

OFFICIAL RECORD COPY

MATERIALS LICENSE

Amendment No. 10

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

Licensee	In accordance with the application dated September 3, 1996
1. C.T.I. Consultants, Inc.	3. License Number 45-23031-01
2. 14221-B Willard Road Suite 100 Chantilly, VA 22021	is amended in its entirety to read as follows:
	4. Expiration Date July 31, 2004 (Extended)
	5. Docket or Reference No. 030-20195

6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Cesium 137	A. Sealed source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	A. No single source to exceed 407 MBq (11 millicuries)
B. Americium 241	B. Sealed neutron source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	B. No single source to exceed 1.85 GBq (50 millicuries)

9. Authorized Use:

A. and B. Sealed source(s) contained in compatible portable gauging devices (registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation) for measuring properties of materials.

CONDITIONS

10. Licensee's material may be used at the licensee's facilities located at 14221-B Willard Road, Suite 100, Chantilly, Virginia 22021; 770 Harms Street, Suite 104, Charlottesville, Virginia 22905; 905-B Southlake Boulevard, Richmond, Virginia 23236; and at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The Radiation Protection Officer for this license is D. Cliff Thomas.

160112
9610170003 960919
PDR ADOCK 03020195
C PDR

ML20 8/1

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number 45-23031-01

Docket or Reference Number 030-20195

Amendment No. 10

(Continued)

CONDITIONS

12. Licensed material shall be used by, or under the supervision and in the physical presence of, D. Cliff Thomas or other individuals who have been trained in the licensee's standard operating and emergency procedures and have satisfactorily completed at least one of the following:
 - A. The device manufacturer's training course for safe use and handling of portable gauging devices containing licensed material, or
 - B. A portable gauge training program conducted in accordance with the provisions of an NRC or Agreement State license.
13. Sealed sources containing licensed material shall not be opened or removed from the gauging device by the licensee.
14.
 - A. Sealed sources 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. 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.
 - C. Sealed sources need not be leak tested if they contain not more than 100 microcuries of beta and/or gamma emitting material or 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
 - D. The leak 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 in accordance with 10 CFR 30.50(b)(2), 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 II, Division of Nuclear Materials Safety, 101 Marietta Street, N.W., Suite 2900, Atlanta, Georgia 30323-0199. The report shall specify the source involved, the test results, and corrective action taken.
 - E. The licensee is authorized to collect leak test samples for analysis by the device manufacturer. 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.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number 45-23031-01

Docket or Reference Number 030-20195

Amendment No. 10

(Continued)

CONDITIONS

17. The licensee shall maintain records of information important to safe and effective decommissioning at 14221-B Willard Road, Suite 100, Chantilly, Virginia pursuant to the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
18. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum specified 10 CFR 30.35(d) for establishing decommissioning financial assurance.
19. 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.
20. 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.
21. 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 June 30, 1994 [renewal]
- B. Letters dated:
- 1) September 3, 1996 (Addition of two new storage locations for gauges)
 - 2) September 17, 1996 (Facsimile regarding additional information for radiation levels surrounding new storage locations; and Extension of expiration date in accordance with 10 CFR 30.36)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

EARL G. WRIGHT

SEP 19 1996

DATE

BY

*Earl G. Wright*Division of Nuclear Materials Safety
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323-0199

N:\MLICENSE\45-2031.A10

9/19/96



CONSULTANTS, INC.

TELEFAX TRANSMITTAL

TO: U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

ATTN: Mr. Wade Loo

FAX NO: 404-331-7437

FROM:

CTI Consultants, Inc.
14221-B Willard Road
Suite 100
Chantilly, VA 20151

Phone No. (703) 803-6411

Fax No. (703) 803-8085

RE: Amendment to NRC License #45-23031-01

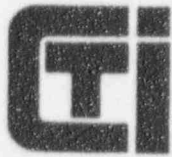
DATE: 9/17/96

NO. OF PAGES TRANSMITTED: 2 (including this page)

NOTES:

SIGNED: Maurice Campbell

PLEASE NOTE: As from July 1, 1996, our new ZIP code is 20151



CONSULTANTS, INC.

