

MATERIALS LICENSE

Amendment No. 14

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.

302433

Licensee

In accordance with letter dated
March 6, 19973. License Number 21-17007-01 is amended in
its entirety to read as follows:

4. Expiration Date July 31, 1998

5. Docket or
Reference No. 030-120406. 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 Electronic
Labs, Inc., Drawing
A-102112)A. 30 sources not
to exceed 9
millicuries each

B. Americium-241

B. Sealed source
(Troxler Electronic
Labs, Inc., Drawing
A-102451)B. 30 sources not
to exceed 44
millicuries each

C. Cesium-137

C. Sealed source
(Humboldt
Scientific, Inc.,
Drawing No. 2200064)C. 10 sources not
to exceed 11
millicuries each

D. Americium-241

D. Sealed source
(Humboldt
Scientific, Inc.,
Drawing No. 2200067)D. 10 sources not
to exceed 44
millicuries each

E. Cesium-137

E. Sealed source
(CPN Co., Drawing
No. CPN-No. 131)E. 10 sources not
to exceed 10
millicuries each

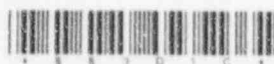
F. Americium-241

F. Sealed source
(CPN Co., Drawing
No. CPN-No. 131)F. 10 sources not
to exceed 50
millicuries each

G. Americium-241

G. Sealed source
(Troxler Electronic
Labs, Inc., Drawing
A-100337 or
A-100608)G. 3 sources not
to exceed 300
millicuries each

230057

COPY 230
50

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

21-17007-01

Docket or Reference Number

030-12040

Amendment No. 14

- | | | |
|---|---|--|
| 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 |
| H. Californium-252 | H. Sealed source (Troxler Electronic Labs. Dwg. A-105162 or A-105862) | H. No single source to exceed 100 microcuries |

9. Authorized Use:

- A. and B. To be used in Troxler Model 3400 Series moisture/density gauges for measuring moisture and density of construction materials.
- C. and D. To be used in Humboldt Scientific, Inc. 5001 Series moisture/density gauges for measuring moisture and density of construction materials.
- E. and F. To be used in Campbell Pacific Nuclear (CPN) Model MC Series moisture/density gauges for measuring moisture and density of construction materials.
- A. To be used in Troxler Model 4640 Series surface density gauges for measuring density of construction materials.
- G. To be used in Troxler Model 3241 Series asphalt content gauges for determining asphalt content of bituminous mixes.
- H. To be used in Troxler Model 3242 asphalt content gauge to measure asphalt content in construction material.

CONDITIONS

10. A. Licensed material may be stored at the following CTI and Associates, Inc. locations:

6400 Jackson
Ann Arbor, MI

26091 Sherwood
Warren, MI

12482 Emerson Drive
Brighton, MI

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

21-17007-01

Docket or Reference Number

030-12040

Amendment No. 14

- B. Licensed material shall be used at temporary job-sites of the licensee anywhere in the United State where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The Radiation Safety Officer for this license is James C. Meehle.
12. Licensed material shall only be used by, or under the supervision and in the physical presence of individuals who have successfully completed the license's training program for gauge users as described in letters dated June 30, 1995, and October 9, 1995, or by individuals who have successfully completed the manufacturer's training program for gauge users. These individuals shall be instructed in the licensee's routine and emergency operating procedures and shall be designated in writing as authorized users by the licensee's Radiation Safety Officer. The licensee shall maintain records of individuals designated as users and their training for 5 years following the last use of licensed material by the individual.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- 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 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Sealed sources 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

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

21-17007-01

Docket or Reference Number

030-12040

Amendment No. 14

- (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 transferred 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.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. 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 shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The 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 may be disposed of following Commission inspection.
- F. The licensee is authorized to collect leak test samples for analysis by Stanley A. Huber Consultants, 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.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders 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 shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

21-17007-01

Docket or Reference Number

030-12040

Amendment No. 14

18. 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.
19. 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.
20. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
21. The licensee shall maintain records of information-related to decommissioning at the location listed in Item 2. of this license as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
22. 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 U.S. 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 October 15, 1992 and April 30, 1993 (with attachments); and
- B. Letters dated July 6, 1993 (with attachments dated April 30, 1993, revised), December 20, 1994 (with attachments), June 30, 1995, October 9, 1995, and March 6, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

JUN 10 1997

By

Charles F. Dill

Nuclear Materials Licensing Branch, Region III

COPY

(FOR LPHS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03121
Status Code: 0
Fee Category: 3P
Exp. Date: 19980731
Fee Comments:
Decon Fin Assur Req: N

58

1997 MAR 21 PM 1:22

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: CTI AND ASSOCIATES, INC.
Received Date: 970319
Docket No: 3012040
Control No.: 302433
License No.: 21-17007-01
Action Type: Amendment

2. FEE ATTACHED

Amount: 360
Check No.: 26236

3. COMMENTS

Signed
Date

S. Hersey
3-20-97

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

SC
3/25/97

APR 01 1997

Log	Mar 10 TH
Remitter	
Check No.	26236
Amount	#360 (#300) Refund #60
Fee Category	3P
Type of Fee	AmD
Date Chg'd	3/21/97
Date Completed	3/25/97
By	SC

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 (MNB8 7714), 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:

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

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW
MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8084

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S.
TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94598-5368

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 21-17007-01
☐ C. RENEWAL OF LICENSE NUMBER _____

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

CTI and ASSOCIATES, INC.
12482 Emerson Drive
Brighton, MI 48116

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

12482 Emerson Drive - Brighton, MI 48116
6400 Jackson Road - Ann Arbor, MI 48103
26091 Sherwood, Suite 102 - Warren, MI 48091

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

James C. Meehle

TELEPHONE NUMBER

(810) 486-5100

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. James C. Meehle	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 AMOUNT ENCLOSED \$ 360.00
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, 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 C. Meehle Manager Construction Services

SIGNATURE

DATE

3-12-97

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED \$	CHECK NUMBER	COMMENTS
APPROVED BY	DATE			<div style="text-align: right;"> RECEIVED MAR 19 1997 302433 REGION III </div>	



and
ASSOCIATES,
INCORPORATED
GEOTECHNICAL, ENVIRONMENTAL &
CONSTRUCTION MATERIALS ENGINEERS

March 06, 1997

Mr. Charles Gill
US Nuclear Regulatory Commission - Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

Re: Amendment to Radioactive Materials License No. 21-17007-01

Dear Mr. Gill:

Please note this correspondence is to request an amendment to the above referenced radioactive materials license.

