

MATERIALS LICENSE

Amendment No. 06

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.

Licensee

1. Dodson-Stilson, Inc.

2. 6121 Huntley Road
Columbus, OH 43229In accordance with application dated
May 16, 19963. License Number 34-18933-01 is renewed in
its entirety as follows:

4. Expiration Date October 31, 2001

5. Docket or
Reference No. 030-173746. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This License

A. Cesium-137

A. Sealed source
(Troxler Dwg. No.
A-102112)A. Thirty sources not
to exceed 10
millicuries each

B. Americium-241

B. Sealed source
(Troxler Dwg. No.
A-102451)B. Thirty sources not
to exceed 50
millicuries each

C. Cesium-137

C. Sealed source
(Campbell Pacific
Nuclear Model No.
CPN-131)C. Ten sources not
to exceed 10
millicuries each

D. Americium-241

D. Sealed source
(Campbell Pacific
Nuclear Model No.
CPN-131)D. Ten sources not
to exceed 50
millicuries each

9. Authorized Use:

A. and B. To be used in Troxler Model 3400 Series surface moisture/density gauges.

C. and D. To be used in Campbell Pacific Nuclear Model MC Series surface
moisture/density gauges.CONDITIONS

10. Licensed material may be stored at 6035 Huntley Road, Columbus, Ohio and may be used 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.

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C PDR

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

48-18933-01

Docket or Reference Number

030-17374

Amendment No. 06

11. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have completed the gauge manufacturer's training course and have been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.
12. The Radiation Protection Officer for the activities authorized by this license is Barry K. H. Wong.
13. A. (1) The source(s) specified in Item(s) 7.A. through 7.D. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
C. 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, Lisle, Illinois 60532-4351, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
D. The licensee is authorized to collect leak test samples for analysis by Troxler or tests for leakage and/or contamination shall be performed by persons specifically licensed 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 gauges by the licensee.

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

48-18933-01

Docket or Reference Number

030-17374

Amendment No. 06

15. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. 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.
18. The licensee shall conduct refresher training for all employees at intervals of no greater than one year.
19. 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. Applications dated May 16, 1995 and September 18, 1996.
 - B. Letter dated September 18, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

By

Patricia M. Vacherlon
Patricia M. Vacherlon

Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03121
STATUS CODE: 2
FEE CATEGORY: 3P
EXP. DATE: 19950630
FEE COMMENTS:
DECOM FIN ASSUR RECDT N
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: MASON-DE VERTEUIL GEOTECHNICAL SERV
RECEIVED DATE: 950519
DOCKET NO: 3017374
CONTROL NO.: 398603
LICENSE NO.: 34-18933-01
ACTION TYPE: RENEWAL

2. FEE ATTACHED
AMOUNT: 680
CHECK NO.: 3735

3. COMMENTS

SIGNED _____
DATE 5-23-95 *D. Hershey*

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

1. FEE CATEGORY AND AMOUNT: 3P \$680⁰⁰

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT _____
RENEWAL ☒ _____
LICENSE _____

3. OTHER _____

SIGNED _____
DATE 5/26/95 *SC*

RECEIVED
MAY 30 1995
REGION III

Log	May 13 11
Remitter	
Check No.	3735
Amount	\$680 ⁰⁰
Fee Category	3P
Type of Fee	Renewal
Date Check Rec'd	5-25-95
Date Completed	5-26-95
By:	SC

1995 MAY 25 PM 12:11

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2800
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

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 JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☒ C. RENEWAL OF LICENSE NUMBER 34-18933-01

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

Mason - de Verteuil Geotechnical
Services Division of Dodson-Lindblom
Associates, Inc.
6121 Huntley Road
Columbus, Ohio 43229

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

Mason - de Verteuil Geotechnical Services
Division of Dodson-Lindblom Associates, Inc.
6035 Huntley Road
Columbus, Ohio 43229

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Barry K.H. Wong

TELEPHONE NUMBER
(614) 888-0576

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 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 3P

AMOUNT
ENCLOSED 680.00

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, 36, 39 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, 1946 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Barry K.H. Wong, Field Services Manager

SIGNATURE

DATE

5-16-95

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

RECEIVED

MAY 19 1995

398603



MASON de VERTEUIL GEOTECHNICAL SERVICES

A DLZ Company

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS TESTING • DRILLING

May 11, 1995

Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Re: Material License Renewal
License Number: 34-18933-01

Dear Sir/Madame:

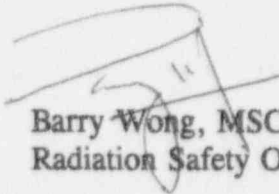
We wish to request a renewal of our materials license. All conditions including those listed in our last amendment (No. 4) dated January 27, 1994 are unchanged. Our current license expires on June 30, 1995.

I have enclosed the \$680.00 renewal fee.

Please call if you have any questions.

Sincerely,

MASON - de VERTEUIL GEOTECHNICAL SERVICES


Barry Wong, MSCE, P.E.
Radiation Safety Officer

BW:vc1

Attach: NRC Form 313, Questions 5 to 11
Materials License Amendment No. 1
Materials License Amendment No. 2
Materials License Amendment No. 3
Materials License Amendment No. 4

Copies: NRC - 2
File - 1

RECEIVED

MAY 19 1995

REGION III



5. RADIOACTIVE MATERIAL

a.) Byproduct, source, and/or special nuclear material	b.) Chemical and/or physical form	c.) Maximum amount that licensee may possess at any one time under this license
A. Cesium-137	A. Sealed source (Troxler Dwg. No. A-102112)	A. Thirty sources not to exceed 10 millicuries each
B. Americium-241	B. Sealed source (Troxler Dwg. No. A-102451)	B. Thirty sources not to exceed 50 millicuries each
C. Cesium-137	C. Sealed source (Campbell Pacific Nuclear Model No. CPN-131)	C. Ten sources not to exceed 10 millicuries each
D. Americium-241	D. Sealed source (Campbell Pacific Nuclear Model No. CPN-131)	D. Ten sources not to exceed 50 millicuries each

6. PURPOSES FOR WHICH LICENSED MATERIAL WILL BE USED

To be used in Troxler Model 3400 Series surface moisture/density gauges and to be used in Campbell Pacific Nuclear Model MC series surface moisture/density gauges.

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

Radiation Safety Officer - Barry K. H. Wong, MSCE, P.E.

Experience and Qualifications

- MSCE in Civil Engineering, The Ohio State University, 1987
- Operation of Troxler Moisture-Density Gauges since 1987
- Attended Troxler Training Nuclear Gauge Safety Training provided by Troxler Electronic in 1987
- Supervision and use of Troxler 3400 Series Moisture-Density Gauges since 1990. Presently, Field Service Supervisor.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

All authorized users have successfully completed gauge manufacturer's course.

9. FACILITIES AND EQUIPMENT

Please see attached map for gauge storage area.

10. RADIATION SAFETY PROGRAM

Please refer to attached Safety Operating Procedures, Transporting Radioactive Gauges and Gauge Densometer Inventory.

11. WASTE MANAGEMENT

All disposal of licensed materials were returned to original supplier (Troxler Electronic).

MATERIALS LICENSE

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, 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.

