

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, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee		In accordance with the application dated February 3, 1997,	
1. Golder Construction Services, Inc.		3. License Number 29-28576-01 is amended in its entirety to read as follows:	
2. 305 Fellowship Road, Suite 200 Mount Laurel, New Jersey 08054		4. Expiration Date May 31, 2001	
		5. Docket or Reference No. 030-31907	
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Cesium 137	A. Sealed sources	A. 200 millicuries	
B. Americium 241	B. Sealed neutron sources	B. 1000 millicuries	
9. Authorized use			
A. and B. For possession and use in Troxler Electronic Laboratories, Inc., Campbell Pacific Nuclear Corp., Humboldt Scientific, Inc., Seaman Nuclear Corporation, or Soiltest, Incorporated devices which have been evaluated and approved for licensing purposes under a license issued by the U.S. Nuclear Regulatory Commission or any Agreement State.			

CONDITIONS

10. Licensed material may be stored at the licensee's facilities located at 102 Gaither Drive, Suite 5, Mt. Laurel, New Jersey, 16821 Wood Road, Lansing, Michigan, 8715 Schroeder Road, Richmond, Virginia, and may be used only at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in letters dated May 1, 1991 and June 4, 1991 and have been designated in writing by the Radiation Safety Officer.
- B. The Radiation Safety Officer for this license is Robert M. Wilkinson.
12. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.



**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

29-28576-01

Docket or Reference Number

030-31907

Amendment No. 04

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

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

29-28576-01

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15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
16. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
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 is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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 September 11, 1990
 - B. Letter dated April 18, 1991
 - C. Letter dated May 1, 1991
 - D. Letter dated June 4, 1991
 - E. Letter dated November 13, 1992
 - F. Letter dated February 25, 1993
 - G. Letter dated September 20, 1994
 - H. Application dated February 3, 1997
 - I. Letter dated February 24, 1997

APR - 5 1997

Date _____

For the U.S. Nuclear Regulatory Commission

ORIGINAL SIGNED BY:

By **JUDITH A. JOUSTRA**

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

APR - 5 1997

Mr. James E. Whitty, Associate
Golder Construction Services, Inc.
305 Fellowship Road
Suite 200
Mt. Laurel, New Jersey 08054

Dear Mr. Whitty:

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

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

Thank you for your cooperation.

Sincerely,

**ORIGINAL SIGNED BY:
JUDITH A. JOUSTRA**

Judith A. Joustra
Division of Nuclear Materials Safety

License No. 29-28576-01
Docket No. 030-31907
Control No. 124272

Enclosure:
Amendment No. 04


DOCUMENT NAME: R:\WPS\MLTR\L2928576.01

OFFICIAL RECORD COPY ML 10

J. E. Whitty
Golder Construction Services, Inc.

-2-

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

OFFICE	DNMS/RI	<input checked="checked" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	JJoustra 						
DATE	02/20/97	02/ /97	02/ /97	02/ /97	02/ /97	02/ /97	02/ /97

OFFICIAL RECORD COPY

Golder Associates Inc.

305 Fellowship Road, Suite 200
Mt. Laurel, NJ USA 08054
Tel: (609) 273-1110
Fax: (609) 273-0778



February 24, 1997

MS 16
P-8

Ms. Judy Joustra
United States Nuclear Regulatory Commission
Region 1
476 Allendale Road
King of Prussia, PA 19406-1415

MAIL CONTROL NUMBER 124272

RE: ATTACHMENT MODIFICATION TO LICENSE AMENDMENT
REQUEST (LICENSE NUMBER 29-28576-01)

Dear Ms. Joustra:

In accordance with a telephone conversation, on February 24, 1997, please find enclosed Attachment Modification to License Amendment (License Number 29-28576-01). The modifications are: Item 8.3 (Page 2 of 4) change: "Certification of this training will be retained by the employer for a period of not less than two years." to "Certification of this training will be retained by the employer for a period of not less than three years."; and Item 9, Paragraph 3 (Page 3 of 4) "Temporary Storage Areas will be kept locked when the nuclear gauges are stored within and an authorized user is not present." to "Temporary Storage Areas will be kept locked when the nuclear gauges are stored within and an authorized user (an authorized user is defined as: a Golder Construction Services, Inc. and Golder Associates Inc. employee) is not present."

If you have any questions, please contact us at (609) 722-9060.