We request specifically that the following items be amended:

- Item 3: Addresses where material will be used or possessed.
- Item 4: Name of Person to be contacted about this application.
- Item 7: Individual responsible for radiation safety program and their training experience. (See Exhibit No. 1)
- and
- Item 9: Facilities & Equipment (updated floor plan of facilities showing where the gauges will be stored will be included).

These changes are outlined in more detail on NRC Form 313 and attachments.

I have enclosed a check in the amount of \$360.00 to cover the cost of the amendment fees. If you have any questions regarding the requested amendments please call me at (810) 486-5100.

Sincerely,

CTI and ASSOCIATES, INC.

James C. Meehle
Project Manager

RECEIVED

MAR 19 1997

REGION III

MAR 19 1997

Exhibit 1

PROFESSIONAL RESUME

NAME: JAMES C. MEEHLE
POSITION: PROJECT MANAGER

EDUCATION/CERTIFICATION/REGISTRATION:

Certified Aggregate Inspector
Certified Bituminous Inspector
Certified Level II Concrete Inspector
Certified Level II Visual Weld Inspector
Certified Nuclear Density Gauge Operator

PROFESSIONAL EXPERIENCE:

1996 - Present - CTI and Associates, Inc., Brighton, Michigan

Project Manager of up to 30 technicians, engineers, and staff support personnel. Project manager duties include scheduling, report review, manage and coordinate daily operations and training personnel, setting up new jobs, writing proposals, overseeing construction projects and budgeting.

1994 - 1996 - CTI and Associates, Inc., Flint, Michigan

District Manager of up to 10 technicians, and staff support personnel.

1992 - 1994 - CTI and Associates, Inc., Ann Arbor, Michigan

District Manager of up to 25 technicians, engineers, and staff support personnel since 1992. District manager responsibilities include generation of proposals and bids, project management, field technician scheduling and report review, and field supervision/monitoring of construction projects.

1991 - 1992 - CTI and Associates, Inc., Farmington Hills, Michigan

Project Supervisor of 16 technicians for up to 30 projects, coordinating testing and scheduling services and field supervision.

1990 - 1991 - CTI and Associates, Inc. Farmington Hills, Michigan

Senior Engineering Technician performing field and laboratory testing of soils, soil borings, concrete, shallow foundations, bituminous paving, bolt torque inspection, visual weld inspection, ultrasonic thickness testing, reinforcing steel inspection, and metal deck inspection.

1988 - 1990 - Professional Service Industries, Inc., Auburn Hills, Michigan

Project Manager supervision 6 technicians coordinating daily testing and inspection requirements testing and monitoring of deep and shallow foundations, pre-cast concrete structures, pull-out testing and post-tension inspections, structural steel inspection including liquid dye penetrant inspection.

PROFESSIONAL RESUME OF:
JAMES C. MEEHLE
PAGE TWO

1985 - 1988 - Professional Service Industries, Inc. - Flint, Michigan

Senior Engineering Technician performing laboratory and field testing of soils, soil borings, concrete, and asphalt including shallow foundations, roof inspections, structural steel inspections, pre-cast concrete and post tension inspection, D-load testing of concrete pipe, and ultrasonic thickness testing on steel vessels.

REPRESENTATIVE PROJECTS:

Flint Metropolitan Parking Structure
Shiawassee River Bridge Crossing
U of M Flint and Ann Arbor - various projects
Ford Romeo Engine Plant
General Motors Truck and Bus, Metal Fab and other
Plant Facilities
Buick City Development
County Farms Recreation Center
Wal Mart - various sites in Michigan
Home Depot - various sites in Michigan and Ohio
Kmart - Jackson and Canton, Michigan
Meijer - Lapeer, Michigan
Gordon Food Service Market Place - various Michigan sites

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JIM MEEHLE

of

CTI AND ASSOCIATES

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 |

Frank L. Jones
FRANK L. JONES

CERTIFICATE #: 068339

4/26/95

WILLIAM F. TROXLER

INSTRUCTOR

DATE

PRESIDENT

ADDRESSES WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

12482 Emerson Drive - Brighton, MI - Same Location as in previous amendment.
6400 Jackson Road - Ann Arbor, MI - Same Location as in previous amendment.
26091 Sherwood, Suite 102 - Warren, MI- See attached Drawing. New location within same building. (See Exhibit No. 2)