Licensee

1. Mason-de Verteuil Geotechnical Services
Division of Dodson-Lindblom Assoc., Inc.

2. 6035 Huntley Road
Columbus, OH 43229

In accordance with letter dated
January 27, 1994

3. License number 34-18933-01 is amended in
its entirety as follows:

4. Expiration date June 30, 1995

5. Docket or
Reference No 030-17374

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 source
(Troxler Dwg. No.
A-102112)

A. Thirty sources not
to exceed 10
millicuries each

B. Americium-241

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

B. Thirty sources not
to exceed 50
millicuries each

C. Cesium-137

C. Sealed source
(Campbell Pacific
Nuclear Model No.
CPN-131)

C. Ten sources not
to exceed 10
millicuries each

D. Americium-241

D. Sealed source
(Campbell Pacific
Nuclear Model No.
CPN-131)

D. Ten sources not
to exceed 50
millicuries each

9. Authorized Use

A. and B. To be used in Troxler Model 3400 Series surface moisture/density gauges.

C. and D. To be used in Campbell Pacific Nuclear Model MC Series surface
moisture/density gauges.

CONDITIONS

10. Licensed material may be stored at 6035 Huntley Road, Columbus, Ohio and may be used 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
34-18933-01

Docket or Reference number
030-17374

Amendment No. 05

11. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have completed the gauge manufacturer's training course and have been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.
12. The Radiation Protection Officer for the activities authorized by this license is Barry K. H. Wong.
13. A. (1) The source(s) specified in Item(s) 7.A. through 7.D. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, Lisle, Illinois 60532-4351, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. The licensee is authorized to collect leak test samples for analysis by Troxler or tests for leakage and/or contamination shall be performed by persons specifically licensed 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 gauges by the licensee.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

34-18933-01

Docket or Reference number

030-17374

Amendment No. 05

15. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. 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.
18. The licensee shall maintain records of information important to safe and effective decommissioning at the location listed in Item 2. of this license per the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
19. 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 April 15, 1980; and
 - B. Letters dated May 8, 1985, July 23, 1986, July 19, 1989, March 9, 1990 and January 27, 1994.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

Feb. 16, 1994

By

Colleen C. Casey
Materials Licensing Section, Region III



MASON — de VERTEUIL GEOTECHNICAL SERVICES

A DLZ Company

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS TESTING • DRILLING

AUTHORIZED USERS OF RADIOACTIVE EQUIPMENT

Barry Wong
Reggie Hood
Eugene Sabic
Mike Lucas
Gary Corona
Earl Sickles

Randy Van Belkum
Neal Miller
Garrett Rea
Yale Evans
James Rutter
Dan Lawrence

Tim Hampshire
Jeremy Cook
Bill Rectanus
John Thompson
Heather Marsh
Rob Wetmore

SAFE OPERATING PROCEDURES

1. Ohio Radiation Protection Rules are on file. See Radiation Safety Officer. (Barry Wong)
2. Each Moisture-Density gauge is to be leak tested in December and June. (Every 6 months)
3. You are required to wear a radiation badge when operating, transporting or when in the immediate vicinity of a moisture-density gauge.
4. Personnel monitoring records and occupational exposure limits are on file and available upon your request from the radiation safety officer.
5. Keep doors to storage shed locked when the room is not occupied.
6. Keep radiation exposure as low as is reasonably achievable. Limit time of exposure. The further you are from the gauge, the lower the radiation exposure.
7. Do not tamper with gauge source.
8. If your gauge is damaged, lost or stolen do not move it and call Radiation Safety Officer immediately.
9. If there are any questions on radiation safety practices contact the Radiation Safety Officer.

TRANSPORTING RADIOACTIVE GAUGES

1. Source rod must be locked in safe position when not in use.
2. All gauges must be transported in approved transporting case.
3. Gauges should be placed and secured in the furthest point in the vehicle from the driver. Secured means locked in trunk or tied down in bed of pickup.
4. If gauge is not within your sight, it must be locked inside your vehicle or the storage area.

Note: Radiation Safety Officer is Barry Wong, Ext. 589



Nuclear Densometer Inventory

Barry Wong

Gauge No.	Date of Purchased	Serial No.	Model No.	Radioactive Material	Location	Assigned To
11	7/3/91	7029	3411	CS 137 & Am BE 241	Delaware County / Canal Winchester	Yale Evans
13	3/13/87	14122	3411	CS 137 & Am BE 241	Delaware County / Canal Winchester	Randy Van Belkum
14	5/20/87	14336	3411	CS 137 & Am BE 241	Delaware County	Bill Rectanus
15	7/20/87	14726	3440	CS 137 & Am BE 241	Delaware County	John Thompson
16		17240	3440	CS 137 & Am BE 241	Delaware County	Heather Marsh
17	8/25/89	17508	3440	CS 137 & Am BE 241	Hap Cremean WTP	Reggie Hood
18	6/8/90	18621	3440	CS 137 & Am BE 241	Delaware County	James Rutter
19	5/21/91	19578	3440	CS 137 & Am BE 241	Delaware County	Jeremy Cook
20	7/17/92	20976	3440	CS 137 & Am BE 241	Delaware County	Eugene Sabic
21	6/1/93	22024	3440	CS 137 & Am BE 241	Columbus Pump Station	Mike Lucas
22	7/29/93	22278	3440	CS 137 & Am BE 241	Newark WTP	Ben Miller

- Gauge #7 returned to Troxler Inc. for trade in for Gauge #20
- Gauge #12 returned to Troxler Inc. for trade in for Gauge # 19

NOTICE

TO: ALL PERSONNEL

FROM: BARRY WONG, RADIATION SAFETY OFFICER

POSTED: OCTOBER 10, 1994

SUBJECT: THEFT, LOSS OR DAMAGE OF A DENSITY GAUGE CONTAINING
RADIOACTIVE MATERIAL-PROCEDURES

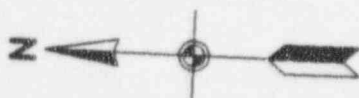
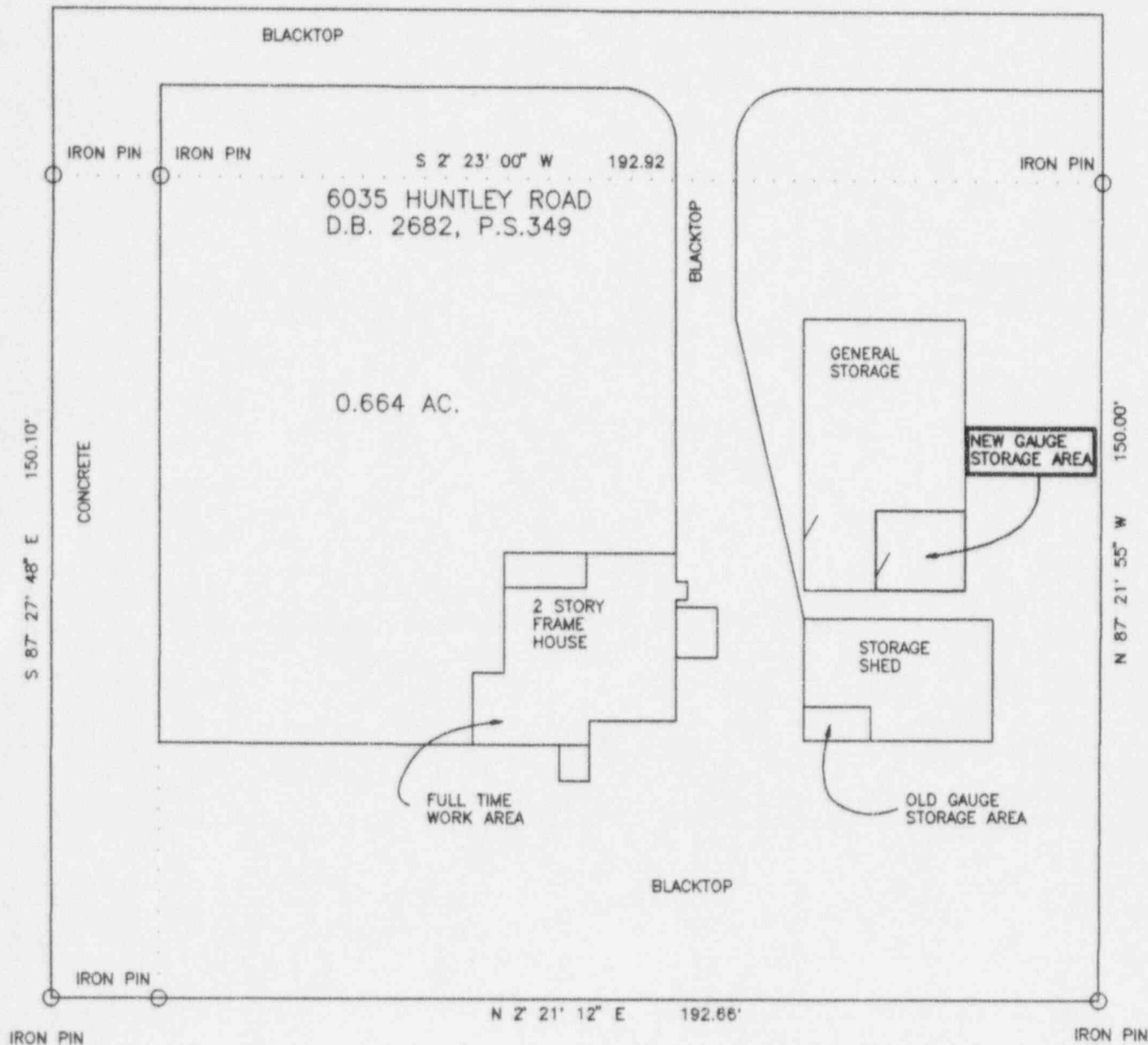
1. All personnel upon discovery of the theft or loss of radioactive material (density gauge) will report the incidence immediately to the Radiation Safety Officer.
2. The Radiation Safety Officer will report to the Ohio Department of Health or Nuclear Regulatory Commission (as applicable), by telephone, immediately after it has been determined that a theft or loss of State of Ohio controlled material has occurred in such quantities that it appears to the RSO that a substantial hazard may result to persons in unrestricted areas.
3. The Radiation Safety Officer will, within 30 days after learning of the loss or theft, make a report in writing to the Ohio Department of Health or Nuclear Regulatory Commission (as applicable). The report will include the following information:
 - a. A description of the material involved, including kind, quantity, chemical, and physical form;
 - b. A description of the circumstance under which the loss or theft occurred;
 - c. A statement of disposition or probable disposition of the material;
 - d. Radiation exposures to individuals, circumstances under which the exposure occurred, and the extent of possible hazard to persons in unrestricted areas;
 - e. Actions which have been taken, or will be taken, to recover the material; and
 - f. Procedures or measures which have been or will be adopted to prevent a recurrence of the loss or theft of licensed material.

