

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

## Licensee

1. The Terracon Companies, Inc.

2. 16000 College Boulevard  
Lenexa, Kansas 66219In accordance with letter dated  
March 12, 19973. License number 15-27070-01 is amended in  
its entirety to read as follows:

4. Expiration date February 28, 2003

5. Docket or  
Reference No 030-321766. 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 sources  
(Campbell Pacific  
Nuclear Model  
CPN-131)A. 36 sources not to  
exceed 10  
millicuries per  
source

B. Americium-241

B. Sealed neutron  
sources (Campbell  
Pacific Nuclear  
Model CPN-131)B. 36 sources not to  
exceed 50  
millicuries per  
source

C. Cesium-137

C. Sealed sources  
(Troxler Dwg. No.  
A-102112)C. 36 sources not to  
exceed 10  
millicuries per  
source

D. Americium-241

D. Sealed neutron  
sources (Troxler  
Dwg. No. A-102451)D. 36 sources not to  
exceed 50  
millicuries per  
source

E. Americium-241

E. Sealed neutron  
sources (CPN Dwg.  
No. CPN-131)E. 10 sources not to  
exceed 100  
millicuries per  
source

F. Americium-241

F. Sealed neutron  
sources (Troxler  
Dwg. No. A-100608)F. 10 sources not to  
exceed 100  
millicuries per  
source

100078

9704100135 970326  
PDR ADDCK 03032176  
C PDR

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ML40

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

15-27070-01

Docket or Reference Number

030-32176

Amendment No. 06

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

G. Cesium-137/  
Americium-241

G. Sealed sources  
(Troxler Dwg. No.  
A-100281)

G. 36 sources not to  
exceed 10  
millicuries of  
Cs-137 or 50  
millicuries of  
Am-241

H. Americium-241

H. Sealed neutron  
sources (Troxler  
Dwg. No. A-100337)

H. 10 sources not to  
exceed 300  
millicuries per  
source

9. Authorized use

A. and B. For use in Campbell Pacific Nuclear Corporation, MC Series, MD Series, and Model 500 Series portable moisture/density gauges for measurement of properties of materials.

C. and D. For use in Troxler Series 3400 portable nuclear moisture/density gauges for measurement of properties of materials.

E. For use in Campbell Pacific Nuclear Corporation AC Series portable moisture/density gauges for measurement of properties of materials.

F. For use in Troxler Model 3241-C portable nuclear moisture/density gauges for measurement of materials.

G. For use in Troxler Model 2401 portable nuclear moisture density gauges for measurement of properties of materials.

H. For use in Troxler Model 3241 asphalt content gauge for measurement of the asphalt content of paving mixes.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

15-27070-01

Docket or Reference Number

030-32176

Amendment No. 06

**CONDITIONS**

10. Licensed material may be stored at the licensee's facilities at 13665 E. 42nd Terrace, Suite K, Independence, MO; 832 NW 67th Street, Suite 1, Oklahoma City, OK; 5865 South Garnett Road, Tulsa, OK; 10840 Executive Drive, Boise ID; 2701 Westland Court, Cheyenne, WY; 2110 Overland Avenue, Suite 124, Billings, MT; 3535 Hoffmann Road E., White Bear Lake, MN; 800 Fee Fee Road, St. Louis, MO; 2220 Welsch Industrial Drive, St. Louis, MO; 2306 Industrial Drive, Columbia, MO; Kansas City International Airport, Kansas City, MO; and used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. 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 letter dated May 24, 1994, and have been approved in writing by the Radiation Safety Officer.  
B. The Radiation Safety Officer for this license is Gary K. Bradley.
12. 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. 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 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

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

15-27070-01

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Amendment No. 06

## 12. (Continued)

(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 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. 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(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 IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards. The report shall specify the source involved, the test results, and corrective action taken.

F. The licensee is authorized to collect leak test samples for analysis by Campbell Pacific Nuclear Corporation, Troxler Electronics, Nuclear Testing Service, or Pacific Nuclear Technology Co. 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 containing licensed material shall not be opened or sources removed from source holders by the licensee.

14. 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.

15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.

16. The licensee may transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

17. 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.



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SUPPLEMENTARY SHEET

License Number

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18. 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. Letter dated September 14, 1992
- B. Letter dated April 19, 1994
- C. Letter dated May 5, 1994
- D. Letter dated May 24, 1994
- E. Facsimile received May 26, 1994
- F. Letter dated August 22, 1994
- G. Letter dated October 15, 1996
- H. Letter dated March 12, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAR 26 1997

By



Nuclear Materials Licensing Section  
Region IV  
Arlington, Texas 76011



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

March 26, 1997

The Terracon Companies, Inc.  
ATTN: Gary K. Bradley  
16000 College Boulevard  
Lenexa, Kansas 66219

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 15-27070-01. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at 817-860-8143.

Note that Condition 10 of your license identifies the requested new locations. However, we cannot remove the 800 Fee Fee Road facility until you provide copies of the most current leak test records of the sources that were stored at this facility. If these records indicate that these sources have not leaked, we will remove this facility from your license in a "fee-exempt" amendment.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive 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: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any

other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
  - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
  - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
  - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
  - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
  - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

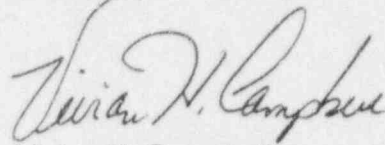
You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; 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" (Enforcement Policy), 60 FR 34381, June 30, 1995.

Terracon Companies, Inc.

-3-

Thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script, reading "Vivian H. Campbell". The signature is written in dark ink and is positioned above the printed name.