14221-B WILLARD ROAD
SUITE 100
CHANTILLY, VA 20151
(703) 803-6411
FAX: (703) 803-8085

September 17, 1996

U.S. Nuclear Regulatory Commission
Region II
Material Radiation Protection Section
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

Attention: Mr. Wade Loo

Reference: Amendment to NRC License #45-23031-01
CTI Consultants Inc.


Dear Mr. Loo:

As discussed, we have surveyed the outside walls of our storage areas for Richmond and Charlottesville. The highest readings obtained were .4MR/HR for Richmond and .02 MR/HR for Charlottesville.

Also, please be advised that I will serve as RSO for these offices. Mr. Schultz and Mr. Piazza will provide oversight and support to me in these duties.

If you should have any questions, please feel free to call me at (703) 803-6411.

Sincerely,


Cliff Thomas
Vice President

CT/mc

cc: NRC File

9/16/96

~1:40

☐ A.M.
☒ P.M.

TELEPHONE OR VERBAL CONVERSATION RECORD

☐ INCOMING CALL

☒ OUTGOING CALL

☐ VISIT

PERSON CALLING

WADE T. LOO

OFFICE/ADDRESS

UNRL-RII ATLANTA, GA

PHONE NUMBER

EXTENSION

404-331-3932

PERSON CALLED

CLIFF THOMAS, RSO, VP

OFFICE/ADDRESS

CTI CONSULTANTS, INC.
CHANTILLY, VA

PHONE NUMBER

EXTENSION

703-803-6411

CONVERSATION

SUBJECT

LIC. AMENDMENT REQUEST LTR DATED 9/3/96

SUMMARY

- CALLED TO CLARIFY LTR ON 2 ISSUES:

① LOCATION OF USE - NO RAD LEVEL MEASUREMENTS FOR 10 CFR 20
COMPLIANCE, UNRECORDED VIE.

② RSO AT BOTH LOCATIONS.

- WILL DO SURVEYS & FAX RESULTS TO ME TO DEMONSTRATE COMPLIANCE
WITH 10 CFR 20.

- AS FOR AS LILENE IS CONCERNED, HE IS STILL RSO; WILL WANT TO
LATER MAKE HIM CORP. RSO, & HAVE 2 INDIVIDUALS AS SITE RSO;
HAVE SITE RSO'S TO OVERSEE DAY TO DAY OPERATIONS.

WTR

ACTION REQUESTED

☐ ADVISE ME OF
ACTION TAKEN.

INITIALS

DATE

ACTION TAKEN

INITIALS

DATE

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: 20040731
: Fee Comments:
: Decom Fin Assur Req'd: N
:

1996 SEP 10 AM 10:50

LICENSE FEE TRANSMITTAL

A. REGION II

1. APPLICATION ATTACHED

Applicant/Licensee: C. T. I. CONSULTANTS, INC.
Received Date: 960905
Docket No: 3020195
Control No.: 257184
License No.: 45-23031-01
Action Type: Amendment

2. FEE ATTACHED

Amount: 300.00
Check No.: 24384

3. COMMENTS

Signed DIANE HEIM
Date 9/5/96

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 Rita Messinger
Date 9/11/96

Log	<u>Sep 3 II</u>
Remitter	<u> </u>
Check No.	<u>24384</u>
Amount	<u>\$300</u>
Fee Category	<u>3P</u>
Type of Fee	<u>Amcl</u>
Date Check Rec'd.	<u>9/11/96</u>
Date Completed	<u>9/11/96</u>
By:	<u>Rita</u>



CONSULTANTS, INC.

14221-B WILLARD ROAD
SUITE 100
CHANTILLY, VA 20151
(703) 803-6411
FAX: (703) 803-8085

September 3, 1996

U.S. Nuclear Regulatory Commission
Region II
Material Radiation Protection Section
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

Attention: License Amendment Section

Reference: Amendment to NRC License #45-23031-01
CTI Consultants Inc.