Very truly yours,

GOLDER ASSOCIATES INC.

Robert M. Wilkinson
Laboratory Manager and RSO

Enclosures

124272

FEB 27 1997

OFFICIAL RECORD COPY

ML 10

AMMENDMENT TO LICENSE NUMBER 29-28576-01

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

Golder Associates Inc.
102 Gaither Drive
Suite 5
Mt. Laurel, New Jersey 08054
(Storage Only)

Golder Construction Services, Inc.
16821 Wood Road
Lansing, Michigan 48906
(Storage Only)

Golder Construction Services, Inc.
8715 Schroeder Road
Richmond, Virginia 23229
(Storage Only)

Temporary sites in states subject to NRC's regulation & authority
(Use & Storage)

Item 5 RADIOACTIVE MATERIAL

5.1. Radioisotopes used:

Cesium 137
Americium 241: Beryllium

5.2. Sealed sources used: Manufactured by: Amersham

Cs: Model A-102112
Am: A-102451

5.3. Radioactive material

Cs-137 (8.0 mCi): Not to exceed 10 mCi per source and 200 mCi total
Am-241:Be (40.0 mCi): Not to exceed 50 mCi per source and 1000 mCi total.

5.4. Gauging devices used:

Troxler 3400 series units
3401-B
3411-B
3440
Campbell Pacific Nuclear unit
CPN 131

AMMENDMENT TO LICENSE NUMBER 29-28576-01

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

The radioactive materials are contained within moisture-density gauges. The purposes of the gauges is to measure moisture and density of construction materials.

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

The individual responsible for the Radiation Safety Program is Robert M. Wilkinson, Laboratory Manager. His duties include acting as the Radiation Safety Officer. Mr. Wilkinson was a Certified Radiation Worker and a Qualified Nuclear Reactor Operator and Nuclear Reactor Electronics Technician on an S5W Reactor (1987 - United States Naval Nuclear Propulsion Prototype Facility, Balston Spa, New York) and a Qualified Nuclear Reactor Operator on the USS Mississippi - CGN-40 (1988 - United States Navy, Norfolk Naval Base, Norfolk, Virginia) and has successfully completed a training course in the Use of Nuclear Testing Equipment (see Attachment 1). This course was conducted by Geophysical Training Consultants on December 5, 1990 at the Golder Associates Inc. office in Mount Laurel, New Jersey. Mr. Michael Nunley conducted the course.

Item 8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

8.1. All persons employed to use nuclear gauge equipment must be trained in the use of the equipment prior to using it.

8.2. This training will be conducted by the manufacturer or a consultant authorized to conduct instruction in the use of the manufacturer's equipment.

8.3. Certification of this training will be retained by the employer for a period of not less than three years. The trainee will retain a copy of his/her certification for use in the field.

Item 9 FACILITIES AND EQUIPMENT

Nuclear gauge equipment is stored within the Mt. Laurel, New Jersey, Richmond, Virginia and Lansing, Michigan Laboratory facilities, in a locked room accessible only to authorized personnel and is kept locked when authorized, trained personnel are not in attendance. Equipment is checked out and in by authorized personnel and is issued only to persons with requisite training. Access doors to the storage area display radiation signs.

Each gauge is stored within a locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The container is kept locked when in transit and when not under direct surveillance of an authorized user.

AMMENDMENT TO LICENSE NUMBER 29-28576-01

Temporary Storage Areas will be kept locked when the nuclear gauges are stored within and an authorized user (an authorized user is defined as: a Golder Construction Services, Inc. and Golder Associates Inc. employee) is not present. Proper employee and governmental agency notifications shall be maintained and appropriate signs posted.

Item 10 **RADIATION SAFETY PROGRAM**

10.1. All personnel using nuclear gauge equipment are issued personnel thermoluminescent dosimetry (TLD). The badges along with appropriate control badges are issued and analyzed on a quarterly basis (January, April, July, October). Analysis of the badges is conducted by Troxler Radiation Monitoring Services, P. O. Box 12057, Research Triangle Park, North Carolina 27709, (919) 549-8661.

10.2. The Mount Laurel facility does not own a radiation survey instrument. These instruments are readily available to authorized personnel through Golder Associates Inc. offices in Atlanta, Georgia and Redmond, Washington.