Vivian H. Campbell  
Senior Health Physicist  
Nuclear Materials Licensing Branch

Docket: 030-32176  
License: 15-27070-01  
Control: 466338

Enclosures: As stated



MAR 26 1997

DOCUMENT NAME: P:\terracon.mic

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:NMLB	<i>N</i>	RIV:					
VHCampbell							
3 126 196							

OFFICIAL RECORD COPY

## 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: 20030228  
Fee Comments:  
Decom Fin Assur Req'd: N

1997 MAR 19 PM 3: 59

## LICENSE FEE TRANSMITTAL

A. REGION IV

## 1. APPLICATION ATTACHED

Applicant/Licensee: TERRACON COMPANIES, INC., THE  
Received Date: 970318  
Docket No.: 3032176  
Control No.: 466338  
License No.: 15-27070-01  
Action Type: Amendment

## 2. FEE ATTACHED

Amount: \$300.00  
Check No.: 201036

## 3. COMMENTS

Signed  
Date

Billie Muszynski  
3/18/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)1. Fee Category and Amount: 3P \$300

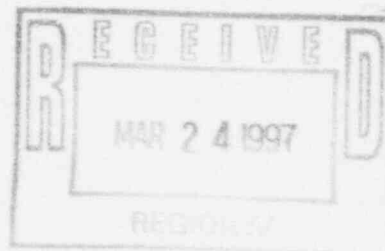
## 2. Correct Fee Paid. Application may be processed for:

Amendment ☒  
Renewal ☐  
License ☐

## 3. OTHER

Signed  
Date

Rita Messier  
3/20/97



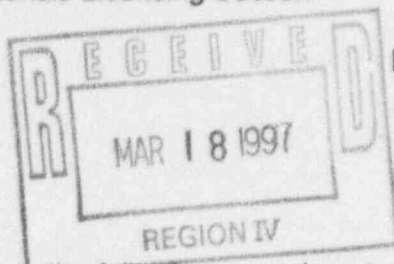
Log	<u>Mar 2 IV</u>
Remitter	
Check No.	<u>0201036</u>
Amount	<u>\$300</u>
Fee Category	<u>3P</u>
Type of Fee	<u>and</u>
Date Check Rec'd.	
Date Completed	<u>3/20/97</u>
By:	<u>Rita</u>

March 12, 1997

US Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011  
Attention: Nuclear Materials Licensing Section

# Terracon

THE TERRACON COMPANIES, INC.  
16000 College Boulevard  
Lenexa, Kansas 66219  
(913) 599-6886 Fax (913) 599-0574



RE: Amendment of US Nuclear  
Regulatory Commission Nuclear  
Materials License # 15-27070-01

Dear Sir/Madame:

Terracon hereby requests the following amendments to NRC license # 15-27070-01:

**Condition 10:**

Terracon Consultants, Inc. has relocated it's St. Louis, MO area office. Please remove the reference to 800 Fee Fee Road, Maryland Heights, MO 63043 and replace with:

Terracon Consultants, Inc.  
2220 Welsch Industrial Drive  
St. Louis, Missouri 63146  
Tel: 816-692-8811 Fax: 816-692-8810

A site map displaying our nuclear density gauge storage area for the office is attached. The local RSO will remain Mr. Mark Roenfeldt, whose training certificate is already on file.

Terracon is also opening a geotechnical engineering office in Columbia, Missouri. We hereby request that the address indicated below be added to our license as a permanent storage location.

Terracon Consultants, Inc.  
2306 Industrial Drive  
Columbia, Missouri 65022  
Tel: 573-447-1100 Fax: 573-446-5869

A site map displaying our nuclear density gauge storage area is attached. The designated local Radiation Safety Officer for the Columbia, Missouri office of Terracon Consultants, Inc. will be Mr. Brad Shay whose nuclear density/moisture gauge training certificate is attached. Mr. Brad Shay is an Engineering Technician with over 15 years experience in nuclear densometry.

In addition, Terracon is requesting the addition of a job site storage trailer as a permanent storage location. This issue was discussed by the undersigned and NRC Radiation Specialist Mr. William Radcliffe during an inspection conducted on February 28, 1997 and in a subsequent telephone conversation with Ms. Billie Gruszynski of the Region IV Nuclear Materials Licensing Section.

Offices of The Terracon Companies, Inc.

Arizona ■ Arkansas ■ Colorado ■ Idaho ■ Illinois ■ Iowa ■ Kansas ■ Minnesota ■  
Missouri ■ Montana ■ Nebraska ■ Nevada ■ Oklahoma ■ Texas ■ Utah ■ Wyoming

Geotechnical, Environmental and Materials Engineers

QUALITY ENGINEERING SINCE 1965

4 6 6 3 3 8

Terracon has been awarded a long-term (approximately 2 year) geotechnical engineering/materials testing project for construction of two parking garages at the Kansas City International Airport, which is approximately 35 miles from our principal permanent storage location in Lenexa, Kansas. Terracon has been storing nuclear density/moisture gauges at a lockable job site trailer at the K.C. International Airport since work began on the project. Because of the distance between the airport and the Lenexa, Kansas office, and because additional projects are underway in the vicinity of the airport, Terracon hereby requests that the lockable job trailer located near Terminal C just east of Cookingham Drive at Bern St., at the Kansas City International Airport be designated a permanent storage location. The trailer is located within Federal Aviation Administration airport security gates. A K.C. International Airport map displaying the location of our storage trailer is attached. Mr. Terry Lipp will be designated the Local Radiation Safety Officer for the K.C. International Airport permanent storage location. Mr. Lipp is an engineering technician with approximately 10 years experience in nuclear densometry. A nuclear density/moisture gauge training certificate for Mr. Lipp is attached. Mr. Lipp will be actively supported in his role by the Corporate Radiation Safety Officer and the Lenexa, Kansas local Radiation Safety Officer. The telephone number at the job site trailer is:

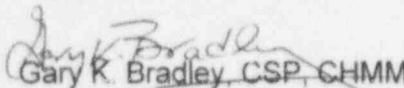
(816) 870-9230

Pager No. for designated RSO: (816) 870-9230.