If a gauge is lost or stolen, contact:

BARRY WONG WORK: 888-0576, HOME: 798-8929
Ohio Department of Health: 1800-523-4439
U.S. Nuclear Regulatory Commission: 1800-223-3497

HUNTLEY ROAD

TO S.R. 161



**MASON-deVERTEUIL
GEOTECHNICAL SERVICES**

A DLZ Company

GEOTECHNICAL - ENVIRONMENTAL -
MATERIALS TESTING - DRILLING

SITE PLAN

NUCLEAR GAUGE
MVGS STORAGE AREA
6035 HUNTLEY RD.
COLUMBUS, OHIO 43229

DODSON-LINDBLOM ASSOCIATES, INC.
CONSULTING ENGINEERS

8 EAST LONG STREET
COLUMBUS, OHIO 43201

AREA CODE 614 224-1251

FORM 10-64
RECEIVED
MAY 13 1985
REGION III

May 8, 1985

Application 11 May 20 1985
Check # 65451 114.2
Amount \$2,200.00
Date 5/8/85
Class 1228
Received by [Signature]

U.S. Nuclear Regulatory Commission
Region III
Material Licensing Section
799 Roosevelt Road
Glenview, Illinois 60137

Dear Sirs:

With this letter and attachments I am requesting renewal of the Company's license. Some changes are under way here, so the format of NRC Form 313, Application for Material License, will be followed to explain the changes.

Item Number 1: This application is for renewal of License Number 34-18933-01.

Item Number 2: Paul deVerteuil will replace Ronald E. Shields. address and telephone number remain unchanged.

Item Number 3: At Mason-deVerteuil Geotechnical Services, 6035 Huntley Road, Columbus, Ohio 43229 (a division of Dodson-Lindblom Associates, Inc.) and at temporary jobsites anywhere NRC maintains jurisdiction.

Item Number 4: Ronald E. Shields or Paul deVerteuil, (614) 224-1251.

Item Number 5: No change in radioactive material used.

Item Number 6: No change in purpose.

Item Number 7: Paul deVerteuil.

Item Number 8: Radiation Officer, Paul deVerteuil, will maintain a list of personnel qualified by training to use the device. Paul deVerteuil attended the Troxler Electronics Labs, Inc. two-day training course in April, 1974. His experience has been with Mason-deVerteuil on various jobsites around Ohio using the Troxler 2400 series gauges (radium source).

Item Number 9: Storage facility will be at address [REDACTED] number 3.

Item Number 10: No changes made in radiation safety program MAY 13 1985

Item Number 11: No change.

Item Number 12: Category J.P. \$120.00, check enclosed.

Item Number 13: Signed below. REGION III

Other information given on the original application remains unchanged. All information given in this letter and attachments is true and complete.

8504250181 850607
REG 3 LIC 30
34-18933-01 PDR

CONTROL NO. 78935

MAY 13 1985

U.S. Nuclear Regulatory Commission
May 8, 1985

Page 2

Sincerely,

DODSON-LIXDBLON ASSOCIATES, INC.

Ronald E. Shields

Ronald E. Shields
Staff Engineer
Former Radiation Officer

P. deVorteuil

Paul deVorteuil
Assistant Manager, Mason-deVorteuil
Geotechnical Services
Radiation Officer

RES/lm

Enclosures

CONTROL NO. 78935

HUNTLEY ROAD

SPRINKLER

60'

EDGE OF PAVEMENT

BLACKTOP

35 2° 23' 00" W

192.02' 8.1

IRON PIN

IRON PIN

6035 HUNTLEY ROAD

D.B. 2682, P. 5.349

0.664 AC.

FULL TIME
WORKING AREA

150.00'

GARAGE

BLACKTOP

150'
2 STORY
FRAME
HOUSE

150'
ENTRANCE
TO BASEMENT

STORAGE
SHED

NUCLEAR CHAIRS
TO BE STORED HERE

WALLS 8-INCH CONCRETE BLOCK

FULL TIME
WORKING AREA

BLACKTOP

CONTROL NO. 7893

587° 27' ± 3" E

IRON PIN

IRON PIN

N 20 21' 12" E

192.66'

IRON PIN

N 57° 21' 55" W

73.1'

DODSON-LINDBLOM ASSOCIATES, INC.

CONSULTING ENGINEERS

5 EAST LONG STREET
COLUMBUS, OHIO 43215

AREA CODE 614 224-751

PRINCIPALS
ALLAN C. STRANGE
ROBERT D. MCCOY
V. V. RAJADHYAKSHA

April 15, 1980

U.S. N.R.C. (Region 4)
Office of Inspection and
Enforcement
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Attention: Sam Pettijohn:

RECEIVED BY LFMB	
Date	APR 25 1980
Log.	APRIL PG 19 III
By	Brown
Orig. To	
Action Compl.	4/29/80

030-17374
34-18933-01

In placing our order for a nuclear density gauge with Troxler, we learned that a license is required before the gauge will be shipped. Since we will need the gauge in early May of this year we request that you expedite the licensing process.

As you can see on our application, this is our first request for a license. However, Ronald Shields of our firm is trained and experienced in the proper handling, care and use of the instrument.

If the form has been improperly or incompletely filled out, please telephone our office to save mailing time. Your cooperation in this matter will be appreciated.

Sincerely,

OFFICIAL	3742
Check	
Application	110(34)
Type	
Date	APR 25 1980
Received By	Brown
VVR/mg	

DODSON-LINDBLOM ASSOCIATES, INC.

V.V. Rajadhyaksha
V.V. Rajadhyaksha

Enclosures

Control No. 03154

APR 17 1980

8066 060 466

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

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, N.W., Washington, D.C. or 1918 Eastern Avenue, Silver Spring, Maryland.

APPLICATION FOR	
<input checked="" type="checkbox"/>	A NEW LICENSE
<input type="checkbox"/>	B. AMENDMENT TO LICENSE NUMBER
<input type="checkbox"/>	C. RENEWAL OF LICENSE NUMBER

2. APPLICANT'S NAME (Institution, firm, person, etc.) Ronald E. Shields Dodson-Lindblom Associates, Inc. TELEPHONE NUMBER AREA CODE - NUMBER EXTENSION (614) 224-1251	3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Ronald E. Shields TELEPHONE NUMBER AREA CODE - NUMBER EXTENSION (614) 224-1251
4. APPLICANT'S MAILING ADDRESS (Include Zip Code) Dodson-Lindblom Associates, Inc. 5 East Long Street, 11th Floor, Columbus, Ohio 43215	5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (Include Zip Code) At address listed in item #4 and at temporary jobsites anywhere NRC maintains jurisdiction.

(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
(See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME	TITLE
a. Ronald Edward Shields	Staff Engineer
b.	
c.	