CTI Consultants Inc. requests to amend our license to store nuclear density gauges at our two new offices.

- I. 770 Harms Street, Suite 104
Charlottesville, Virginia 22905
Radiation Safety Officer: Daniel Schultz
Storage Location: See Attached Sketch
- II. 905-B Southlake Boulevard
Richmond, Virginia 23236
Radiation Safety Officer: Ken Piazza
Storage Location: See Attached Sketch


Our Richmond Office is the same location as Hatcher-Sayre Incorporated. We purchased their Geotechnical Division.

Sketches of storage areas at both offices are attached. We have also included safety training certificates for both RSO's.

Both offices will follow and comply with all provisions of our existing NRC License.

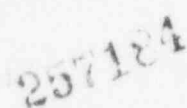
Please find enclosed a check in the amount of \$300.00 for our license amendment fee. If you should have any questions, please feel free to call me at (703) 803-6411.

Sincerely,


Cliff Thomas
Vice President

cc: NRC File

257184



TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

KEN PIAZZA

of

THE LANE CONSTRUCTION CORP.

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 | 5. Radioactivity measurement standardization and monitoring techniques and instruments. |
| 2. Physics and properties of ionizing radiation | 6. Accident and incident procedures. |
| 3. Biological effects of ionizing radiation | 7. Procedures for nuclear gauge storage and transportation. |
| 4. General safety precautions. | 8. General safety precautions. |