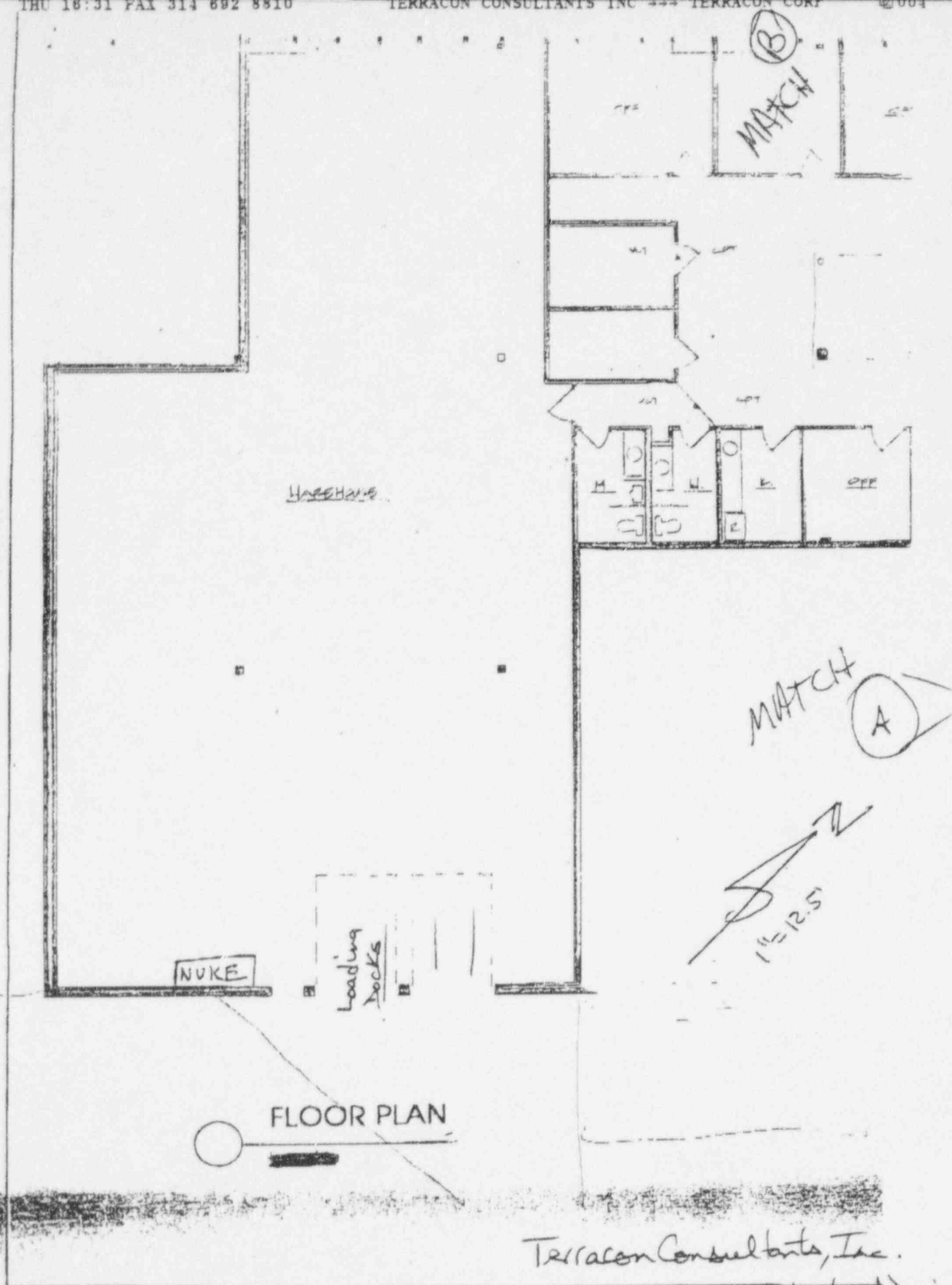
Gauges will be locked in the storage trailer when not actually in use at the project site and will be signed in and signed out appropriately when used at sites other than K.C. International Airport. All other items and conditions will remain as indicated on License # 15-27070-01. With the inclusion of the \$300 amendment fee, we trust this amendment request is complete. If you have any questions regarding this request, or any other aspect of The Terracon Companies, Inc. radiation safety program or practices, please contact the undersigned at (913) 599-6886 or at the address indicated on this letterhead.

Sincerely,

THE TERRACON COMPANIES, INC.