7. RADIATION PROTECTION OFFICER Ronald Edward Shields	Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 16.
--	---

B. LICENSED MATERIAL

L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER (If Source Source)	MAXIMUM NUMBER OF UNLICENSED AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	Cs 137	Sealed Source	Troxler Draving #102112	No Source to exceed 9 mCi
(2)	Am241:Be	Sealed Source	Troxler Draving #102451	No Source to exceed 40 mCi
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

(1)	For use in Troxler 3400 series Moisture-Density gauge to measure properties
(2)	of construction materials.
(3)	
(4)	80000604701

Control No. 03124

STORAGE OF SEALED SOURCES

1	CONTAINER OR CONTAINERS USED TO STORE EACH SEALED SOURCE AND ITS LOCATION	DATE OF PURCHASE	SOURCE NUMBER
1A	Moisture Density Gauge	Frontier Electronics	3400 series
1B			
1C			
1D			

10. RADIATION DETECTION INSTRUMENTS

1	TYPE OF INSTRUMENT	MANUFACTURER NAME	MODEL NUMBER	RANGE AVAILABLE	RADIATION DETECTED (Alpha, Beta, Gamma, Neutron)	EFFECTIVITY RANGE (Minimum Detectable Activity or Concentration)
11	None					
12						
13						
14						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<p>11a. CALIBRATED BY SERVICE COMPANY</p> <p>NAME, ADDRESS, AND FREQUENCY</p> <p>R/A</p>	<p>11b. CALIBRATED BY APPLICANT</p> <p>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</p>
--	---

12. PERSONNEL MONITORING DEVICES

TYPE (Attach label photograph as appropriate)	SUPPLIER (Attach photograph)	REMARKS/FREQUENCY
<p>12a. PERSONAL MONITOR</p> <p>12b. THE MONITOR LIVES BEHIND CLOTHING OR FLUOR</p> <p>12c. OTHER (Specify):</p>	<p>R. S. Landauer, Jr. Co.</p> <p>Glenwood Science Park</p> <p>Glenwood, Illinois 60425</p> <p>(312)753-7000</p>	<p>12d. MONTHLY</p> <p>12e. QUARTERLY</p> <p>12f. OTHER (Specify):</p>

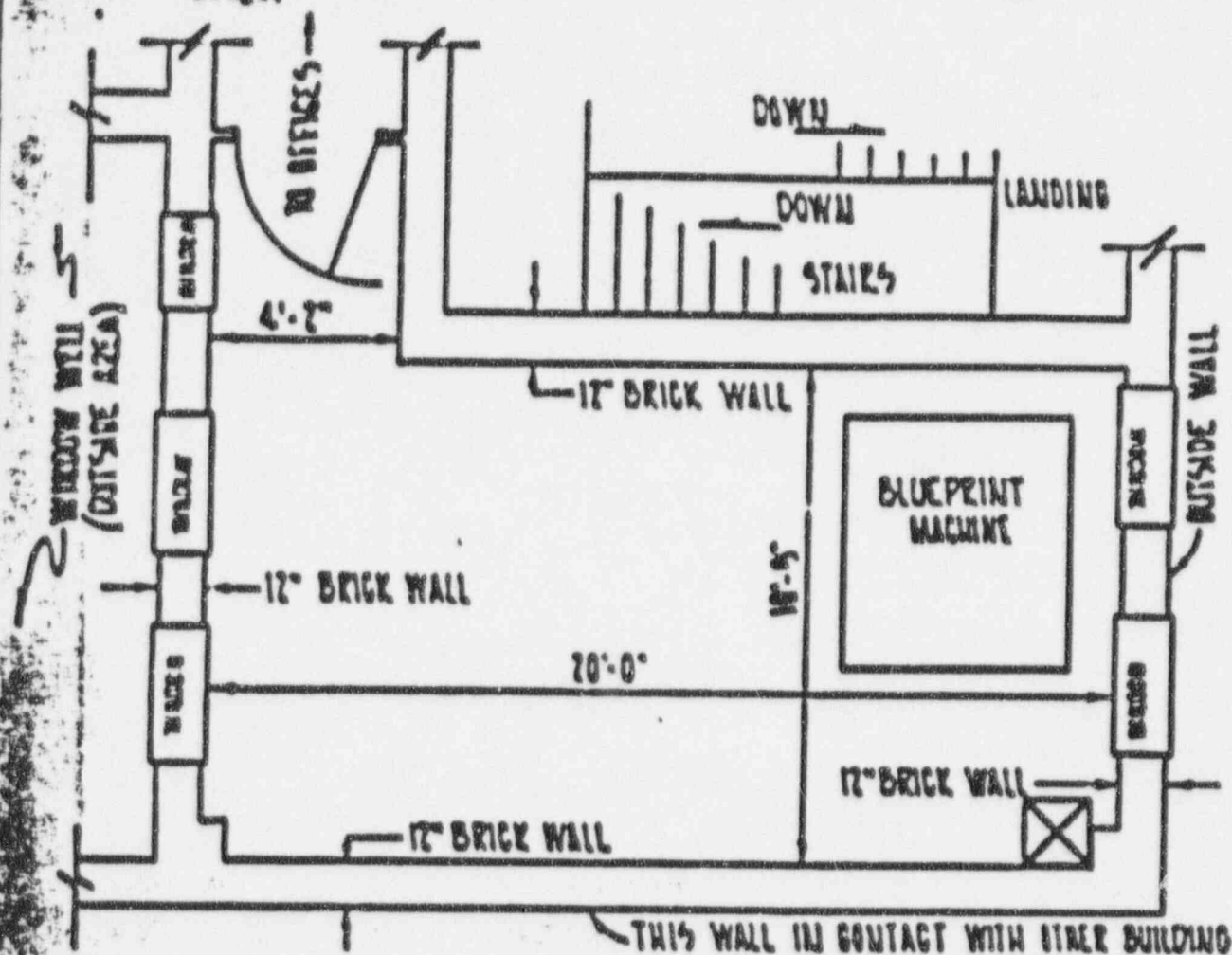
13. FACILITIES AND EQUIPMENT (Sketches were prepared and attached to this report and descriptions)

- 13a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS, SPECIAL EQUIPMENT, ETC.
- 13b. STORAGE FACILITIES, CONTAINERS, SPECIAL EQUIPMENT (Hood, glove, container), ETC. Attached sketch shows distance between gauge and nearest full-time working area.
- 13c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
- 13d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

14. WASTE DISPOSAL

- 14a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE USED. Sources will be returned to manufacturer.
- 14b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSAL OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITIES INVOLVED IN THE APPLICATIONS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER. SO STATE.

136: Sketch of Storage Area for Tronier 3400-series Nuclear Density Gauge.



Window is 20 inch wide opening, 40 inch high, sill is 36 inches above floor.

□ Density Gauge and Storage Table

Sign designating storage area will be placed on wall near storage location and will be visible at all times.

Room is used to run blueprint prints a maximum of four hours in any day by any individual. Use is generally two hours per day three days out of a week.

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.
See Attached. Troxler Model 38-80 Leaktest 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.
See Attached. Troxler Electronic Labs, Inc. two day training. February 1977.
 - 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.
See Attached.

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)

Application: \$110.00

b. CERTIFYING OFFICIAL (Signature)

Ronald E. Shields

c. NAME (Type or print)

Ronald E. Shields

(1) LICENSE FEE CATEGORY: Category 3.L

d. TITLE

Staff Engineer

(2) LICENSE FEE ENCLOSED: \$ 110.00

e. DATE

April 15, 1980

15. RADIATION PROTECTION OFFICER RESPONSIBILITIES ARE:

1. Coordinate the safe use of the gauges.
2. Assure compliance with the requirements of Title 10 CRF Parts 19, 20, or applicable state regulations, and all applicable US DOT regulations.
3. Assure byproduct materials possessed under the license are in conformity to materials listed on the license.
4. Assure that use of devices (particularly in the field) is only by persons named as users under the license or persons who have completed acceptable training.
5. Assure all users wear personnel monitoring (when required) while using gauges.
6. Assure gauges are properly secured against unauthorized removal at all times.
7. Serve as point of contact and give assistance in case of emergency to insure that all proper authorities are notified promptly in case of accidents.
8. Assure that terms and conditions of the license are met such as:
 - a. Periodic leak tests are performed. (Troxler Model 38-80 Leak Test Kit will be used.)
 - b. All required records are kept and reviewed periodically for compliance with regulations - these include source certificates, leak test report personnel exposure reports, and records of transfer of radioactive materials.