10.3. Quantitative leak testing is conducted at six month intervals by an authorized person. A leak test kit supplied by Troxler Electronics Laboratories Inc., P. O. Box 12057, Research Triangle Park, North Carolina, 27709, (919) 549-8661 is used. The model number is 3880. The Troxler Electronic License number is North Carolina License #032-0182-1.

10.4. Nuclear gauge maintenance is performed by Troxler Electronic Laboratories Inc.

10.5. Packaging and transportation of nuclear gauges will be conducted in accordance with Subpart E of 49 CFR Part 172 and Subpart I of 49 CFR Part 173 of the Department of Transportation regulations.

10.6. Miscellaneous:

10.6.1. Personal monitoring

All personnel using a nuclear gauge are required to wear personnel dosimetry in the form of a TLD badge whenever working with the device.

10.6.2. Storage facility layouts (see Attachments 2, 3 and 4)

10.6.3. Storage

The gauges shall be stored in their containers and the containers kept in a locked storage area at all times when not in use. Access to the storage area shall be through authorized personnel only.

10.6.4. Transportation

The gauges shall not be transported in passenger airlines.

AMMENDMENT TO LICENSE NUMBER 29-28576-01

The gauges may be transported in the yellow containers, by motor vehicle under the "YELLOW II" label without placarding the vehicle as required by 49 CFR 177.823.

When transported, the locks shall be in place and the containers placed in a portion of the vehicle which can be locked.

The container has a Transport Index of 0.1 or greater and shall not be less than 30 centimeters from passengers when in vehicle transport as per 49 CFR 174.586.

The gauge shall not be stored for more than 8 hours at less than 1 meter from undeveloped film.

10.6.5. Leak Testing

Leak testing shall be performed by the RSO. If the RSO cannot perform the leak test, a designated trained person may conduct the leak test. All testing shall be in accordance with the instructions contained within the Troxler Electronic Laboratories Model 3880 Leak Test Kit:

"The regulations require that the gauge be leak tested at intervals not to exceed six months to ensure that the radioactive materials is securely contained in the gauges. The leak test shall be performed using the Troxler Model 3880 Leak Test Kit and accompanying instructions. To perform the test on the Model 3400 gauge, first remove the scaler modular from the front of the gauge. Looking down into the cavity of the scaler, you will see a yellow radiation label approximately in the middle of the gauge and to the top of the circuit board. Wipe the yellow label. Second, turn the gauge on one side. On the bottom of the gauge you will see the opening through which the source rod indexes. Wipe around and into this opening. Please note that source rod remains in the shielded or "safe" position during this procedure."

10.6.6. Individuals to notify in case of an emergency

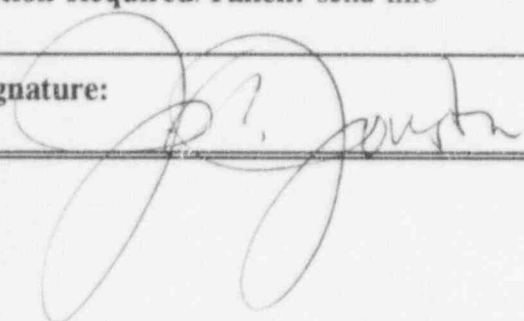
Robert M. Wilkinson	Work (609) 722-9060
RSO	Home (609) 859-4175

Erik Still	Work (206) 883-0777
Corporate RSO	Home (206) 861-9556

Troxler 24 hour number	(919) 549-8308
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Item 11 WASTE MANAGEMENT

Disposal of radioactive materials will be by transfer of the materials to an authorized recipient as under 20.301(a) of 10 CFR Part 20.

TELEPHONE CONVERSATION RECORD		Date: 2/24/97	Time: 10:45
Mail Control No.: 124272		License No.: 29-28576-01	Docket No.: 030-31907
Person Called: Robert Wikinson RSO		Organization: Golder Construction Services, Inc.	Telephone Number: (609) 722-9060
Person Calling: J Joustra			
Subject: need additional info for license amendment			
Summary: 1. need to confirm that training certifications will be maintained for 3 years 2. need to confirm that temporary storage area is under control of Golder and only Golder will be authorized to access the storage area.			
Action Required/Taken: send info			
Signature: 		Date: 2/24/97	

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 30323-0199

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 29-28576-01
☐ C. RENEWAL OF LICENSE NUMBER