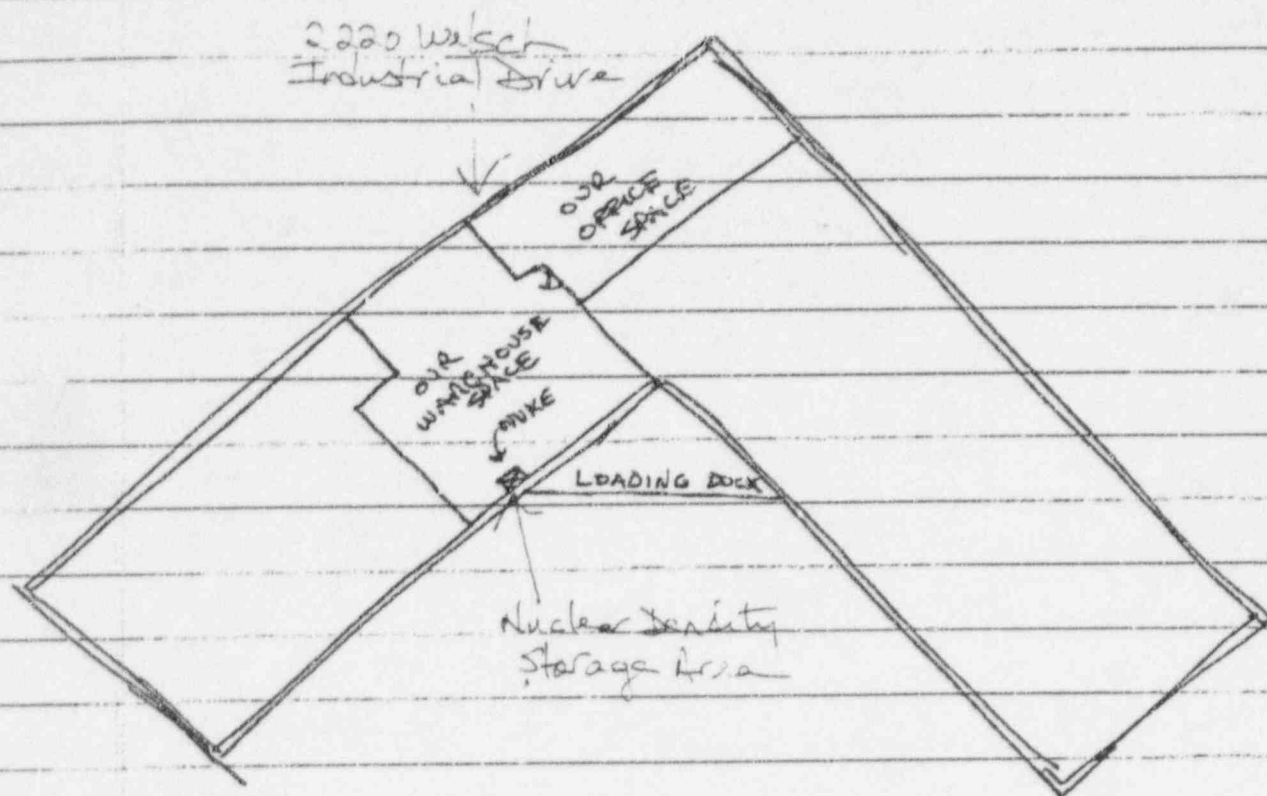
  
Gary K. Bradley, CSP, CHMM  
Corporate Safety and Health Manager/  
Corporate Radiation Safety Officer





Terracon Consultants, Inc.  
2220 Welch Industrial Drive  
St. Louis, Mo. 63146

## PAGE AVENUE



Terracon Consultants, Inc.  
2220 Weisch Industrial Drive  
St. Louis, Mo. 63146  
Tel: (816) 692-8811



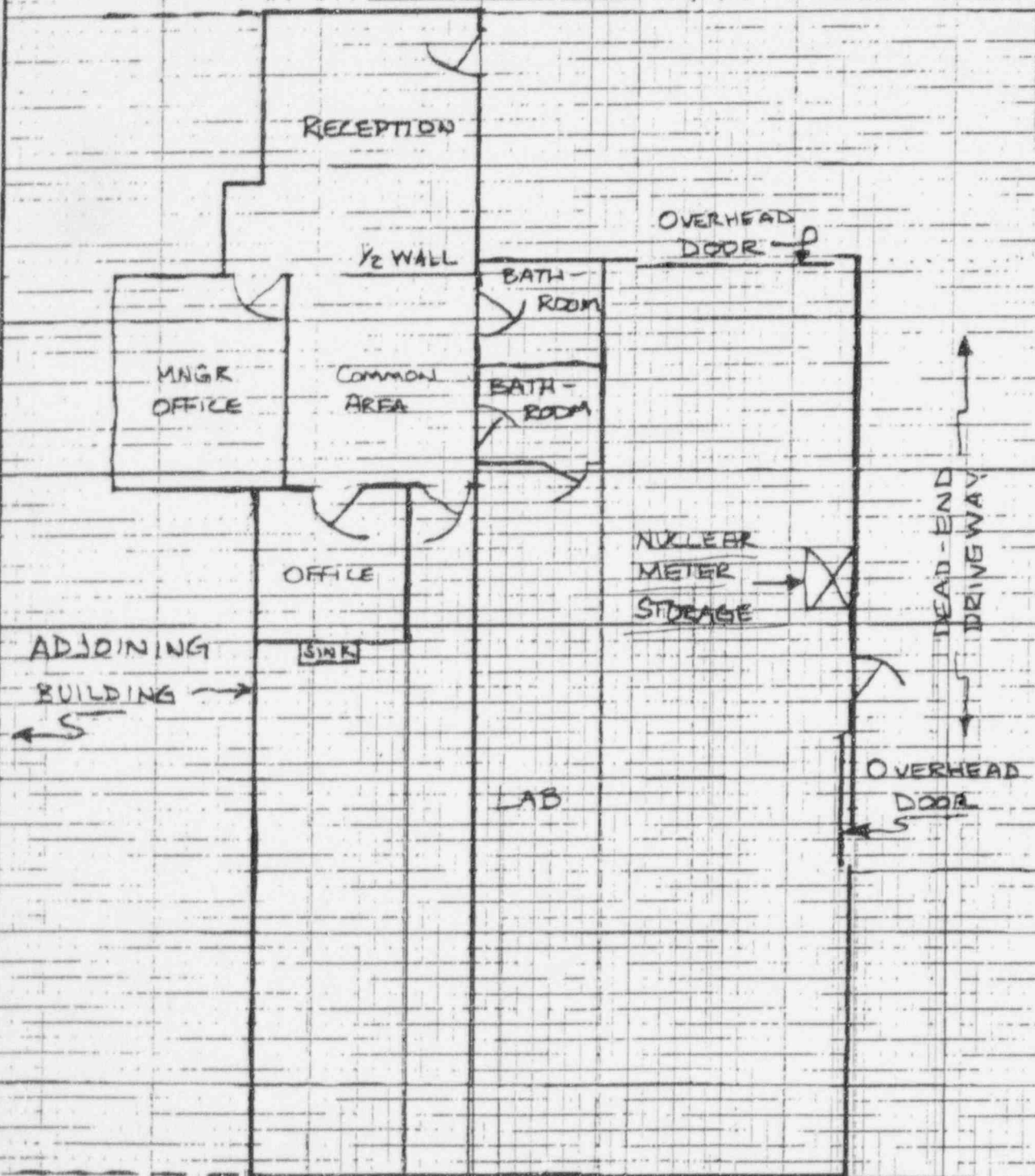
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**Terracon**PROJECT: APPROXIMATE FACILITY LAYOUTPage 1 of 1