15. RADIATION PROTECTION PROGRAM

A. Handling Procedures

1. Do not operate, attempt to operate or transport the instrument unless you have been authorized to do so.
2. Keep the source position in the "SAFE" or stored position when not in use.
3. Wear a film badge or other dose measurement device ~~when using or transporting the instrument (if required)~~
4. ~~WHILE OPERATING THE INSTRUMENT, NEVER EXPOSE YOURSELF TO THE BARE SOURCE WITHOUT SUFFICIENT REASON FOR JUSTIFICATION OF THE ADDITIONAL DOSE.~~
radiation workers, never expose yourself to the bare source without sufficient reason for justification of the additional dose.
5. Keep all unauthorized persons out of the operating area. A suggested distance is 5 meters or 15 feet. The general public must not be unnecessarily exposed to radiation.
6. Maintain security of the instrument at all times. The source lock should be in place when not in use and the instrument should be kept in a locked vehicle when transported. When stored, the area should be locked. Not only is it an expensive piece of equipment but, if stolen, could be abandoned under conditions which could be hazardous.

15 A Continued.

7. Insure that the gauge has had leak tests performed at the intervals required by your Radioactive Materials License.
8. If you have any doubts about use of the instrument, ASK. Your Radiological Safety Officer either has the answer or can obtain one.

B. Security

Locks shall be maintained on the equipment, to prevent exposure of the sealed source when not under the direct supervision of approved personnel. In addition, storage containers shall be physically secured to prevent tampering or removal by unauthorized personnel.

C. Personnel Monitoring

No person shall use equipment unless he is in possession of the appropriate form of dosimetry (film badge).

D. Records and Reports

1. A biannual physical inventory to account for all sealed sources received and possessed under the license shall be performed. The inventory record shall be maintained for inspection.
2. All sealed sources shall be leak tested at the interval required by the license. When transferred, in the absence of a leak test certificate, the source shall not be put into use until tested.
3. Reports from the film badge service shall be maintained for inspection.
4. When an individual terminates employment, a record of his total received dose shall be made available to the employee on request.

E. Incidents

1. Immediate telephone notification will be made to the following in the event of loss of a sealed source, whether accidental or due to theft.

- A. Company Radiological Safety Officer
- B. U.S. NRC Regional Office, if applicable
- C. State Health Department
Radiological Protection Division, if applicable
- D. Local Authorities
Fire dept., sheriff, police, state highway patrol,
if necessary

E. Troxler Electronic Laboratories, if necessary

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

2. 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.

F. Emergency Procedures

1. In the event of physical damage to a gauge, a fifteen (15) feet radius exclusion area shall be maintained until the extent of source damage (if any) is determined. If a vehicle is involved, it must be stopped and remain stopped until the extent of contamination hazard (if any) 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 Electronic Laboratories, Inc. should be notified. The instrument may be removed from the site by using a shovel or other long handled instrument and placed in a suitable container such as a metal drum.
2. Provisions shall be made to have the site surveyed for possible contamination after the instrument is removed. Disposition by the factory, as covered in Item 14 may be arranged after a leak test has been performed to determine the integrity of the source prior to shipment to the factory.

G. Transport by Private Motor Vehicle

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

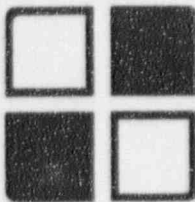
16. TRAINING

Troxler Electronics Labs, Inc.
Two-day training course
February, 1977

17. EXPERIENCE

Ronald E. Shields

Two years with consulting firm of Raike Associates, Ashland, Ohio; on various jobsites around Ohio; using 2400 series Troxler nuclear density gauge (radium source)



MASON - de VERTEUIL GEOTECHNICAL SERVICES

6035 Huntley Road
Columbus, Ohio 43229
(614) 888-0576

A division of
Dodson-Lindblom Associates, Inc.

Neil E. Mason, P.E., Manager
Paul D. de Verteuil, P.E., Assistant Manager

July 23, 1986

Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Re: Amendment
NRC License No. 34-1893301

Gentlemen:

This letter is to request certain amendments to the NRC License No. 34-1893301. First we wish to change the address of the Licensee to:

Mason - de Verteuil Geotechnical Services
a division of Dodson-Lindblom Associates, Inc.
6035 Huntley Road
Columbus, Ohio 43229

Mason - de Verteuil Geotechnical Services is a wholly owned division of Dodson-Lindblom Associates, Inc. and the 3400 series gauges are presently being stored at the facilities at 6035 Huntley Road, at the location designated in the present license. Mason - de Verteuil Geotechnical Services employees are the primary users of the gauges.

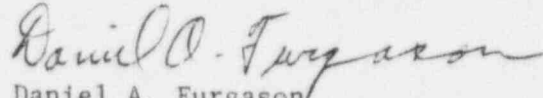
Secondly, we wish to change our Radiation Safety Officer from Paul D. de Verteuil, to Daniel A. Furgason. His experience and qualifications are as follows:

1. BSCE in Civil Engineering, Ohio State University 1983.
2. Operation of troxler moisture-density gauges since 1981.
3. Supervision and use of the troxler 3400 series moisture-density gauges since 1984. Presently, Construction Quality Control Supervisor.
4. Attended troxler training course in the use of Nuclear Testing Equipment in 1984.

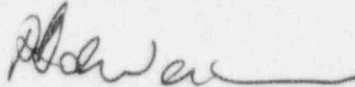
Thank you for your consideration of the above information. If you should have any questions please call.

Respectfully submitted,

MASON -- de VERTEUIL GEOTECHNICAL SERVICES



Daniel A. Furgason
Civil Engineer, BSCE



Paul D. de Verteuil, P.E.
Civil Engineer, MSCE

Attach: Copy of current license
Copies: NRC - 1
File - 1

MATERIALS LICENSE

Amendment No. 01

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		In accordance with letter dated May 8, 1985	
1. Dodson-Lindblom Associates, Inc.		3. License number 34-18933-01 is amended in its entirety to read as follows:	
2. 5 East Long Street Columbus, OH 43215		4. Expiration date	June 30, 1990
		5. Docket or Reference No.	030-17374
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 source (Troxler Dwg. No. 102112)	A. No single source to exceed 10 millicuries	
B. Americium-241	B. Sealed source (Troxler Dwg. No. 102451)	B. No single source to exceed 50 millicuries	
9. Authorized Use			
A. and B. To be used in Troxler 3400 Series moisture/density gauges to measure moisture/density of construction materials.			

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at Mason-deVerteuil Geotechnical Services, 6035 Huntley Road, Columbus, Ohio 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, individuals who have satisfactorily completed the device manufacturer's training program for gauge users and have been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

34-18933-01

Docket or Reference number

030-17374

Amendment No. 01

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 for analysis by Troxler 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

34-18933-01

Docket or Reference number

030-17374

Amendment No. 01

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 April 15, 1980 and letter dated May 8, 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.



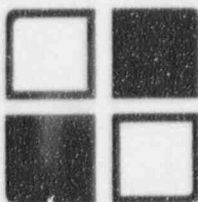
For the U.S. Nuclear Regulatory Commission

JUN 7 1985

Date _____

By

Edmund B. Metten
Materials Licensing Section, Region III



MASON - de VERTEUIL GEOTECHNICAL SERVICES

A division of
Dodson-Lindblom Associates, Inc.

6035 Huntley Road
Columbus, Ohio 43229
Phone (614) 888-0576
FAX (614) 888-6415

A. James Siebert III, P.E., Manager
Paul D. de Verteuil, P.E., Assistant Manager

July 19, 1989

Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL. 60137

Re: Amendment
NRC License No. 34-1893301

Gentlemen:

This letter is to request an amendment to our material license, U. S. Nuclear Regulatory Commission No. 34-1893301.

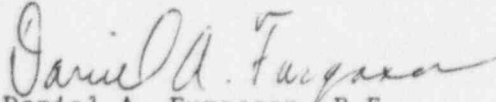
We wish to add the following Items (C & D) to No. 6, 7, 8, and 9 of our materials license.