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

Golder Construction Services, Inc.
305 Fellowship Road
Suite 200
Mt. Laurel, New Jersey 08054

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

See Attached 8-1/2 x 11 papers

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Robert M. Wilkinson

TELEPHONE NUMBER
(609) 722-9060

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. AS MANAGEMENT

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

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 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

James E. Whitty (Associate)

SIGNATURE

DATE

FOR NRC USE ONLY

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

DATE

124272
FEB 14 1997

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Golder Associates Inc.
102 Gaither Drive
Suite 5
Mt. Laurel, New Jersey 08054
(Storage Only)

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16821 Wood Road
Lansing, Michigan 48906
(Storage Only)

Golder Construction Services, Inc.
8715 Schroeder Road
Richmond, Virginia 23229
(Storage Only)

Temporary sites in states subject to NRC's regulation & authority.
(Use & Storage)

Item 5 RADIOACTIVE MATERIAL

5.1. Radioisotopes used:

Cesium 137
Americium 241: Berillium

5.2. Sealed sources used: Manufactured by: Amersham

Cs: Model A-102112
Am: A-102451

5.3. Radioactive material

Cs-137 (8.0 mCi): Not to exceed 10 mCi per source and 200 mCi total
Am-241:Be (40.0 mCi): Not to exceed 50 mCi per source and 1000 mCi total.

5.4. Gauging devices used:

Troxler 3400 series units
3401-B
3411-B
3440
Campbell Pacific Nuclear unit
CPN 131

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10.4. Nuclear gauge maintenance is performed by Troxler Electronic Laboratories Inc.

10.5. Packaging and transportation of nuclear gauges will be conducted in accordance with Subpart E of 49 CFR Part 172 and Subpart I of 49 CFR Part 173 of the Department of Transportation regulations.

10.6. Miscellaneous:

10.6.1. Personal monitoring

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10.6.2. Storage facility layouts (see Attachments 2, 3 and 4)

10.6.3. Storage

The gauges shall be stored in their containers and the containers kept in a locked storage area at all times when not in use. Access to the storage area shall be through authorized personnel only.

10.6.4. Transportation

The gauges shall not be transported in passenger airlines.

AMMENDMENT TO LICENSE NUMBER 29-28576-01

The gauges may be transported in the yellow containers, by motor vehicle under the "YELLOW II" label without placarding the vehicle as required by 49 CFR 177.823.

When transported, the locks shall be in place and the containers placed in a portion of the vehicle which can be locked.

The container has a Transport Index of 0.1 or greater and shall not be less than 30 centimeters from passengers when in vehicle transport as per 49 CFR 174.586.

The gauge shall not be stored for more than 8 hours at less than 1 meter from undeveloped film.

10.6.5. Leak Testing

Leak testing shall be performed by the RSO. If the RSO cannot perform the leak test, a designated trained person may conduct the leak test. All testing shall be in accordance with the instructions contained within the Troxler Electronic Laboratories Model 3880 Leak Test Kit:

"The regulations require that the gauge be leak tested at intervals not to exceed six months to ensure that the radioactive materials is securely contained in the gauges. The leak test shall be performed using the Troxler Model 3880 Leak Test Kit and accompanying instructions. To perform the test on the Model 3400 gauge, first remove the scaler modular from the front of the gauge. Looking down into the cavity of the scaler, you will see a yellow radiation label approximately in the middle of the gauge and to the top of the circuit board. Wipe the yellow label. Second, turn the gauge on one side. On the bottom of the gauge you will see the opening through which the source rod indexes. Wipe around and into this opening. Please note that source rod remains in the shielded or "safe" position during this procedure."

10.6.6. Individuals to notify in case of an emergency

Robert M. Wilkinson	Work (609) 722-9060
RSO	Home (609) 859-4175

Erik Still	Work (206) 883-0777
Corporate RSO	Home (206) 861-9556

Troxler 24 hour number	(919) 549-8308
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Item 11 WASTE MANAGEMENT

Disposal of radioactive materials will be by transfer of the materials to an authorized recipient as under 20.301(a) of 10 CFR Part 20.

NO. 367

ATTACHMENT 1

Geophysical Training Consultants

CERTIFY THAT

ROBERT M. WILKINSON

OF

GOLDER ASSOCIATES, INC.