ADDRESSES WHERE LICENSED MATERIAL HAD BEEN USED OR POSSESSED

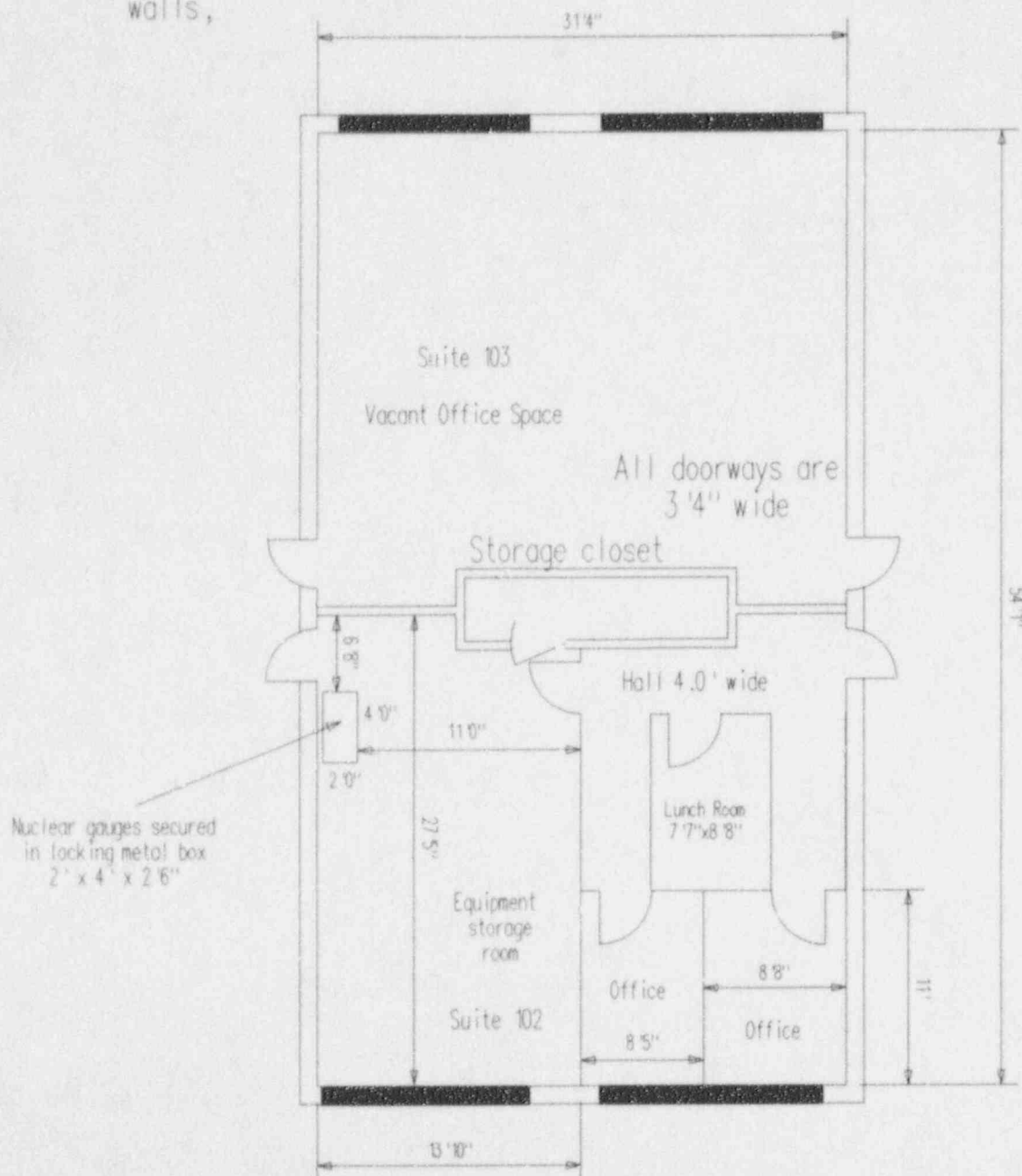
5070 W. Pierson Rd. - Flint, MI
Office **closed** as of February 28, 1997. All sources relocated to our Brighton location.

3803 Gembrit Circle - Kalamazoo, MI
Assets of office **sold** to Technical Construction Services, Inc.(TCS). This will include 5 nuclear moisture density gauges when TCS receives a Material License from the US Nuclear Regulatory Commission. See attached wipe test and TCS's Application for Material License. (See Exhibit No. 3)

5427 Crippen Ave. - Grand Rapids, MI
This office has been **closed**. All sources were relocated to our other offices at that time. This closure was reflected in our amendment application dated July 5, 1996. (See Exhibit No. 4)

Exhibit No. 2

Double lines indicate
brick outer walls,
Single lines indicate
drywall interior
walls,



WARREN OFFICE NUCLEAR GAUGE STORAGE ROOM LAYOUT

26091 SHERWOOD, SUITE 102
WARREN, MI 48091



**and
ASSOCIATES,
INCORPORATED**

GEOTECHNICAL, ENVIRONMENTAL &
CONSTRUCTION MATERIALS ENGINEERS

PROJECT:

SCALE: 1" = 20'

DATE: 3/6/97

PLATE: 11



Exhibit 3 - includes Wipe Tests

Technical Construction Services, Inc.

3803 Gembrit Circle • Kalamazoo, MI 49001

Phone (616) 373-5500 • Fax (616) 373-5594

GEOTECHNICAL & CONSTRUCTION MATERIALS ENGINEERS

February 28, 1997

Mr. Charles Gill
US Nuclear Regulatory Commission - Region III
801 Warrenville Road
Lisle, Illinois 60532

Re: Application for Material License
NRC Form 313

Dear Mr. Gill:

This letter is to transmit our completed Application for Material License (NRC Form 313), and the additional information required for its submittal. As we discussed by telephone, Technical Construction Services, Inc. is a new company formed by the former employees of the Kalamazoo branch of CTI and Associates, Inc. If there are any questions regarding this letter or the attached materials, please contact me at the above telephone number.

Sincerely,

TECHNICAL CONSTRUCTION SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Greg S. Bills', is written over the company name.

Gregory S. Bills, P.E.
President

Enc) NRC Form 313
Additional Information for Form 313
Facilities Diagram
Radiation Safety Plan
Resume & Certificate for Errol F. Gilbert
NRC Form 577 and Check #1013

NRC FORM 313

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES 6-30-94

(6-93)
10 CFR 30.32, 33
34, 35, 38, 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 (MIBB 7714), 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 2000
ATLANTA, GA 30323-0190

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.

IF YOU ARE LOCATED IN:

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

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

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW
MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING,
SEND APPLICATIONS TO:

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

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S.
TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94596-5568

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

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

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

Technical Construction Services, Inc.
3803 Genbrit Circle
Kalamazoo, Michigan 49001

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

Licensed material will be stored at Technical Construction Services, Inc., 3803 Genbrit Circle, Kalamazoo, MI 49001 and will be used at temporary jobsites within the United States where the U.S.NRC maintains jurisdiction for regulating the use of licensed material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Gregory S. Bills

TELEPHONE NUMBER
(616) 373-5500

REMIT 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 (Enrol F. Gilbert, RSO)	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS
9. FACILITIES AND EQUIPMENT	10. RADIATION SAFETY PROGRAM
11. WASTE MANAGEMENT	12. LICENSE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY 3P AMOUNT ENCLOSED \$ 300.00
13. CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING 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, 38, 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 82 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 - TYPEPRINTED NAME AND TITLE

Gregory S. Bills, President

SIGNATURE

DATE

FOR NRC USE ONLY

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

TECHNICAL CONSTRUCTION SERVICES, INC.
Additional Information for Form 313
February 28, 1997

Items 1 - 4: Refer to Form 313

Item 5:

Product, Source, and/or Special Nuclear Material	Chemical and/or Physical Form	Maximum Amount that Licensee May Possess at Any One Time
A. Cesium-137	A. Sealed Source (Troxler Electronic Labs, Inc., Drawing A-102112)	A. 30 sources not to exceed 9 millicuries each
B. Americium-241	B. Sealed Source (Troxler Electronic Labs, Inc., Drawing A-102451)	B. 30 sources not to exceed 44 millicuries each
C. Cesium-137	C. Sealed Source (Humboldt Scientific, Inc., Drawing 2200064)	C. 10 sources not to exceed 11 millicuries each
D. Americium-241	D. Sealed Source (Humboldt Scientific, Inc., Drawing 2200067)	D. 10 sources not to exceed 44 millicuries each
E. Cesium 137	E. Sealed Source (CPN Co., Drawing CPN- No.131)	E. 10 sources not to exceed 10 millicuries each
F. Americium-241	F. Sealed Source (CPN Co., Drawing CPN- No.131)	F. 10 sources not to exceed 50 millicuries each
G. Americium-241	G. Sealed Source (Troxler Electronic Labs, Inc., Drawing A-100337 or A-100608)	G. 3 sources not to exceed 300 millicuries each
H. Californium-252	H. Sealed Source (Troxler Electronic Labs, Inc., Drawing A-105162 or A-105862)	H. No single source to exceed 100 millicuries



TECHNICAL CONSTRUCTION SERVICES, INC.

Additional Information for Form 313

February 28, 1997

Page Two

Item 6:

- A. and B.: To be used in Troxler Model 3400 Series moisture/density gauges for measuring moisture and density of construction materials.
- C. and D.: To be used in Humboldt Scientific, Inc. 5001 Series moisture/ density gauges for measuring moisture and density of construction materials.
- E. and F.: To be used in Campbell Pacific Nuclear (CPN) Model MC Series moisture/ density gauges for measuring moisture and density of construction materials.
- A.: To be used in Troxler Model 4640 Series density gauges for measuring density of construction materials.
- G.: To be used in Troxler Model 3241 Series asphalt content gauges for determining asphalt content of bituminous mixtures.
- H.: To be used in Troxler Model 3242 Series asphalt content gauges for determining asphalt content in construction materials.

Item 7:

The Radiation Safety Officer for the activities authorized by this license is Errol F. Gilbert, see attached certificate and resume. His duties and responsibilities will be those listed in appendix C of Draft Regulatory Guide DG-008. Management will do everything in its power to ensure Mr. Gilbert has the time and information necessary to perform his RSO duties to the best of his abilities.

Item 8:

All personnel who will be using devices under this license will be required to do so in the physical presence of Errol F. Gilbert or to have successfully completed the manufacturer's or other qualified organization's device operation and radiation safety course. All users of devices under this license will be designated by the Radiation Safety Officer and will have been instructed in the TCS routine and emergency operating procedures. In-house refresher courses will be provided on an annual basis to update personnel on the TCS safety program and inform them of any changes.

Item 9:

The facility named in item 3 is in a commercially zoned area. There are no residential areas within 1/4 mile of the facility. The storage locker for



Technical Construction Services, Inc.
GEOTECHNICAL & CONSTRUCTION MATERIALS ENGINEERS

TECHNICAL CONSTRUCTION SERVICES, INC.