- | | | |
|--|--|--|
| 6. By product, 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 source (Troxler Dwg. No. 102112) | A. No single source to exceed 10 millicuries |
| B. Americium-241/Be | B. Sealed source (Troxler Dwg. No. 102451) | B. No single source to exceed 50 millicuries |
| C. Cesium-137 | C. Sealed source (CPN Dwg. No. CPN-131) | C. No single source to exceed 10 millicuries |
| D. Americium-241/Be | D. Sealed source (CPN Dwg. No. CPN-131) | D. No single source to exceed 50 millicuries |
| 9. Authorized Use | | |
| A. and B. To be used in Troxler 3400 Series moisture/density gauges to measure moisture/density of construction materials. | | |
| C. and D. To be used in CPN Corporation MC series moisture/density gauges to measure moisture/density of construction materials. | | |

Thank you for your consideration of this amendment. We are currently in need of another moisture density gauge and therefore hope to receive a copy of the new amendment at your earliest convenience.

Sincerely,

MASON - de VERTEUIL GEOTECHNICAL SERVICES

A handwritten signature in cursive script, appearing to read "Daniel A. Furgason".

Daniel A. Furgason, P.E.
Radiation Safety Officer

Attach: Materials License
Copies: NRC - 1
File - 1



MASON - de VERTEUIL GEOTECHNICAL SERVICES

A DLZ Company

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS TESTING • DRILLING

January 27, 1994

U.S. Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

Re: Amendment
NRC License No. 34-18933.01

Gentlemen:

We request an amendment of our current NRC License. A copy of our current license is attached. Requested changes are as follows:

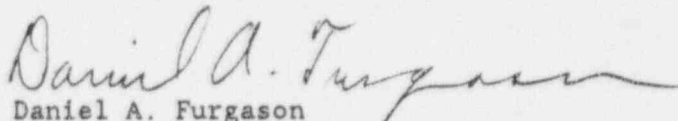
1. Item No. 8A be changed to read "Thirty sources not to exceed 10 millicuries each".
2. Item No. 8B be changed to read "Thirty sources not to exceed 50 millicuries each".
3. Item No. 12 be changed to read "The Radiation Protection Officer for the activities authorized by this license is Barry K.H. Wong.

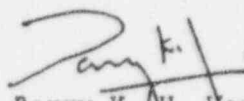
In addition, we wish to move our storage location to another location at the same address listed under Item No. 10 of the current license. This location is shown on the attached sketch and is considered to be more secure, provide better isolation from employee work areas and will also provide us more storage space. The area consists of a storage room that will be locked at all times, contained within a single story facility that is locked during non-working hours.

We appreciate your consideration of this amendment.

Sincerely,

MASON - de VERTEUIL GEOTECHNICAL SERVICES


Daniel A. Furgason
Former Radiation Protection Officer


Barry K.H. Wong
Radiation Protection officer

DAF/BW/jal



MATERIALS LICENSE

Amendment No. 04

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, 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.

Licensee		In accordance with letter dated March 9, 1990	
1. Mason-de Verteuil Geotechnical Services Division of Dodson-Lindblom Assoc., Inc.		3. License number 34-18933-01 is renewed in its entirety as follows:	
2. 6035 Huntley Road Columbus, OH 43229		4. Expiration date	June 30, 1995
		5. Docket or Reference No	030-17374
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 source (Troxler Dwg. No. A-102112)	A. Ten sources not to exceed 10 millicuries each	
B. Americium-241	B. Sealed source (Troxler Dwg. No. A-102451)	B. Ten sources not to exceed 50 millicuries each	
C. Cesium-137	C. Sealed source (Campbell Pacific Nuclear Model No. CPN-131)	C. Ten sources not to exceed 10 millicuries each	
D. Americium-241	D. Sealed source (Campbell Pacific Nuclear Model No. CPN-131)	D. Ten sources not to exceed 50 millicuries each	

9. Authorized Use

- A. and B. To be used in Troxler Model 3400 Series surface moisture/density gauges.
- C. and D. To be used in Campbell Pacific Nuclear Model MC Series surface moisture/density gauges.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

34-18933-01

Docket or Reference number

030-17374

CONDITIONS

10. Licensed material may be stored at 6035 Huntley Road, Columbus, Ohio and may be used 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 be used by, or under the supervision and in the physical presence of, individuals who have completed the gauge manufacturer's training course and have been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.
12. The Radiation Protection Officer for the activities authorized by this license is Daniel A. Furgason.
13. A. (1) The source(s) specified in Item(s) 7.A. through 7.D. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
C. 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
D. The licensee is authorized to collect leak test samples for analysis by Troxler or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

34-18933-01

Docket or Reference number

030-17374

14. Sealed sources containing licensed material shall not be opened or removed from the gauges by the licensee.
15. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. 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.
18. The licensee shall maintain records of information important to safe and effective decommissioning at the location listed in Item 2. of this license per the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
19. 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.

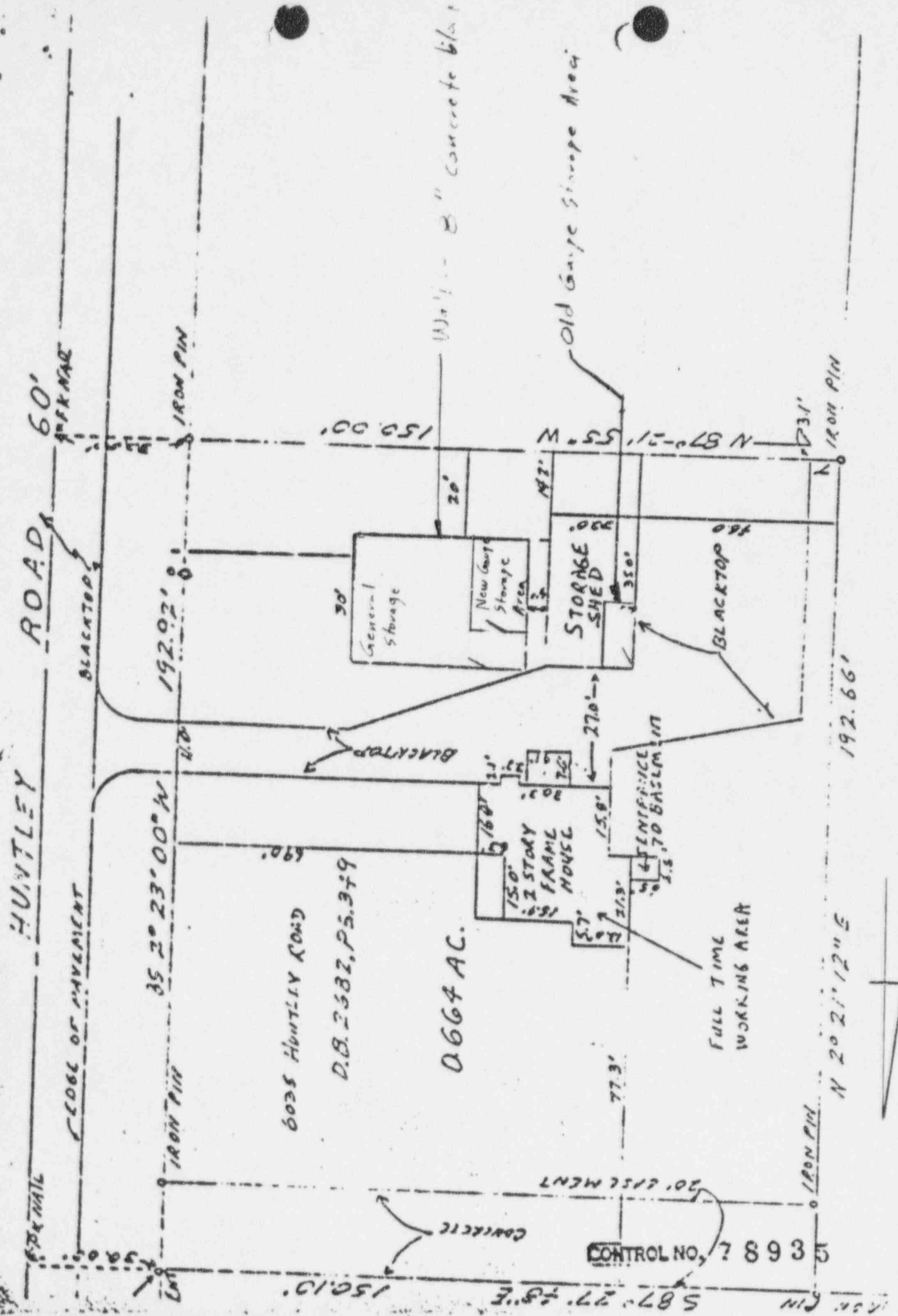
For the U.S. Nuclear Regulatory Commission