JOB NO. \_\_\_\_\_

Date 3-11-97Comp. By ELCHECKED BY: EL

Terracon Consultants, Inc.  
2306 INDUSTRIAL DRIVE  
COLUMBIA, MO 65202  
573-447-1100



1" = 10'  
APPROXIMATE

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

BRAD SHAY

of

SOUTHWESTERN LABORATORIES

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

## Gauge Operation

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

Bill Richardson  
INSTRUCTOR

2/16/80  
DATE

William F. Troxler  
PRESIDENT



816

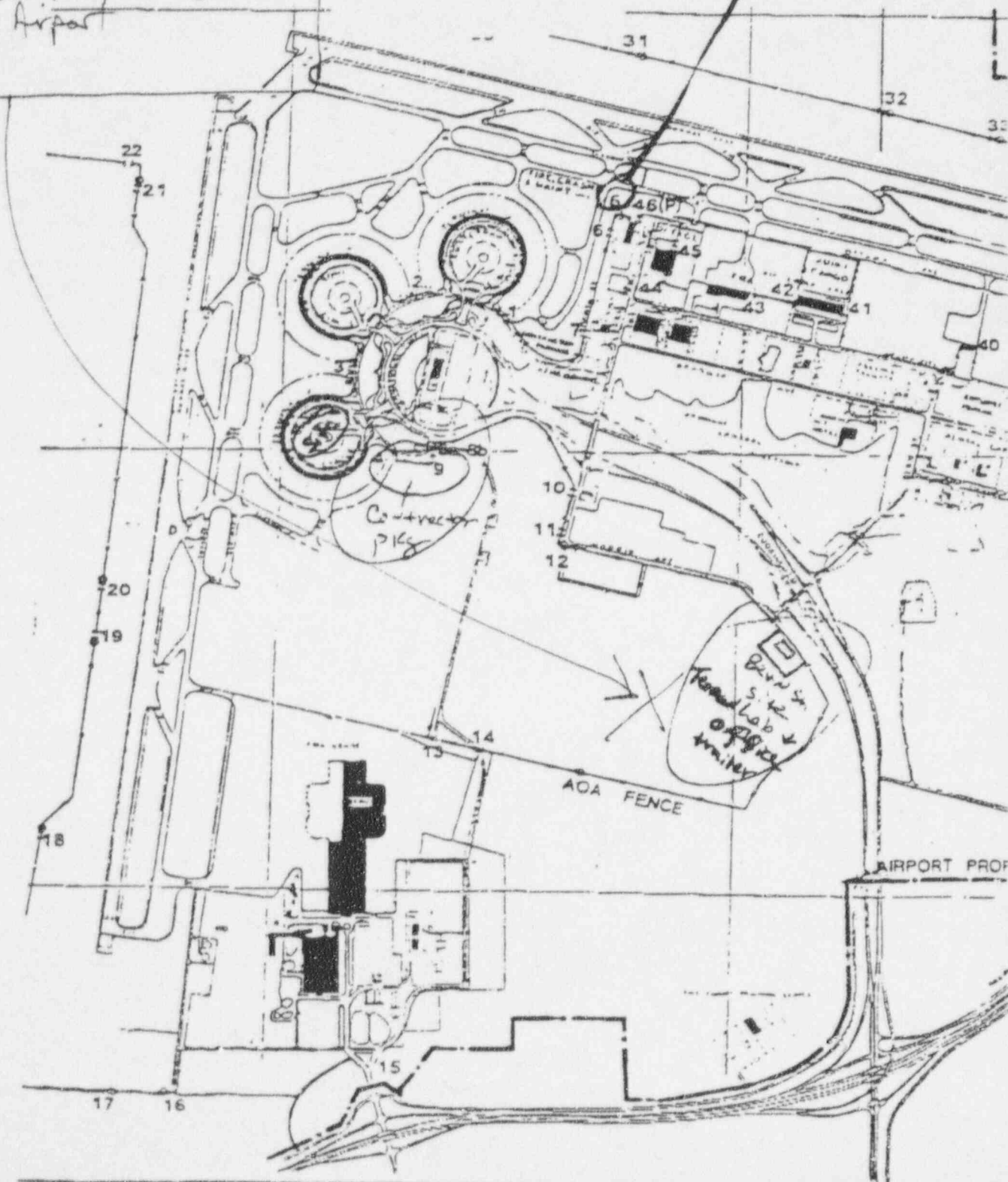