Has successfully completed the portable nuclear gauge training seminar for operators and is versed in radiation safety principles, practices and use of gauging devices.

Michael S. J. [Signature]

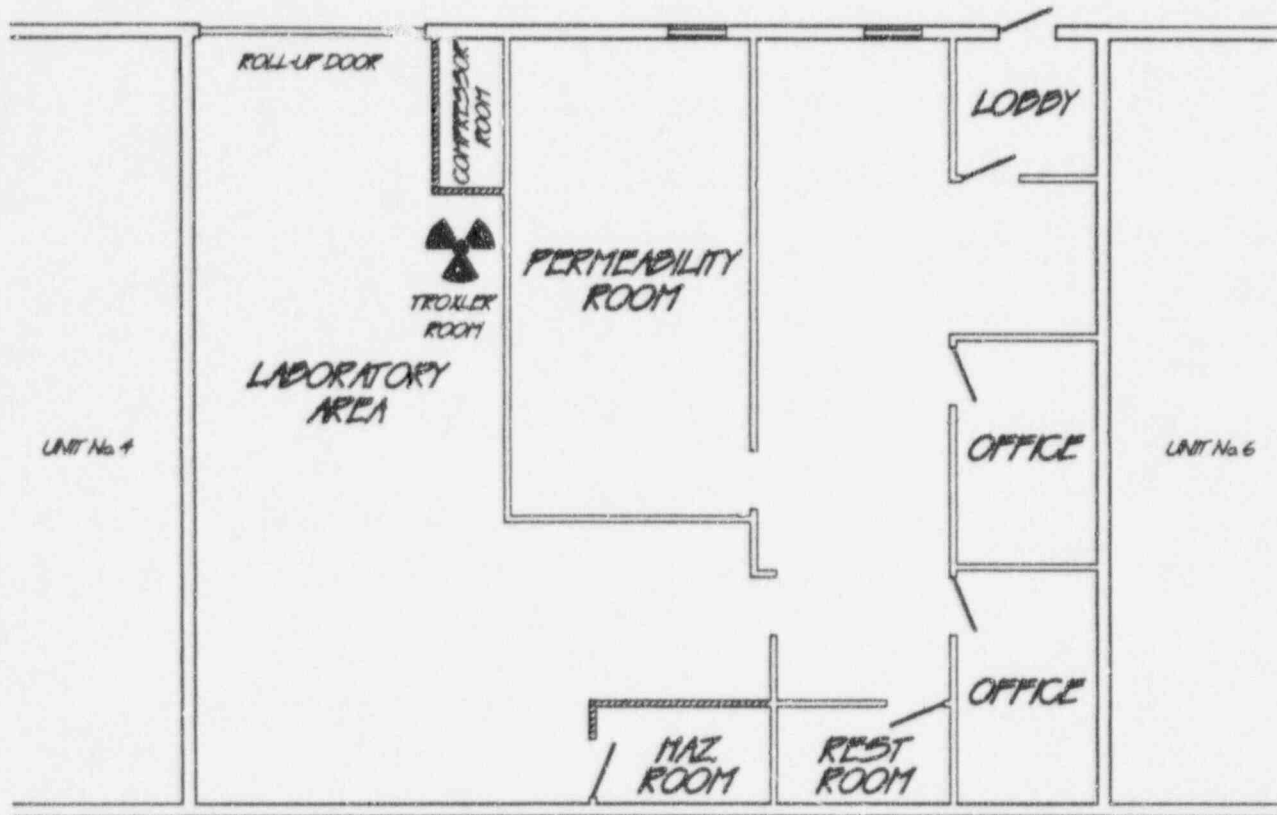
Instructor

12/05/90

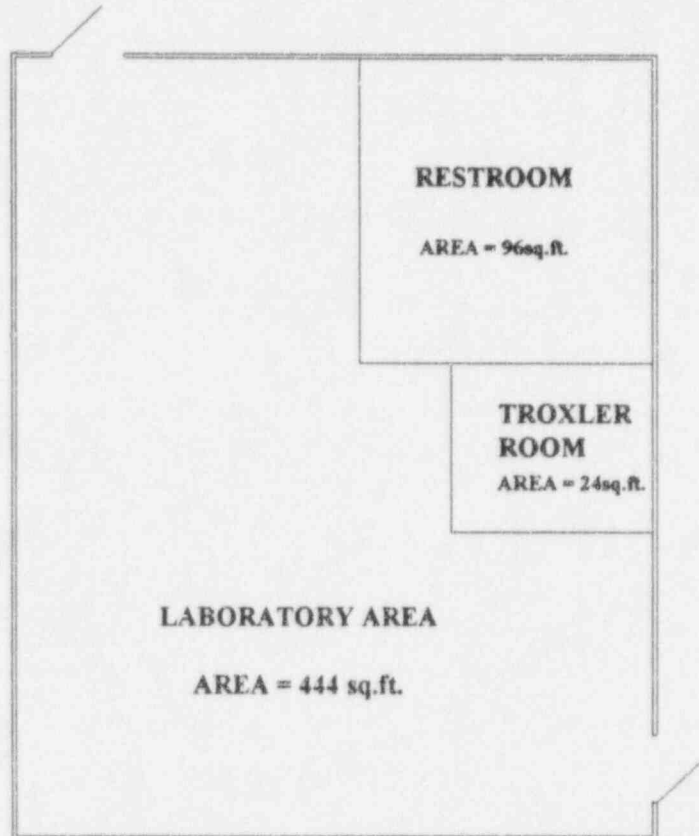
Date

EMPLOYEE PARKING