Date:

May 14, 1990

By

Patricia M. Vecherlon
Materials Licensing Section, Region III



TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

BARRY K.H. WONG

of

MASON-DE VERTEUIL
GEOTECHNICAL SERVICES

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

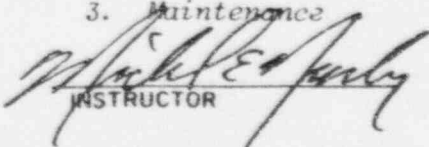
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

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

Gauge Operation

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


INSTRUCTOR

09-ii-87
DATE

W. F. Troxler
PRESIDENT

Nº 19591

SEP 26 1996

Barry Wong, MSCE, P.E.
Radiation Safety Officer
Dodson-Stilson, Inc.
6121 Huntley Road
Columbus, OH 43229-1003

Dear Mr. Wong:

Enclosed is Amendment No. 06 renewing your NRC Material License No. 34-18933-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
 - a. When Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
 - b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
 - a. When you decide to terminate all activities involving materials authorized under the license; or
 - b. If you decide not to complete the facility, acquire equipment, or possess and use authorized material.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;

398603

- b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
 - d. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,
Original Signed By
Patricia M. Vacherlon
Nuclear Materials Licensing Section

License No.: 34-18933-01
Docket No.: 030-17374

Enclosure: Amendment No. 06

DOCUMENT NAME: M:\03017374.CL6

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DRSS/RIII								
NAME	PVacherlon:jaw								
DATE	09/25/96 <i>[Signature]</i>								

OFFICIAL RECORD COPY

Dodson Stilson

Dodson-Stilson, Inc.

A DLZ Company

ENGINEERS • ARCHITECTS • SCIENTISTS

September 18, 1996

United States Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

Attention: Ms. Patricia M. Vachlerlon
License Reviewer

Re: Request for Renewal Information
License Number 34-18933-01
Control Number 398603

Dear Ms. Vachlerlon:

This letter is in response to your request for information regarding the renewal of License Number 34-18933-01. Your records indicate that this License Number is issued to Mason-de Verteuil Geotechnical Services, a division of Dodson-Lindblom Associates, Inc. Due to an internal company reorganization, we have changed our name to **Dodson-Stilson, Inc.** However, our Management structure remains unchanged and our procedures and policies regarding the use, transportation, storage, etc. of our nuclear gauges remain intact.

The Management of Dodson-Stilson, Inc. is committed to providing a safe working environment for our employees as well as anyone involved in or exposed to our work. The Radiation Safety Officer (RSO) has complete and independent authority to stop any unsafe operations or procedures and will be given sufficient time to fulfill the duties and responsibilities that go along with being the RSO.

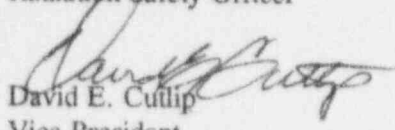
In addition, the Management at Dodson-Stilson, Inc. provides the necessary resources to comply with all relevant U.S. Nuclear Regulatory Commission (NRC) Regulations.

If you have any further questions, please do not hesitate to call.

Sincerely,

DODSON-STILSON, INC.


Barry Wong, MSCE, P.E.
Radiation Safety Officer


David E. Cullip
Vice President

BW/DEC/cb

Enclosures
I:\SECT\9621\9110\VACHLER.BW

RECEIVED
SEP 19 1996
REGION III

(10-94)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0190

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
801 WARRENVILLE RD.
Lisle, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-6064

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION OR IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item):

☐
☐
☒

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER

C. RENEWAL OF LICENSE NUMBER 34-18933-01

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

Dodson-Stilson, Inc.
6121 Huntley Road
Columbus, Ohio 43229

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

Dodson-Stilson, Inc.
6035 Huntley Road
Columbus, Ohio 43229

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Barry K.H. Wong

TELEPHONE NUMBER

(614)888-0576

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 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 3P AMOUNT ENCLOSED \$
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, 36, 39 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 (42 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.	

CERTIFYING OFFICER - TYPE/PRINTED NAME AND TITLE

Barry K.H. Wong, Radiation Safety Officer

SIGNATURE

DATE

9/18/96

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

RECEIVED

SEP 19 1996

REGION III

1. **Purpose for Which Material will be used**

The gauging device will be used to measure moisture and density of Construction Materials. The penetration depth ranges from 0 inches (backscatter) to 12 inches (direct transmission).

2. **Radiation Safety Officer (RSO)**

- a. A Commitment from management that the RSO is authorized to stop unsafe operations.

The management of Dodson-Stilson, Inc. is committed to provide a safe working environment. The RSO has complete independent authority to stop any unsafe operations and will be given sufficient time to fulfill the radiation safety duties and responsibilities. In addition, the management will provide necessary resources to comply with U.S. Nuclear Regulatory Commission.

- b. Methods and checks to assure that you have all up-to-date regulations, etc.

Dodson-Stilson, Inc. currently has the latest copy of the NRC regulations applicable to portable gauging devices (10 CFR Part 0 to 199 and 49 CFR 100 to 199). In addition, Dodson-Stilson, Inc. will commit to send RSO to seminars periodically to keep up-to-date regulations.

- c. Compare the RSO duties submitted to those outlined in the guide.

The RSO's duties and responsibilities will be those listed in Appendix C of Draft Regulatory Guide DG-0008.

- d. Submit an organizational chart as described in the guide.

Please refer to attach organizational chart.

3. **Training provided to other users**

Prior to becoming an authorized user, an individual must have completed the device manufacturer's radiation safety training course. Also, each individual must review the Dodson-Stilson, Inc. radioactive material licence and application. In addition, each individual must review and receive a copy of radiation safety policy and procedure manual.

The records of this training, along with the Radiation Safety Officer's approval of each individual user shall be maintained three (3) years after the individual terminates employment. Also, the RSO will maintain a list of the individuals who have been designated as authorized users.

DODSON-STILSON, INC.

A. James Siebert, III,
President

Kevin M. Bainter, Sr. Vice President
A/E Design Services

David E. Cutlip, Vice President
Technical Support Services

Civil/Transp.
Division
Frank O'Hare

Civil/High
Larry Rice

Structural
James Crenhall

Water Resources
Mike Griffith

Public Works
Division
Jerry Dailey

Public Works
Su Wilms

Water Dist.
Storage & Sewer
Ed Hendricks

Construction
Admin./Insp.
William Norris

Facilities
Division
Mike Clippinger

Architectural
Mike Ansbrock

Mechanical
Vacant

Electrical
John Munster

Southwest Ohio
Division
Ralph Reiginsperger

Contechnical
Division
Paul deVoreuil

Engineering
Pete Nix

Lab/Field QC
Barry Wong
Radiation Safety Officer

Surveying
Division
Chuck Murphy

Survey
Richard Conrad

Permits - R/W
Bud Naylor

Conduit Design
Cal Curwell

Environmental
Division
Bob Hodges

Drilling Division
Paul de Voreuil

DI, Maint. &
Construction
Division
Chuck Harris

4. **Radiation Safety Program**

Each operator of a nuclear-densometer gauge will be required to wear personnel monitoring equipment (film badge or TLD badge) to ascertain each individual whole body radiation exposure while working with radioactive material. Badges are sent to the supplier along with the control badge monthly for processing. The exposure reports will be posted each month for gauge operator to review.

5. **Radiation Detection Program**

Dodson-Stilson, Inc. currently has a radiation survey meter with audible rate indicator from Troxler Electronic Inc.. The survey meter is capable of measuring between 0.1 to 1 millirem per hour as required by NRC.

All gauge operators have 24 hour access to RSO if it becomes necessary. The RSO or RSO designee will respond in a timely manner to evaluate source integrity following an incident at any jobsite.

6. **Inventories**

Dodson-Stilson, Inc. will conduct inventories, at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license. The records of the inventories will be maintained for at least 3 years from the date of the inventory and the inventory records will include, but not be limited to the following.

- a. Manufacturer's Name, Model Number and Serial Number.
- b. Date
- c. Source type.
- d. Location of each device.
- e. Leak test performed.
- f. Signature of the individual completing the inventory.