Gauge Operation

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

CERTIFICATE #: 057147

FRANK D. JONES

INSTRUCTOR

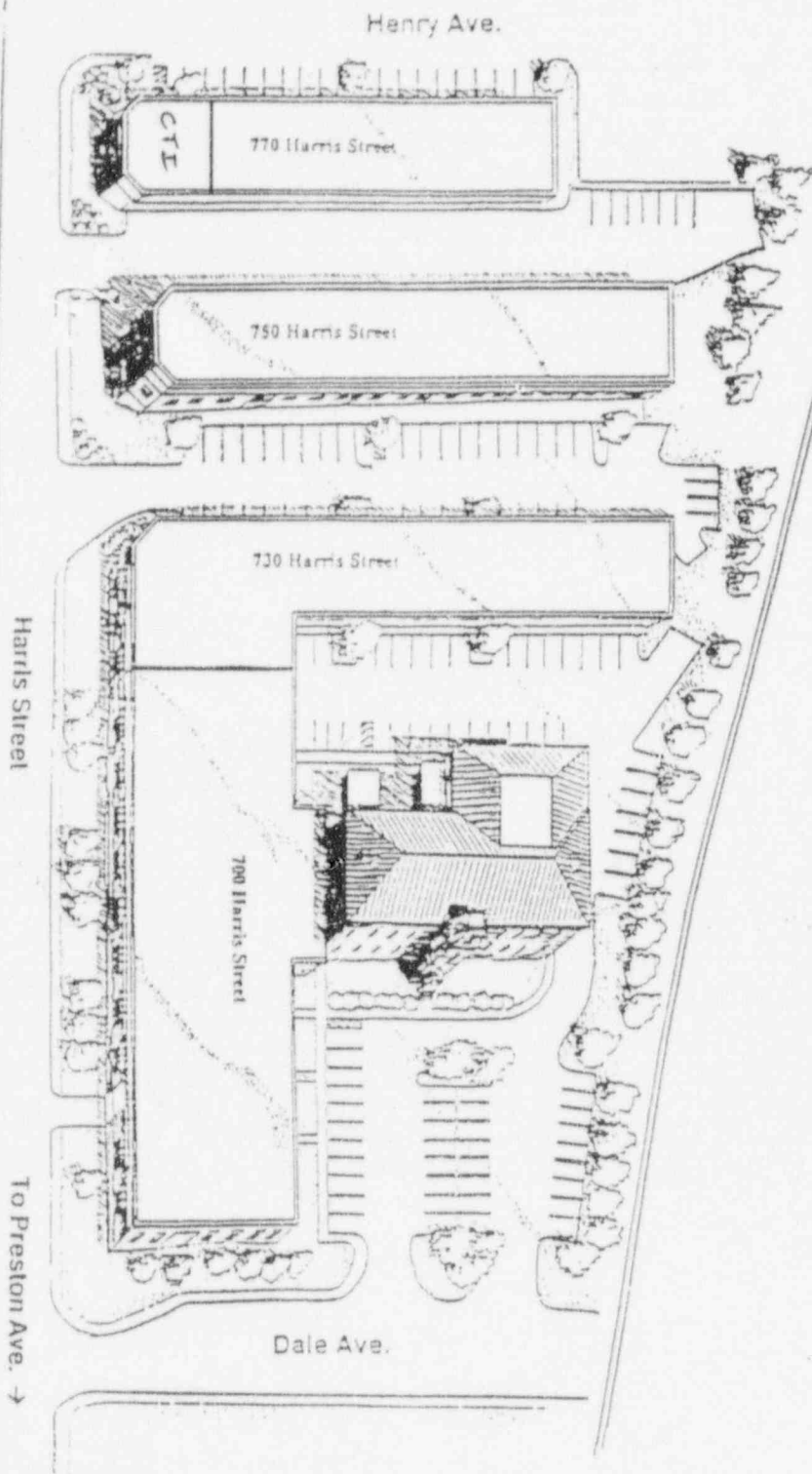
3/32/93

DATE

WILLIAM F. TROXLER

PRESIDENT

Site Plan
 0 10 50 100 150



HARRIS STREET

SITE PLAN

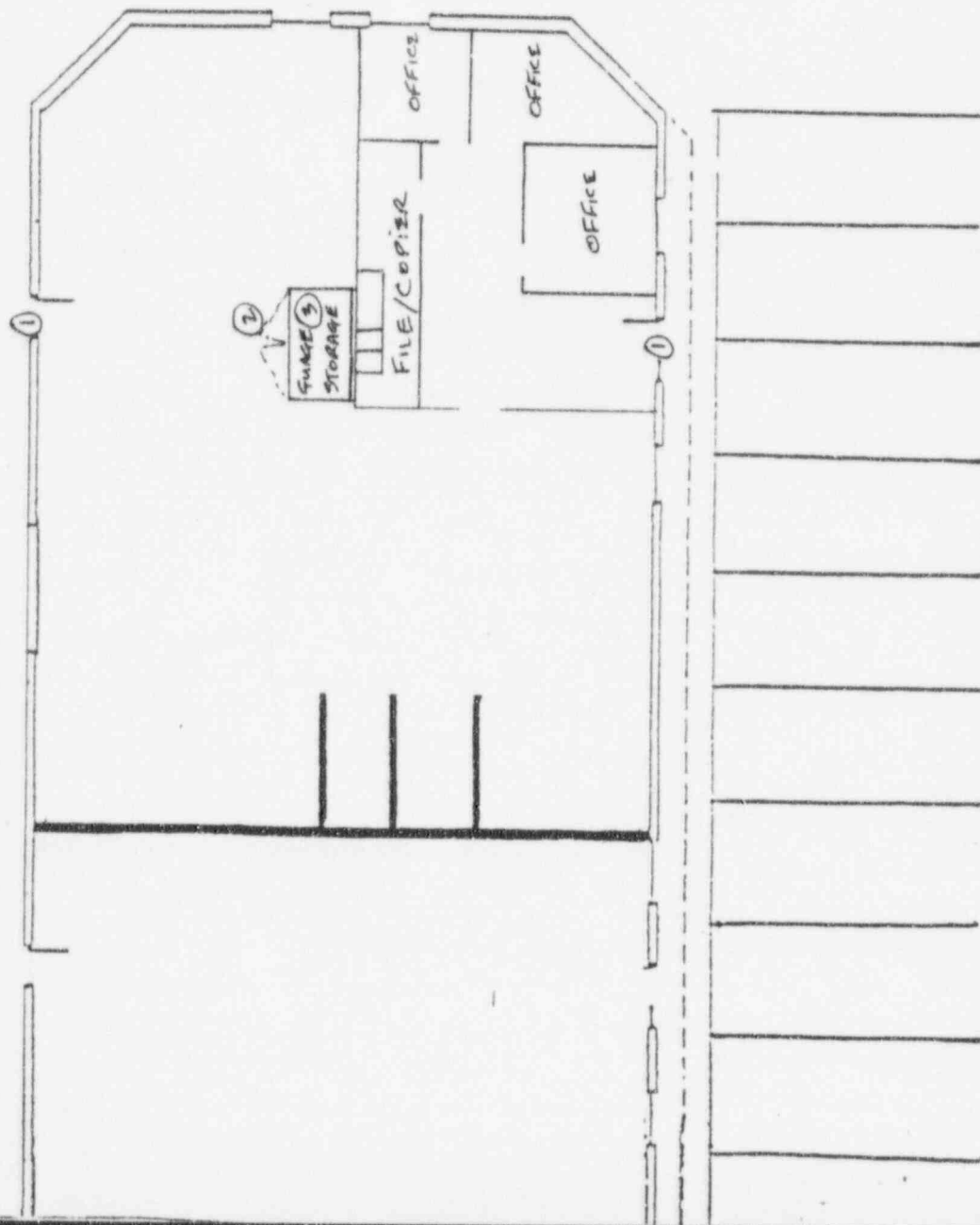
CTI Consultants Inc.