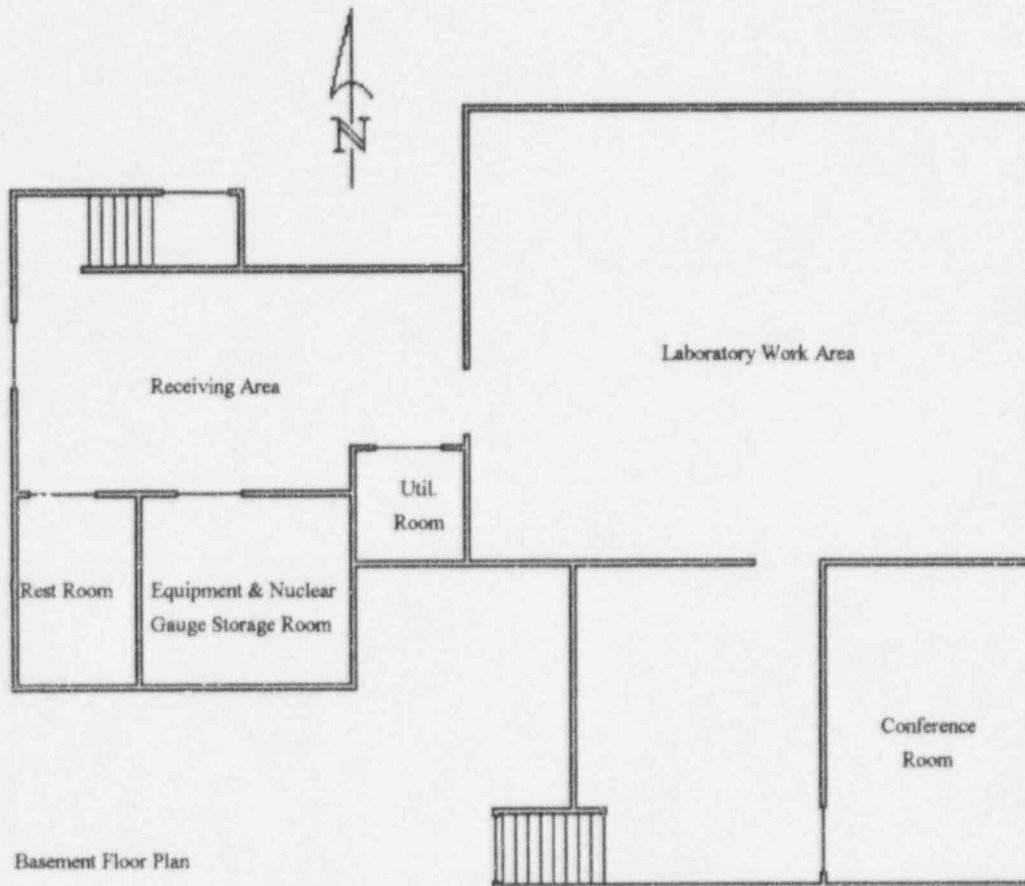
UNIT No. 5



JOB No.:	IP3-LAB	SCALE:	1"=10'	GOLDER ASSOCIATES LABORATORY No. 2 GAITHER DRIVE - UNIT 5 MOUNT LAUREL, NEW JERSEY	
DR BY:	JSG	DATE:	02/02/95		
CHK BY:	JZV	FILE No.:	PA17-182		
REV BY:		DR SUBTITLE:	02		
Golder Associates				GOLDER ASSOCIATES LABORATORY	FIGURE 1