7. **Operating/Emergency Procedures.**

- a. Before removing the gauge from its place of storage, check to make sure that the gauge source rod is in the shielded, locked position, then lock the transport case if possible.
- b. Sign the gauge out in a log book, stating the dates of use, names of the authorized users who will be responsible for the gauge, and the temporary jobsites where the gauge will be used.
- c. Never leave the gauge unattended while in your custody.

- d. Follow all applicable Department of Transportation (DOT) requirements when transporting the gauge.
 - i. All gauges must be transported in approved transporting case.
 - ii. Gauges should be placed and secured in the furthest point in the vehicle from the driver. Secured means locked in trunk or tie down in bed of pick up.
- e. Do not touch the source rod with your fingers, hands, or any part of your body, and always make sure the source rod is in the shielded position after each measurement is made.
- f. Each operator is required to wear a radiation film badge when operating, transporting or when in the immediate vicinity of a moisture-density gauge.
- g. Never wear another person's TLD or film badge.
- h. Never store your TLD or film badge near the gauge.
- i. Always keep unauthorized persons away from the area where the gauge is to be used.
- j. Always maintain constant surveillance and immediate control of the gauge when it is not in storage.
- k. Never look under the gauge when the source rod is being lowered into the ground.
- l. After each measurement, always return the source to the shielded position and lock it there.
- m. If gauge is not within your sight, it must be locked inside your vehicle or the storage area.
- n. Return the gauge to its proper storage location at the end of the work shift.
- o. When the gauge is returned to storage, so indicate in the source log.
- p. Keep doors to storage shed locked when the room is not occupied.
- q. If there are any questions on radiation safety practices contact the Radiation Safety Officer.

8. **Annual Audit**

The annual audit is to ensure that Dodson-Stilson, Inc. maintains compliance with the NRC regulations, the NRC radioactive material license requirements and the DOT requirements.

The Radiation Safety Officer shall perform a review of the Radiation Safety Program. The review shall include all requirements noted in the Policy and Procedure Manual and any additional requirements that may be incorporated into our license. The RSO shall document the results of all records reviewed and corrective actions taken to avoid recurrence. The records of audits shall be maintained for at least 3 years after the record is made.

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TROXLER NUCLEAR GAUGE EMERGENCY PROCEDURES

All TROXLER nuclear gauges contain special form, sealed radioactive sources which are doubly encapsulated in stainless steel. The radioactive material employed is most commonly Cesium-137 and/or Americium-241:Beryllium. These gauges are tested by TROXLER to evaluate the integrity of the source containment under adverse conditions. This testing has indicated that **when transported in appropriate transport cases, severe impact should have no effect on the source containment** or exposure levels associated with the gauges. The transport cases also provide optimum protection during shipment and are labeled by TROXLER to comply with U.S. Department of Transportation regulations.

In the event that a TROXLER gauge is involved in an accident, fire or explosion during transport, the following steps must be taken:

1. An area of approximately 15 feet in radius surrounding the gauge and parts, if any, must be secured to prevent entry by unauthorized persons. This area should be maintained until the condition of the gauge is evaluated.
2. Visually inspect the gauge to determine the extent of damage to the source housing or shielding. If applicable, the source rod should be returned to the shielded position.
3. The gauge and any damaged parts must be evaluated for the presence of contamination. This may be accomplished by performing a meter survey or leak test of the equipment involved.
4. If contamination is detected on the equipment, any involved vehicle must be evaluated also.
5. The radioactive material employed in TROXLER gauges does not pose an immediate health hazard. However, prolonged direct contact with the sources should be minimized to reduce any potential radiation exposure.
6. There is no risk of explosion or fire associated with TROXLER gauges. The source capsule should withstand extreme temperatures approaching the melting point of the stainless steel capsule (1370 degrees centigrade). Based on practical experience over several years, gauges involved in fires have not lost their shielding integrity or source containment.

TROXLER provides a 24 hour emergency response telephone number, 919/839-2676, to offer assistance during transportation accidents. Information specific to all nuclear gauges manufactured by TROXLER may be obtained by contacting this number.

EMERGENCY PROCEDURES

A. In the event of physical damage to gauge, the following steps must be taken:

1. An area of 15 feet in radius from the gauge must be sealed or cordoned off to prevent entry by unauthorized persons.
2. If a vehicle is involved, it must not be moved until the extent of contamination (if any) of the vehicle is determined.
3. Make a visual inspection of the gauge to determine whether any damage to the source housing or shield has been sustained.
4. As soon as possible, after the situation has been stabilized and is under control, notify.

<u>Name</u>	<u>Work Phone Number</u>	<u>Home Phone Number</u>
Barry Wong	(614)888-0576	(614)798-8929
Tim Hampshire	(614)888-0576	(614)794-0497

5. Describe the present existing conditions and follow the instruction of Radiation Safety Officer.

B. In the event that a gauge is lost or stolen, the following steps must be taken.

1. **NOTIFY YOUR RADIATION SAFETY OFFICER** as soon as possible; he will immediately notify the appropriate regulatory agency and the gauge manufacturer.
2. The regulatory agency will direct your company as to additional agencies (local law enforcement and press) that must be notified.

JUL 11 1996

Barry Wong, MSCE, P.E.
Radiation Safety Officer
Mason - de Verteuil Geotechnical
Services
6121 Huntley Road
Columbus, OH 43229-1003

Dear Mr. Wong:

We have reviewed your May 16, 1995, request for renewal of License Number 34-18933-01, and find that in order to complete our review, we will need additional information as follows:

1. PURPOSE FOR WHICH MATERIAL WILL BE USED

OK State whether any of the gauges specified in your application can penetrate the ground to depths greater than three feet. If so, you must provide additional operating and handling procedures. Refer to Item 6 of the enclosed guide.

2. RADIATION SAFETY OFFICER

Refer to the Item 7 of the enclosed guide and provide us with:

- OK a. A commitment from management that the RSO is authorized to stop unsafe operations.
- OK b. Methods and checks to assure that you have all up-to-date regulations, etc.
- OK c. Compare the RSO duties submitted to those outlined in the guide. Please add any additional information not contained in your original submittal.
- OK d. Submit an organizational chart as described in the guide.

3. TRAINING PROVIDED TO OTHER USERS

did not commit to annual training
Provide a commitment that you will conduct annual refresher training for you employees and the training will cover the topics outlined in the enclosed guide.

4. RADIATION SAFETY PROGRAM

Provide a commitment that any personnel monitoring provider that you will use will be NVLAP certified. Refer to item 10.1 of the enclosed guide.

5. RADIATION DETECTION INSTRUMENTS

OK Provide the information regarding an operating survey instrument at each job site. Refer to Item 10.2 in the enclosed guide for the type of information you should submit to us.

6. INVENTORIES

OK Provide a commitment that you will conduct inventory at no less than 6 month intervals to account for all gauges in your possession. Refer to Item 10.4 of the enclosed guide.

7. OPERATING/EMERGENCY PROCEDURES

NA See item 1 If you are using gauges whose probe can penetrate the ground at depths greater than 3 feet, you need to provide us with a copy of your operating and emergency procedures to handle this type of gauge. Submit a commitment that you will have a copy of your emergency procedures at each job site. Refer to Item 10.7 of the enclosed guide.

8. ANNUAL AUDIT

OK Provide us with a commitment that you will conduct annual audits of your program. Refer to Item 10.8 of the enclosed guide.

We will continue our review of your application upon receipt of this information. Please reply in duplicate, within 30 days, and refer to Control Number 398603.

If you have any questions or require clarification on any of the information stated above, you may contact us at (708) 829-9887.

Sincerely,
Original Signed By
Patricia M. Vacherlon
License Reviewer

License No. 34-18933-01
Docket No. 030-17374

Enclosure: Portable Gauge Guide DG-0008

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DATE	07/11/96 Pmm								

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May 24, 1995

Mason-De Verteuil Geotechnical Service
Division of Dodson-Lindblom Assoc., Inc.
ATTN: Barry K. H. Wong
Radiation Safety Officer
6121 Huntley Road
Columbus, OH 43229

SUBJECT: LICENSE RENEWAL APPLICATION

Dear Mr. Wong:

This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified and your license number.

Sincerely,

Original Signed By
Marianne Meenan, Chief
Nuclear Materials Support Section

License No. 34-18933-01
Control No. 398603

DOCUMENT NAME: M:\03017374.DT5

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