Additional Information for Form 313

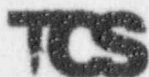
February 28, 1997

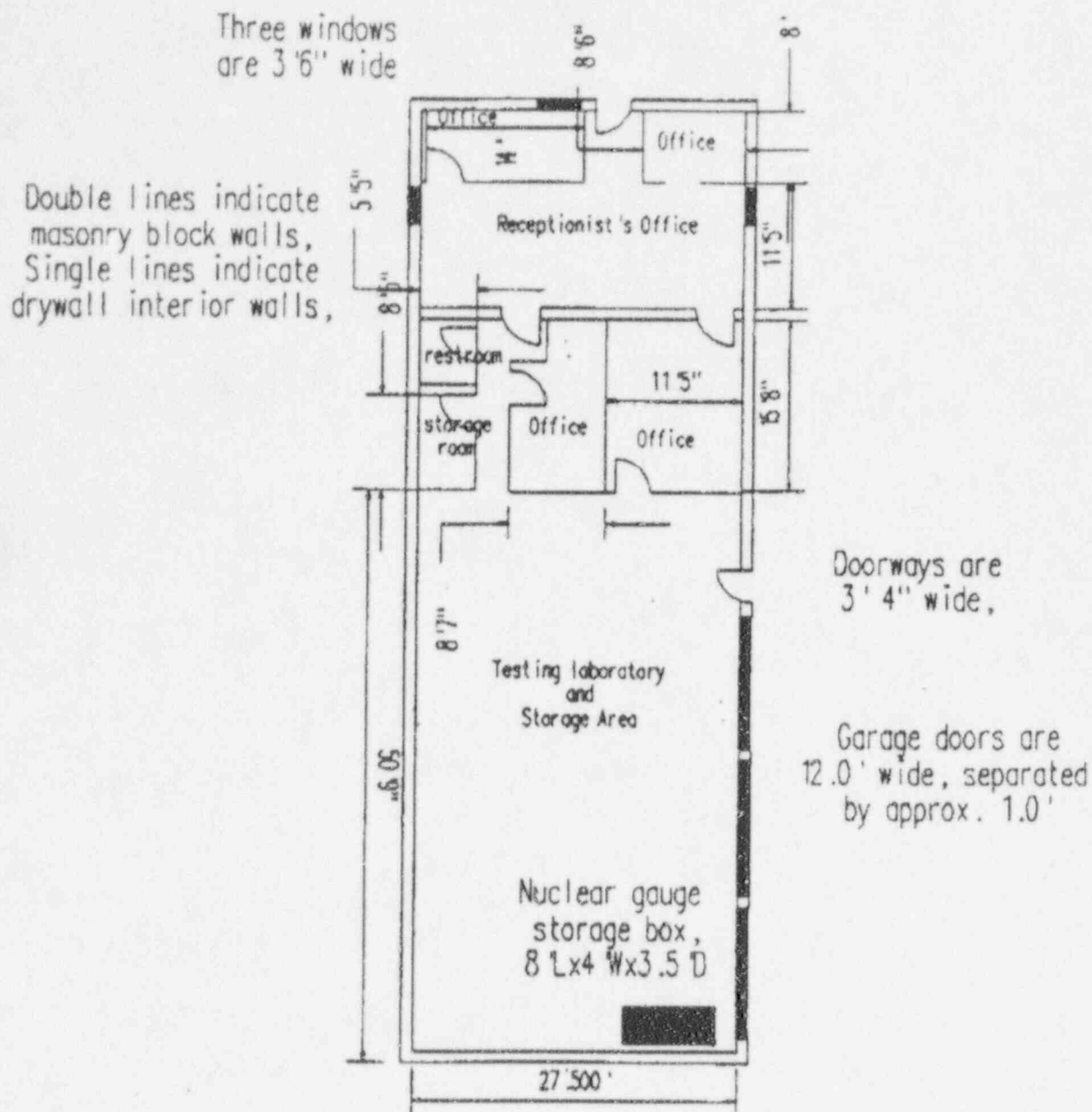
Page Three

the devices under this license is shown on the attached Facility Diagram at the location designated in Item 3. The storage locker is to be padlocked at all times and is situated away from usual work spaces and in an area which cannot be readily accessed by the general public to prevent access by unauthorized persons. Warning signs are posted on the storage locker and on the outside door to the locker area to notify the general public. Keys to the storage locker are given only to authorized personnel designated by the RSO. Gauges are to be returned to the storage locker when they are not in use.

Item 10: See attached Radiation Safety Program

Item 11: Disposal will be performed by a specifically authorized licensee of the NRC. In most cases, disposal will be performed by the original supplier.





OFFICE LAYOUT
 TECHNICAL CONSTRUCTION SERVICES, INC.
 3803 GEMBRIT CIRCLE
 KALAMAZOO, MICHIGAN



Technical
 Construction
 Services, Inc.

3803 GEMBRIT CIRCLE • KALAMAZOO, MI 49001

PROJ#:

DATE:

2/28/97

PLATE:

1

TECHNICAL CONSTRUCTION SERVICES, INC.
RADIATION SAFETY PROGRAM

February 28, 1997

1. A copy of this Radiation Safety Program is to be provided to each person designated by the Radiation Safety Officer (RSO) to use Nuclear Density Gauges.

2. Personnel Monitoring Equipment:

Each employee engaged with the use and care of the Nuclear Density Gauges is required to wear a TLD badge to monitor emissions from the devices. These badges are provided by Landauer, Inc. and are issued every quarter (3 months). Landauer reports will be posted for one quarter, then filed as part of the companies permanent record.

3. Radiation Detection Equipment:

TCS owns and operates a Troxler Survey Meter to verify the source integrity and check emissions of a gauge after an incident, or anytime the source integrity is questioned.

4. Leak Testing:

Leak testing of the gauges will be performed by the RSO or a qualified person he designates to perform the leak test. Leak testing is to be performed every 6 months. A commercial leak test kit is provided by Stan Huber Consultants, Inc.; 200 N. Cedar Rd., New Lenox, IL 60451; NRC License No. 12-17503-01; Illinois Dept. of Nuclear Safety No. IL-00317-01. Test results will be kept on file as part of the gauges maintenance record.

5. Maintenance:

Routine maintenance, such as cleaning or minor repairs are performed with the source rod in the safe/shielded position. Major repairs requiring removal of the source rod are sent to the licensed manufacturer or other organization specifically licensed for such work.

6. Transportation of Devices to Temporary Jobsites:

Transportation of devices to field locations is done in accordance with the applicable requirements of the DOT and Michigan DOT. The required labels on the container of the devices are displayed as per DOT and MDOT requirements. Proper transport papers are also carried by the technicians in charge of the device, including a Bill of Lading, Shipping Manifest, and Operating and Emergency Procedures.



Technical Construction Services, Inc.
GEOTECHNICAL & CONSTRUCTION MATERIALS ENGINEERS

TECHNICAL CONSTRUCTION SERVICES, INC.
RADIATION SAFETY PROGRAM
February 28, 1997
Page Two

7. Operating Procedures for Nuclear Gauging Devices

A. Personnel Monitoring

Personnel authorized in handling devices are required to wear TLD badges at all times. Badges are not to be stored near devices or left in direct sunlight. Badge reports are a part of the companies permanent record.

B. Use of Nuclear Gauges

Each person authorized to use a device will be trained in its operation by an experienced operator. Instruction Manuals will be available for review of step-by-step procedures. Each person must use only the gauge assigned to them on the daily schedule. Utilization logs located in the traveling papers must be filled out on a daily basis.

C. Storage of Devices

When not in use, the devices will be kept in the designated storage locker. The locker will be kept padlocked at all times and access restricted to authorized personnel only. While on temporary jobsites the devices will be under constant physical surveillance by the authorized operator or be stored securely in a non-hazardous, safe area, secured in the technicians transport vehicle with the source rod locked in the safe position. Under no circumstances is the gauge to be left unattended without the proper safety/security steps taken.

D. Transportation

Transportation of devices from laboratory to work site and back must be done under the guidance of the RSO. Proper labeling and paperwork must accompany each device when in transit. Both the DOT and MDOT rules and regulations for transport of devices will be adhered to. At no time will a device be permitted to ride next to a passenger and/or driver.

E. Leak Testing for Gauging Devices

Leak tests are normally to be performed by the RSO using Leak Test Kits supplied by a qualified consultant. However, he may train a designee to perform leak tests for him from time to time.

F. Emergency Procedures

See attached, "Troxler Nuclear Gauge Emergency Response Information"



TROXLER NUCLEAR GAUGE EMERGENCY RESPONSE INFORMATION
(Reference DOT P5800.5 ERG93, and 49CFR)

1. **PROPER SHIPPING NAME**

RADIOACTIVE MATERIAL, SPECIAL FORM, NOS.7, UN2974

POTENTIAL HAZARDS

2. **HEALTH HAZARDS**

- a. Radiation presents minimal risk to lives of persons during transportation accidents.
- b. Undamaged packages are safe; damaged packages or materials released from packages can cause external radiation hazards. Contamination is not suspected.
- c. Packages (cartons, boxes, drums, articles, etc.) identified as "Type A" by marking on packages or by shipping papers contain non-life endangering amounts. Radioactive sources may be released if packages are damaged in moderately severe accidents.
- d. Packages (large and small, usually metal) identified as "Type B" by marking on packages or by shipping papers contain potentially life endangering amounts. Because of design, evaluation, and testing of packages, life endangering releases are not expected in accidents except those of utmost severity.
- e. Commonly available instruments can detect most of these materials.
- f. Water from cargo fire control is not expected to cause pollution.