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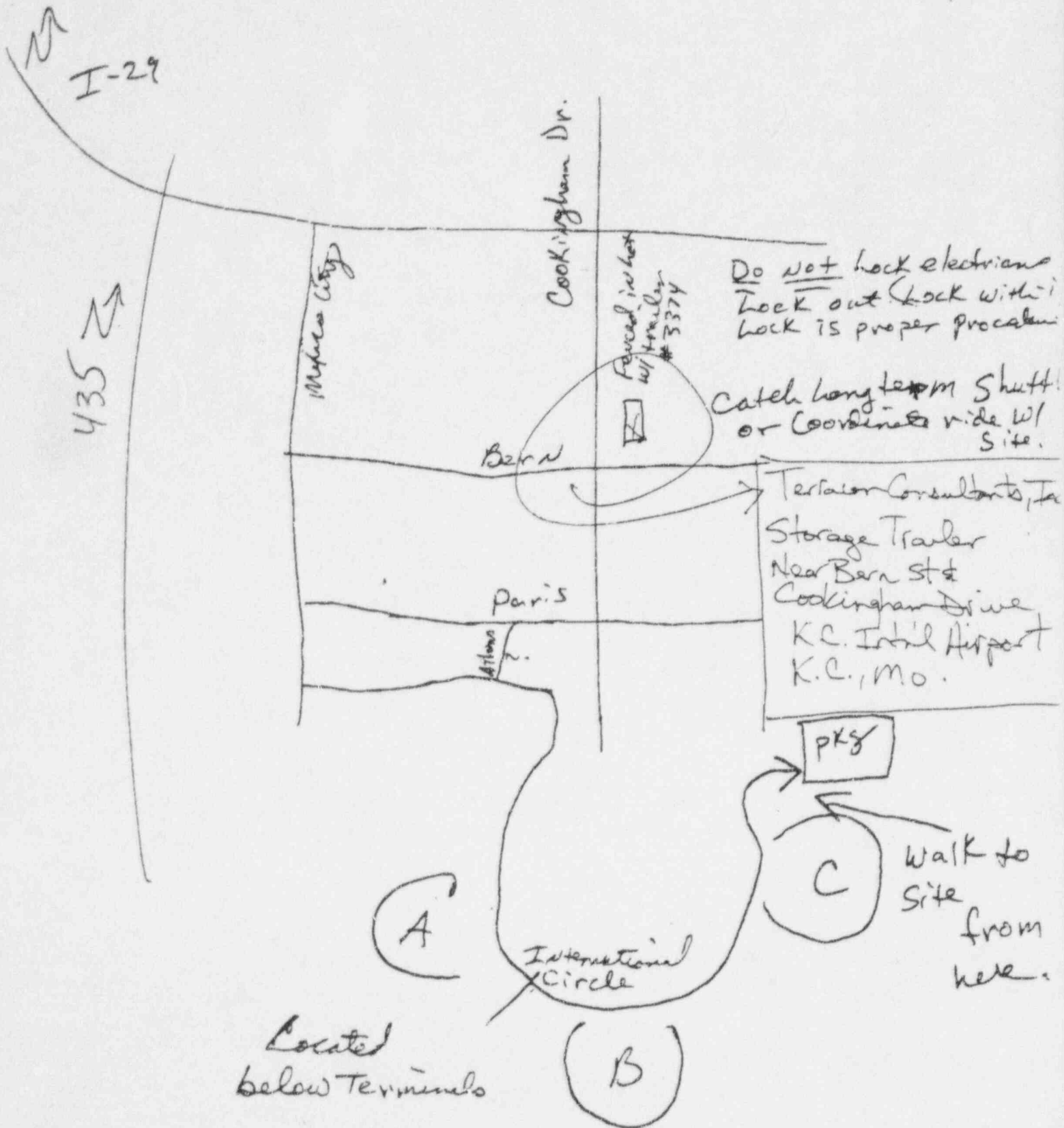
Terracon Consultants, Inc.  
Storage Trailer  
Barn St. @ Cockingham Drive  
KC. Intl. Airport  
KC., MO

Gary Bradley  
2 sheets

GATE 5



3-9-97



L

No 12928

# Certificate Of Completion

*This is to certify that* TERRY F. LIPP *has completed the*  
*basic training course on Radiation Safety and Use of Nuclear Soil Gauges,*  
*held this* 10TH *day of* DECEMBER 19 88 *, held at* TERRACON CONSULTANTS  
*City of* LENEXA *State of* KANSAS *by CPN Corporation.*



