July 15, 1985

3. License number

47-19499-01 is amended to

read as follows:

4. Expiration date

August 31, 1990

5. Docket or  
Reference No.

030-17796

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

A. Sealed Sources (Troxler  
Dwg. A-102112)

A. Not to exceed 10 milli-  
curies per source

B. Americium 241

B. Sealed Sources (Troxler  
Dwg. A-102451)

B. Not to exceed 50 milli-  
curies per source

9. Authorized use

A. and B. For use in Troxler Models 3401, 3401B, 3411, and 3411B gauges to measure  
properties of materials.

## ★ CONDITIONS ★

10. Licensed material shall be used only at the licensee's facilities in South Charleston, West Virginia and 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. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision and in the physical presence of, Opha Robert Coontz or ~~an individual who has completed the Troxler or the State of West Virginia Highway Department training course and has received training in the licensee's operating and emergency procedures.~~

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number:

47-19499-01

Docket or Reference number:

030-17796

Amendment No. 02

(cont'd)

## CONDITIONS

13. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- (2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U.S. Nuclear Regulatory Commission, Region 14, Division of Radiation Safety and Safeguards, Nuclear Materials Safety Section, 101 Marietta Street, Suite 2900, Atlanta, Georgia 30323, describing the equipment involved, the test results, and the corrective action taken.
- D. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated August 1, 1980, for analysis by Troxler. Alternatively, leak test samples may be collected and/or analyzed by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. Sealed sources containing licensed material shall not be opened or removed from the portable moisture/density gauges by the licensee.
15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of licensed material, location of sealed sources, and the date of the inventory.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

47-19499-01

Docket or Reference number

030-17796

Amendment No. 02

(cont'd)

## CONDITIONS

16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated August 1, 1980; and letters dated January 9, 1984, and July 15, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

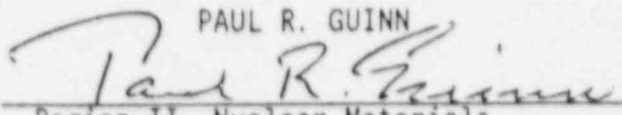


FOR THE U.S. NUCLEAR REGULATORY COMMISSION

PAUL R. GUINN

Date AUG 13 1985

By

Region II, Nuclear Materials  
Safety Section101 Marietta Street, Suite 2900  
Atlanta, GA 30323