3. **FIRE OR EXPLOSION**

- a. Packaging can be consumed without content loss from sealed source capsule.
- b. Radioactive source capsules and Type B packages are designed to withstand temperatures of 1475°F(800°C).

EMERGENCY ACTION PLAN

4. **IMMEDIATE PRECAUTIONS**

- a. Priority response actions may be performed before taking radiation measurements.
- b. Priorities are live-saving, control of fire and other hazards, and first aid.
- c. Isolate hazard area and deny entry. (This should be minimum of a 15 foot radius)
- d. Notify Radiation Authority of accident conditions.
- e. Retain uninjured persons, isolate equipment with suspected contamination, and delay final cleanup until instruction or advise of Radiation Authority.
- f. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide adequate protection against internal radiation exposure, but not external radiation exposure.
- g. **EMERGENCY ASSISTANCE CONTACTS AND PHONE NUMBERS:**
 - I. Technical Construction Services, Inc., Mr. Errol F. Gilbert, Radiation Safety Officer, (616) 373-5500 (office), or (616) 323-9435 (home).
 - II. Troxler Electronic Laboratories, Inc. (24hr.) Emergency Assistance, (919) 839-2676.
 - III. United States Nuclear Regulatory Commission, Region III, Illinois (630) 829-9500; NRC Operation Center (24hr) (310) 816-5100, back-up (301) 951-0550, fax (301) 816-5151.

5. **FIRE**

- a. Do not move damaged packages; move undamaged packages out of fire zone.
- b. Small Fires: Use a Dry Chemical, CO₂ water spray or regular foam.
- c. Large Fires: Water spray, fog (flooding amounts)

6. **SPILL OR LEAK**

- a. Do not touch damaged packages or spilled material.
- b. Slight damage or damp outer surfaces seldom indicate failure of inner container.
- c. If source is identified as being out of package, stay away and await advise from Radiation Authority.

7. **FIRST AID**

- a. Use first aid treatment according to the nature of injury.
- b. Persons exposed to special form sources are not likely to be contaminated with radioactive material.

PROFESSIONAL RESUME

NAME: Errol Gilbert

POSITION: Operations Manager

**PROFESSIONAL
EXPERIENCE:**

Errol has ten years of progressive experience in a responsible position monitoring and supervising construction activities for commercial and industrial buildings, power plants, and highways. Various tasks have included inspection of concrete, mortar, grout, soils, and asphalt materials, the installation of foundations including piles, as well as fireproofing, reinforcing steel, and large scale land balancing supervision. Errol has worked as a team leader on large projects supervising other technicians, and coordinating schedules between the testing agency and multiple contractors and fabricators.

**EDUCATION/
CERTIFICATION/
REGISTRATION:**

Western Michigan University-Engineering Metallurgy 1988-1989
Henry Ford Comm. College - Manufacturing Engineering 1987
Western Michigan University - Engineering Technology 1983-1986
NICET Level II Asphalt
Masonry Inst. of Mich. Certified Masonry Inspector
MDOT Certified Bituminous Plant Technician
MDOT Certified Aggregate Technician
MCA Certified Level I Concrete Technician
Certified Windsor Probe Operator
Certified Nuclear Gauge Operator
State of MI DNR Storm Water Management-Construction Site
PCI Certified Level I Technician/Inspector
American Society of Certified Engineering Technicians

**REPRESENTATIVE
PROJECTS:**

Western Michigan University - Kalamazoo, MI
Recreation System

Performed testing and inspection of auger cast piles for deep foundations, bearing capacity for shallow foundations, soil compaction, EPDM roofing, metal decking, concrete, waterproofing and floor flatness profiles using F system, and performed C780 tests for unit masonry components.

Upjohn Building 335 - Kalamazoo, MI

Performed load tests and inspection of auger cast piles for deep foundations. Bearing capacity evaluations for shallow foundations, soil compaction, and concrete testing.



Technical Construction Services, Inc.
GEOTECHNICAL & CONSTRUCTION MATERIALS ENGINEERS

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

ERROL F. GILBERT, JR.

of

TESTING ENGINEERS AND CONSULTANTS, INC.

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

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

- | | |
|--|---|
| 1. Principles and practices of radiation protection. | 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

JULY 12, 1988

DATE

No 27067

W.F. TROXLER

PRESIDENT

NRC FORM 577

U.S. NUCLEAR REGULATORY COMMISSION

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 20555-0001

TYPE OF ACTION

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

REQUESTED DATE

2-3-97

LICENSE NUMBER

21-17007-01

CONTROL NUMBER

302293

TECHNICAL CONSTRUCTION SERVICES, INC.
ATTN: GREGORY S. BILLS, P.E.
PRESIDENT
3803 GEMBRIT CIRCLE
KALAMAZOO, MI 49001

I. APPLICATION FEE DUE

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

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

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

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

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

SIGNATURE - LICENSE FEE ANALYST

Shirley Crutchfield
SHIRLEY CRUTCHFIELD

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.

DATE

(LEAVE BLANK)

Feb. 18, 1997

TECHNICAL CONSTRUCTION SERVICES, INC.

1-97

1013

3803 GEMBRIT CIR. 816-373-5500
KALAMAZOO, MI 49001

Feb 28 1997

8-9/720
531

PAY TO THE ORDER OF US Nuclear Regulatory Commission
Three Hundred & 00/100

\$ 300.00

DOLLARS

COMERICA

Comerica Bank
Kalamazoo, Michigan

FOR Application for Material License

[Signature]

⑈001013⑈ ⑈072000096⑈ 1850328800⑈

STAN A. HUBER CONSULTANTS, INC.