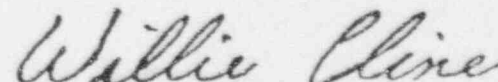
INSTRUCTOR

COLIN FLETCHER



**CPN**®  
CORPORATION

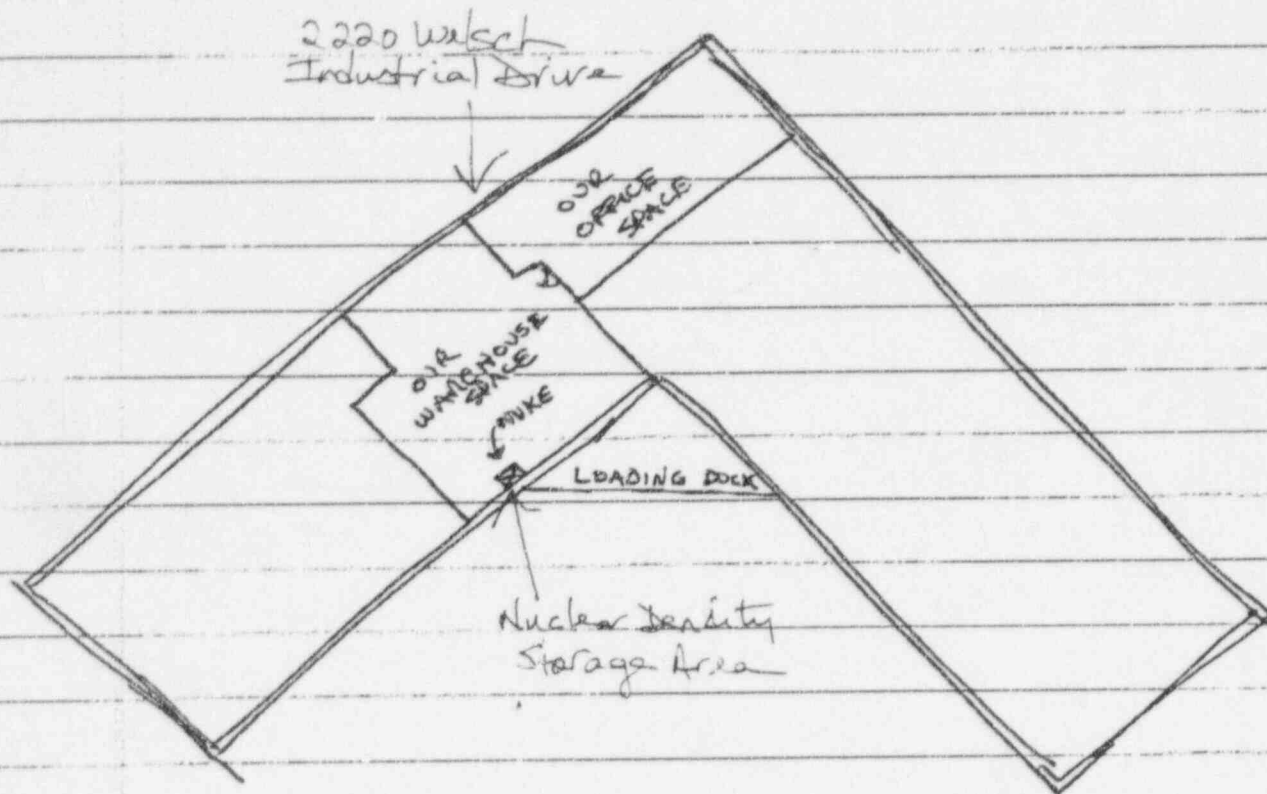
2830 Howe Road  
Martinez, California CA 94553



RADIATION SAFETY OFFICER

WILLIE CLINE

## PAGE AVENUE



Terracon Consultants, Inc.  
2220 Welsch Industrial Drive  
St. Louis, Mo. 63146  
Tel: (816) 692-8811



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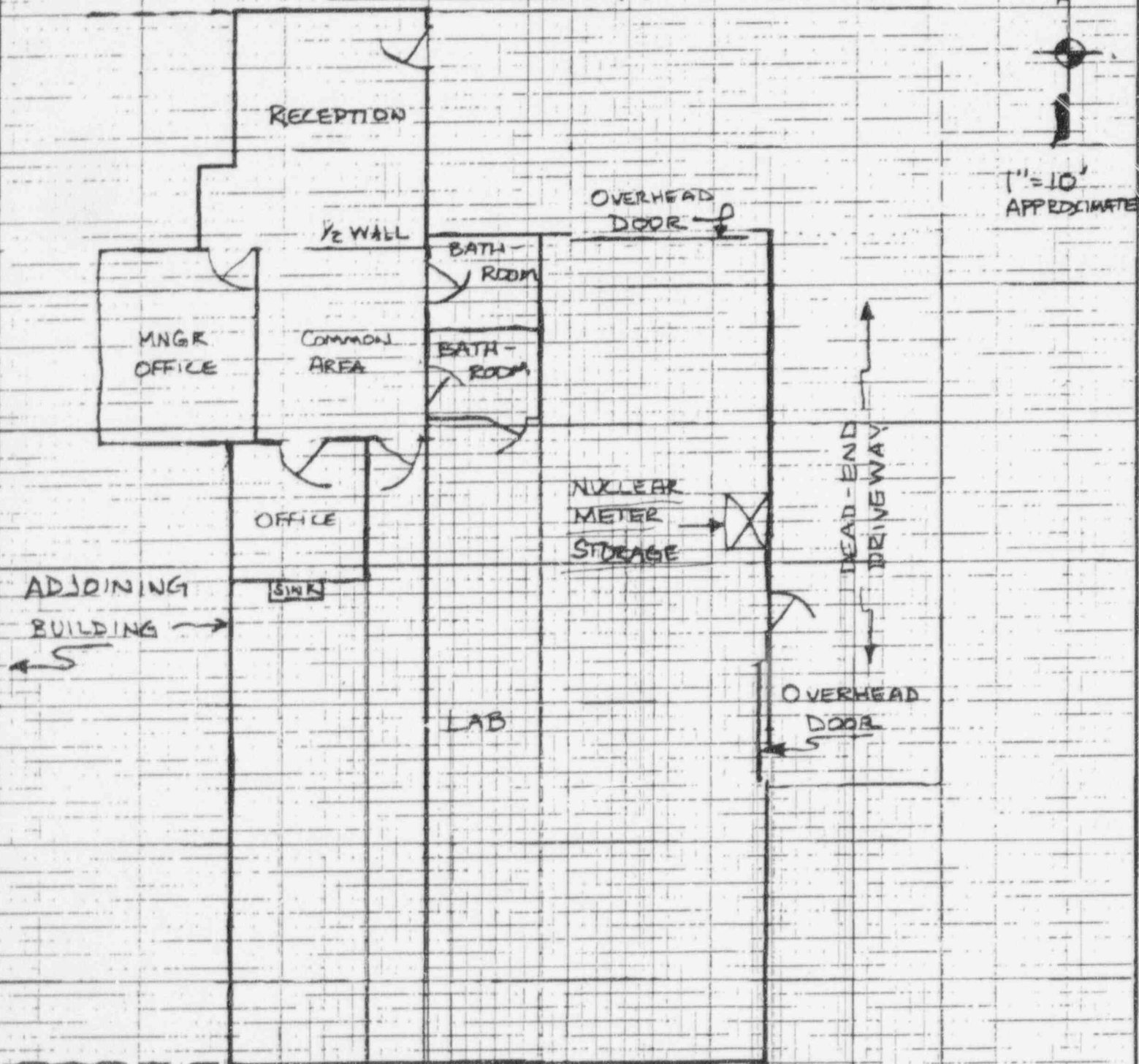