Charlottesville, VA.

207184

- GUAGE STORAGE LOCATION

- STORAGE LOCKER CONSTRUCTED OF
2 x 4 FRAME $\frac{1}{2}$ 3/4" PLYWOOD.



LOCKS.

- ① EXTERIOR BLDG DOORS
- ② STORAGE CABINET
- ③ GUAGE CASE
- ④ GUAGE HANDLE

Professional Service Industries, Inc.

RADIATION SAFETY TRAINING PROGRAM

FOR

RADIATION SAFETY OFFICERS

FOR

MOISTURE/DENSITY GAUGES

THIS IS TO CERTIFY THAT

DAN SCHULTZ

Has Successfully Completed the Approved Corporate Radiation Safety
Training Program for Radiation Safety Officers/Instructors.

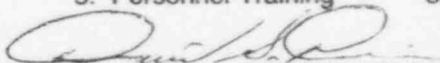
Subjects included in the course were as follows:

REGULATIONS:

1. Security and Control
2. License Conditions
3. Records
4. Transportation
5. Personnel Training

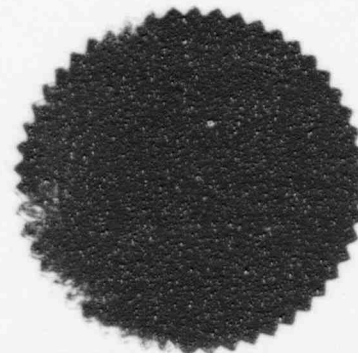
RADIATION SAFETY

1. Principles of Radiation Safety
2. Radiation Dosage Calculations
3. Radiation Detection and Measurement
4. Biological Effects
5. Emergency Procedures


Corporate Radiation Safety Director

10/8/92

Date



507184

OCHS' Technical Services

HEREBY CERTIFIES THAT

Daniel M. Schultz

HAS SUCCESSFULLY COMPLETED THE REQUIRED RADIOLOGICAL SAFETY TRAINING FOR USE OF THE NUCLEAR MOISTURE/DENSITY GAUGE IN ACCORDANCE WITH MD STATE AND USNRC REGULATIONS.

Subjects included in this course were as follows: Radiological Safety - principles and practices of radiation protection; leak testing procedures; measurements of radioactivity; biological effects of radiation; monitoring techniques and methods; accident, incident, storage and transportation procedures; and general safety precautions. Gauge operation - instrument theory, operation procedures, maintenance, field applications, and gauge calibration.

August 5, 1995
Date of Training

William D. Ochs
Instructor
Lic. No. MD-05-137-01