200 NORTH CEDAR ROAD -- NEW LENOX IL 60461-1761 -- PHONE 815-485-8161

SEALED GAMMA/BETA SOURCES - LEAK TEST CERTIFICATE

REPORT DATE 2/24/97
FACILITY CTI & ASSOCIATES INC
KALAMAZOO MI

NRC LICENSE NUMBER 21-17007-01
STATE LICENSE NUMBER

SOURCE IDENTIFICATION

RADIONUCLIDE Cs-137 / Am-241 Be
ACTIVITY 80 / 40 mCi
CALIB. DATE 1/19/88
MANUFACTURER TROXLER
MODEL NUMBER 3401-B
SERIAL NUMBER 15777
OTHER DESCRIPTION

ASSAY RESULTS

ISOTOPE Cs-137 COUNTING EFFICIENCY: 0.216
BACKGROUND AT TIME OF ASSAY: 135

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	111	0	0	< 0.000001
DRY WIPE	109	0	0	< 0.000001

ISOTOPE Am-241 COUNTING EFFICIENCY: 0.835
BACKGROUND AT TIME OF ASSAY: 47

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	49		2	0.000001
DRY WIPE	75	28	34	0.000015

ANALYSIS PERFORMED USING

Packard Auto-Gamma Scintillation Spectrometer Model #D5003 Serial #406282 AND/OR
Packard 1900CA Tri-Carb Liquid Scintillation Analyzer Model #A1900 Serial #101464

ANALYSIS OF RESULTS

Sources are not leaking at this time
Removable contamination is less than 5F-3 uCi (005)

NEXT LEAK TEST DUE Aug-97

LEAK TEST PERFORMED BY ERROL GILBERT DATE 2/11/97

ANALYSIS PERFORMED BY S A HUBER DATE 2/24/97

RADIATION SAFETY OFFICER SIGNATURE

Stan A. Huber

STAN A. HUBER CONSULTANTS, INC.

200 NORTH CEDAR ROAD -- NEW LENOX IL 60451-1761 -- PHONE 815-486-6161

SEALED GAMMA/BETA SOURCES - LEAK TEST CERTIFICATE

REPORT DATE 2/24/97

FACILITY CTI & ASSOCIATES INC
KALAMAZOO MI

NRC LICENSE NUMBER 21-17007-01

STATE LICENSE NUMBER

SOURCE IDENTIFICATION

RADIONUCLIDE Cs-137 / Am-241 Be
ACTIVITY 80 / 40 mCi
CALIBR. DATE 7/15/88
MANUFACTURER TROXLER
MODEL NUMBER 3440 A
SERIAL NUMBER 16655
OTHER DESCRIPTION

ASSAY RESULTS

COUNTING EFFICIENCY 0.216
BACKGROUND AT TIME OF ASSAY 103

ISOTOPE Cs-137

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	103	0	0	< 0.000001
DRY WIPE	101	0	0	< 0.000001

COUNTING EFFICIENCY 0.835
BACKGROUND AT TIME OF ASSAY 47

ISOTOPE Am-241

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	57	10	12	0.000005
DRY WIPE	72	25	30	0.000013

ANALYSIS PERFORMED USING

Packard Auto-Gamma Scintillation Spectrometer Model #D5003 Serial #406282 AND/OR
Packard 1900CA Tri-Carb Liquid Scintillation Analyzer Model #A1900 Serial #101464

ANALYSIS OF RESULTS

Sources are not leaking at this time
Removable contamination is less than $5E-3$ uCi (0.005)

NEXT LEAK TEST DUE Aug-97

LEAK TEST PERFORMED BY ERROL GILBERT *Smith* DATE 2/11/97

ANALYSIS PERFORMED BY S A HUBER DATE 2/24/97

RADIATION SAFETY OFFICER SIGNATURE

Robert R. Moore

STAN A. HUBER CONSULTANTS, INC.

200 NORTH CEDAR ROAD -- NEW LENOX IL 60461-1761 -- PHONE 815-485-6161

SEALED GAMMA/BETA SOURCES - LEAK TEST CERTIFICATE

REPORT DATE: 2/24/97
FACILITY: CTI & ASSOCIATES INC
KALAMAZOO MI

NRC LICENSE NUMBER: 21-17007-01
STATE LICENSE NUMBER:

SOURCE IDENTIFICATION

RADIONUCLIDE: Cs-137 / Am-241 Be
ACTIVITY: 8.0 / 40 mCi
CALIBR DATE:
MANUFACTURER: TROXLER
MODEL NUMBER: 3411-B
SERIAL NUMBER: 15859
OTHER DESCRIPTION:

ASSAY RESULTS

ISOTOPE: Cs-137
COUNTING EFFICIENCY: 0.216
BACKGROUND AT TIME OF ASSAY: 135

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	118	0	0	< 0.000001
DRY WIPE	120	0	0	< 0.000001

ISOTOPE: Am-241
COUNTING EFFICIENCY: 0.835
BACKGROUND AT TIME OF ASSAY: 47

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	58	11	13	0.000006
DRY WIPE	69	22	26	0.000012

ANALYSIS PERFORMED USING

Packard Auto-Gamma Scintillation Spectrometer Model #D5003 Serial #406282 AND/OR
Packard 1900CA Tri-Carb Liquid Scintillation Analyzer Model #A1900 Serial #101464

ANALYSIS OF RESULTS

Sources are not leaking at this time
Removable contamination is less than 5E-3 uCi (0.005)

NEXT LEAK TEST DUE: Aug-97

LEAK TEST PERFORMED BY: ERROL GILBERT DATE: 2/11/97

ANALYSIS PERFORMED BY: S A HUBER DATE: 2/24/97

RADIATION SAFETY OFFICER SIGNATURE

SmH
Robert A. Le

STAN A. HUBER CONSULTANTS, INC.

200 NORTH CEDAR ROAD -- NEW LENOX IL 60451-1761 -- PHONE 815-485-6161

SEALED GAMMA/BETA SOURCES - LEAK TEST CERTIFICATE

REPORT DATE 2/24/97

FACILITY CTI & ASSOCIATES INC
KALAMAZOO MI

NRC LICENSE NUMBER 21-17007-01
STATE LICENSE NUMBER

SOURCE IDENTIFICATION

RADIONUCLIDE Cs-137 / Am-241 Be
ACTIVITY 90 / 40 mCi
CALIBR DATE
MANUFACTURER TROXLER
MODEL NUMBER 3401
SERIAL NUMBER 5527
OTHER DESCRIPTION

ASSAY RESULTS

ISOTOPE Cs-137 COUNTING EFFICIENCY 0.216
BACKGROUND AT TIME OF ASSAY 103

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE		10	46	0.000021
DRY WIPE	105	2	9	0.000004

ISOTOPE Am-241 COUNTING EFFICIENCY 0.835
BACKGROUND AT TIME OF ASSAY 47

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	57	56	67	0.000030
DRY WIPE	67	66	79	0.000036

ANALYSIS PERFORMED USING

Packard Auto-Gamma Scintillation Spectrometer Model #D5003 Serial #406282 AND/OR
Packard 1900CA Tri-Carb Liquid Scintillation Analyzer Model #A1900 Serial #101464

ANALYSIS OF RESULTS

Sources are not leaking at this time
Removable contamination is less than 5E-3 uCi (0.005)

NEXT LEAK TEST DUE Aug-97

LEAK TEST PERFORMED BY ERROL GILBERT DATE 2/11/97

ANALYSIS PERFORMED BY S A HUBER DATE 2/24/97

RADIATION SAFETY OFFICER SIGNATURE

Robert R. Meyer

STAN A. HUBER CONSULTANTS, INC.