JOB No.	IP3 - LAB	SCALE	NOT TO SCALE	GCS RICHMOND LABORATORY 8715B SHRADER ROAD RICHMOND, VIRGINIA
DR BY.	LAH	DATE	8/19/96	
CHK BY.	<i>JAN</i>	FILE No.		
REV BY.		DR SUBTITLE		
Golder Construction Services		GCS RICHMOND LABORATORY		FIGURE 1



JOB No.	IP3 - LAB	SCALE	NOT TO SCALE	GCS LANSING LABORATORY 16821 WOOD ROAD LANSING, MICHIGAN
DR BY.	LAH	DATE:	9/30/96	
CHK BY.	<i>JBW</i>	FILE No:		
REV BY.		OR SUBTITLE		
Golder Construction Services				GCS LANSING LABORATORY
				<small>FIGURE</small> 1

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001GOLDER CONSTRUCTION SERVICES, INC.
ATTN: ROBERT M. WILKINSON
305 FELLOWSHIP ROAD
SUITE 200
MT. LAUREL, NJ 08054

TYPE OF ACTION

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

REQUESTED DATE

2-3-97

LICENSE NUMBER

29-28576-01

CONTROL NUMBER

124272 ✓

I. APPLICATION FEE DUE

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

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

FEE(s) DUE	\$	300.00
PAYMENT RECEIVED	\$	290.00
AMOUNT DUE	\$	10.00

☒ Your request was received without the prescribed application fee.

☒ We received your Check No. 4164 in the amount of \$ 290.00. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

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

II. FEE NOT REQUIRED

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

III. CHECK RETURNED

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

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

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

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

SIGNATURE -- LICENSE FEE ANALYST

LFDCB

LFDCB

Distribution:

Region I

Pending

BBrown

LFARL R/F

OC/DAF R/F

OC/DAF S/F (LF-3.2.7)

DATE

BRENDA BROWN 301-415-6055

3/5/97

3-5-97

BETWEEN:

```
: PROGRAM CODE: 03121  
: STATUS CODE: 0  
: FEE CATEGORY: 3P  
: EXP. DATE: 20010531  
: FEE COMMENTS:  
: DECOM FIN ASSUR REQD: N
```

A. REGION I

2. FEE ATTACHED
AMOUNT: \$290.00
CHECK NO.: 464

SIGNED M. A. Perkins
DATE 2/18/92

1. FEE CATEGORY AND AMOUNT: 3P \$300

3. OTHER -----

SIGNED _____
DATE _____

3/19/97
Mike AT Called at the
request of Jenny Johnson,
"Acting Chief" who
inquired of F&ES was handling
up the action for \$10.00 I told
Mike yes - re B / response received
to my letter yet re fee due of \$10.00

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03121
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 20010531
FEE COMMENTS:
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: GOLDER CONSTRUCTION SERVICES, INC.
RECEIVED DATE: 970214
DOCKET NO: 3031907
CONTROL NO.: 124272
LICENSE NO.: 29-28576-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$290.00
CHECK NO.: 4164

3. COMMENTS

SIGNED
DATE

M. A. Perkins
2/18/97

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

1. FEE CATEGORY AND AMOUNT: 3P \$300

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

AMENDMENT
RENEWAL
LICENSE

3. OTHER

SIGNED
DATE

I (97)

Log	<u>2/15</u>
Re: <u>GOLDER ASSOCIATES, INC.</u>	
Check No.	<u>*4164 / 4185</u>
Amount	<u>\$290 + 18/2</u>
Fee Cat #307	<u>3P</u>
Type of Fee	<u>AM</u>
Date Check Recd	<u>2/28/97</u>
Date Completed	<u>4/1/97</u>
By:	<u>KS</u>

3/19/97
Mike RT Called at the
request of Jenny Johnson,
"Acting Chief", who
inquired if FEES was heading
up the action for \$10.00 I took
Mike yes - no \$ / response need
to my letter get re: fee due of \$10.00