200 NORTH CEDAR ROAD -- NEW LENOX IL 62451-1761 -- PHONE 815-465-8161

SEALED GAMMA/BETA SOURCES - LEAK TEST CERTIFICATE

REPORT DATE 2/24/97
 FACILITY CTI & ASSOCIATES INC
 KALAMAZOO MI

JRC LICENSE NUMBER 21-17007-01
 STATE LICENSE NUMBER

SOURCE IDENTIFICATION

RADIONUCLIDE Cs-137 / Am-241 Bc
 ACTIVITY 7.9 / 40 mCi
 CALIBR DATE 06-23-76
 MANUFACTURER TROXLER
 MODEL NUMBER 3401-B
 SERIAL NUMBER 4190
 OTHER DESCRIPTION

ASSAY RESULTS

ISOTOPE: Cs-137 COUNTING EFFICIENCY 0.216
 BACKGROUND AT TIME OF ASSAY 135

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	104	0	0	< 0.000001
DRY WIPE	98	0	0	< 0.000001

ISOTOPE: Am-241 COUNTING EFFICIENCY 0.835
 BACKGROUND AT TIME OF ASSAY 47

	MAX CPM	NET CPM	DPM	ACTIVITY uCi
WET WIPE	50	3	4	0.000007
DRY WIPE	79	32	38	0.000017

ANALYSIS PERFORMED USING

Packard Auto-Gamma Scintillation Spectrometer Model #D5003 Serial #406282 AND/OR
 Packard 1900CA Tri Carb Liquid Scintillation Analyzer Model #A1900 Serial #101464

ANALYSIS OF RESULTS

Sources are not leaking at this time
 Removable contamination is less than $5E-3$ uCi (0.005)

NEXT LEAK TEST DUE Aug-97

LEAK TEST PERFORMED BY ERROL GILBERT DATE 2/11/97

ANALYSIS PERFORMED BY: S A HUBER DATE 2/24/97

RADIATION SAFETY OFFICER SIGNATURE

Smt

Robert R. Nease

Exhibit No. 4

ORM 313

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0120

EXPIRES 6-30-96

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 (MNBB 7714), 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
473 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:

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

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-3084

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94596-5368

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) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>21-17007-01</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____		2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code) CTI AND ASSOCIATES, INC. 12482 EMERSON DR. BRIGHTON, MI 48116			
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 5070 W. PIERSON RD. FLINT, MI 6400 JACKSON, ANN ARBOR MI 3803 GEMBRIT CIRCLE, KALAMAZOO MI 26091 SHERWOOD, WARREN, MI 12482 EMERSON DR. BRIGHTON, MI		4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION ROBERT R. NEAR TELEPHONE NUMBER (810) 486-5100 EXT.228			
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 _____ AMOUNT ENCLOSED \$ 360.00				
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, 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 ROBERT R. NEAR PRESIDENT		SIGNATURE <i>Robert R. Near</i> DATE July 5, 1996			
FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

CTI and ASSOCIATES, INCORPORATED

12482 EMERSON DRIVE
BRIGHTON, MI 48116
(810) 486-5100 FAX (810) 486-5050

NATIONAL BANK OF DETROIT - 52
NOVI, MICHIGAN

26136

9-32/720

CHECK NO.

03/17/97

\$360.00

DATE

AMOUNT

THE SUM OF THREE HUNDRED SIXTY DOLLARS 00/100 ONLY

PAY
TO THE
ORDER
OF

US NUCLEAR REGULATORY COMM.

CTI and ASSOCIATES, INCORPORATED


AUTHORIZED SIGNATURE

⑈026136⑈ ⑆072000326⑆

6626454⑈

DIVISION OF ACCOUNTING AND FINANCE REQUEST FOR REFUND TO EMPLOYEE/VENDOR

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: _____

NAME: CTT & Associates, Inc.

ADDRESS: Attn: James C. Mueller

ADDRESS: 12482 Emerson Drive

CITY: Brighton STATE: MI ZIP: 48116

TRANS CODE: PX

TRANS TYPE: FE FUND: X5280 JOB CODE: _____ AMOUNT: \$60⁰⁰

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: _____

TOTAL REFUND AMOUNT: \$60⁰⁰

COMMENTS: Lic 21-17007-01/CL 26136/yrad
3/12/97 lgrst

(Limit comments to 40 characters, including spaces)

PREPARED BY: Shirley Cutchfield DATE: March 25 1997

AUTHORIZED BY: Shirley Cutchfield DATE: 3/25/97

ORIGINAL INV. NO: _____ DATE PAID: _____ AMOUNT: _____

REFUND ENTERED INTO COLLECT BY: _____

REFUND DETERMINED BY: _____ DATE: _____

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

Mar 10 III
3P AMD #300
CL # 26136 std 3/17/97
#360
302433

JUN 10 1997

James C. Meehle
Radiation Safety Officer
CTI and Associates, Inc.
12482 Emerson Drive
Brighton, MI 58116

Dear Mr. Meehle:

Enclosed is Amendment No. 14 to your NRC Material License No. 21-17007-01 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 at (630) 829-9887 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 the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
 - b. When the mailing address listed on the license changes. (No fee is required if the location of byproduct material remains the same.)

302433

3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when a decision is made to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;
 - 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 Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC

J. Meehle

-3-

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
Charles F. Gill
Nuclear Materials Licensing Branch

License No.: 21-17007-01
Docket No.: 030-12040

Enclosure: Amendment No. 14

DOCUMENT NAME: M:\03012040.CL7

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	DNMS/RIII	<input checked="checked" type="checkbox"/>							
NAME	CFGill:brt	<input checked="checked" type="checkbox"/>							
DATE	06/10/97								

OFFICIAL RECORD COPY