**Terracon**PROJECT: APPROXIMATE FACILITY LAYOUTPage 1 of 1

JOB NO. \_\_\_\_\_

Date 3-11-97Comp. By ELCHECKED BY: EL

Terracon Consultants, Inc.  
2306 INDUSTRIAL DRIVE  
COLUMBIA, MO 65202  
573-447-1100



# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

BRAD SHAY

of

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7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

## Gauge Operation

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

Bill Lickerson  
INSTRUCTOR

2/16/80  
DATE

William F. Troxler  
PRESIDENT

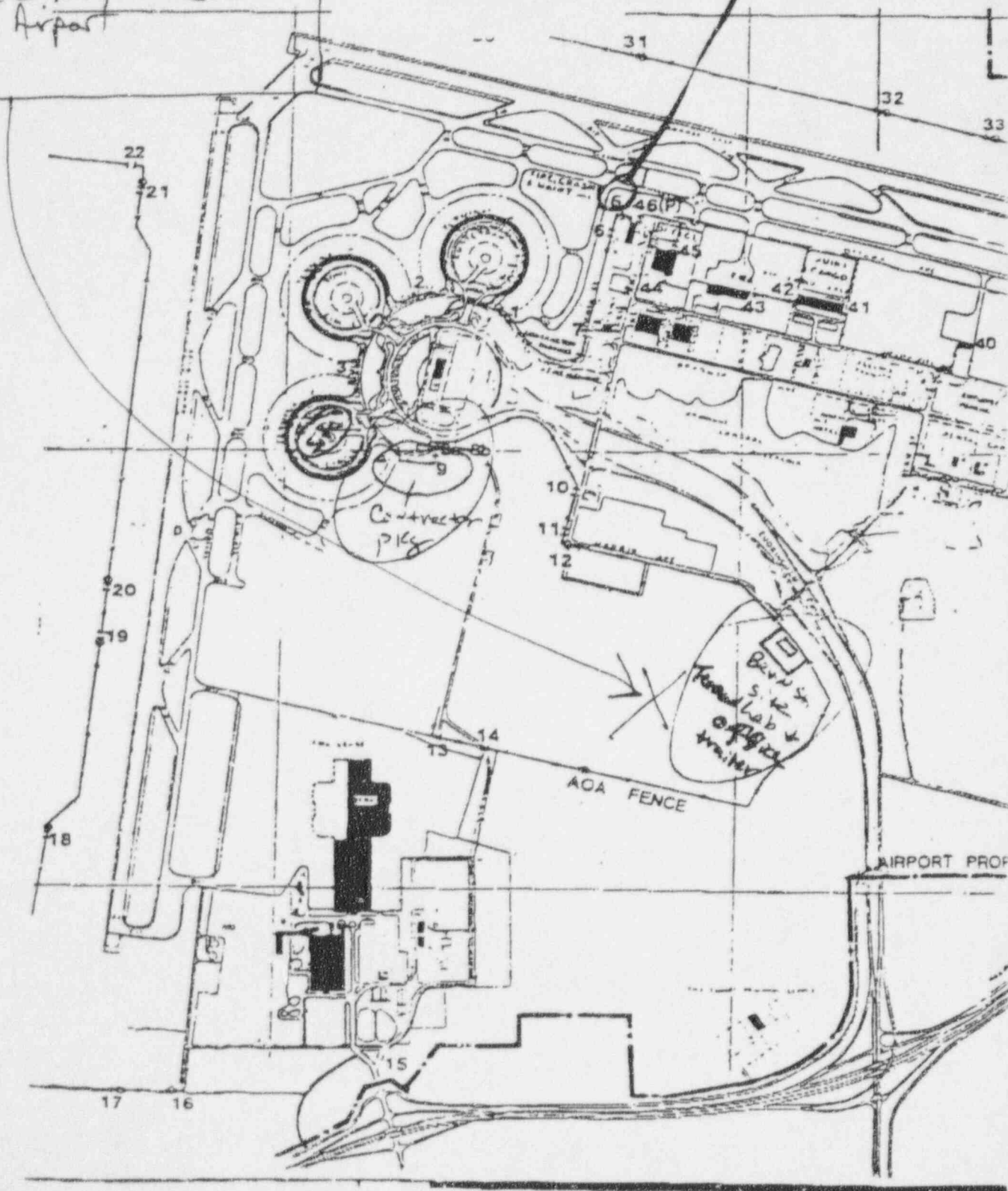
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3-9-97

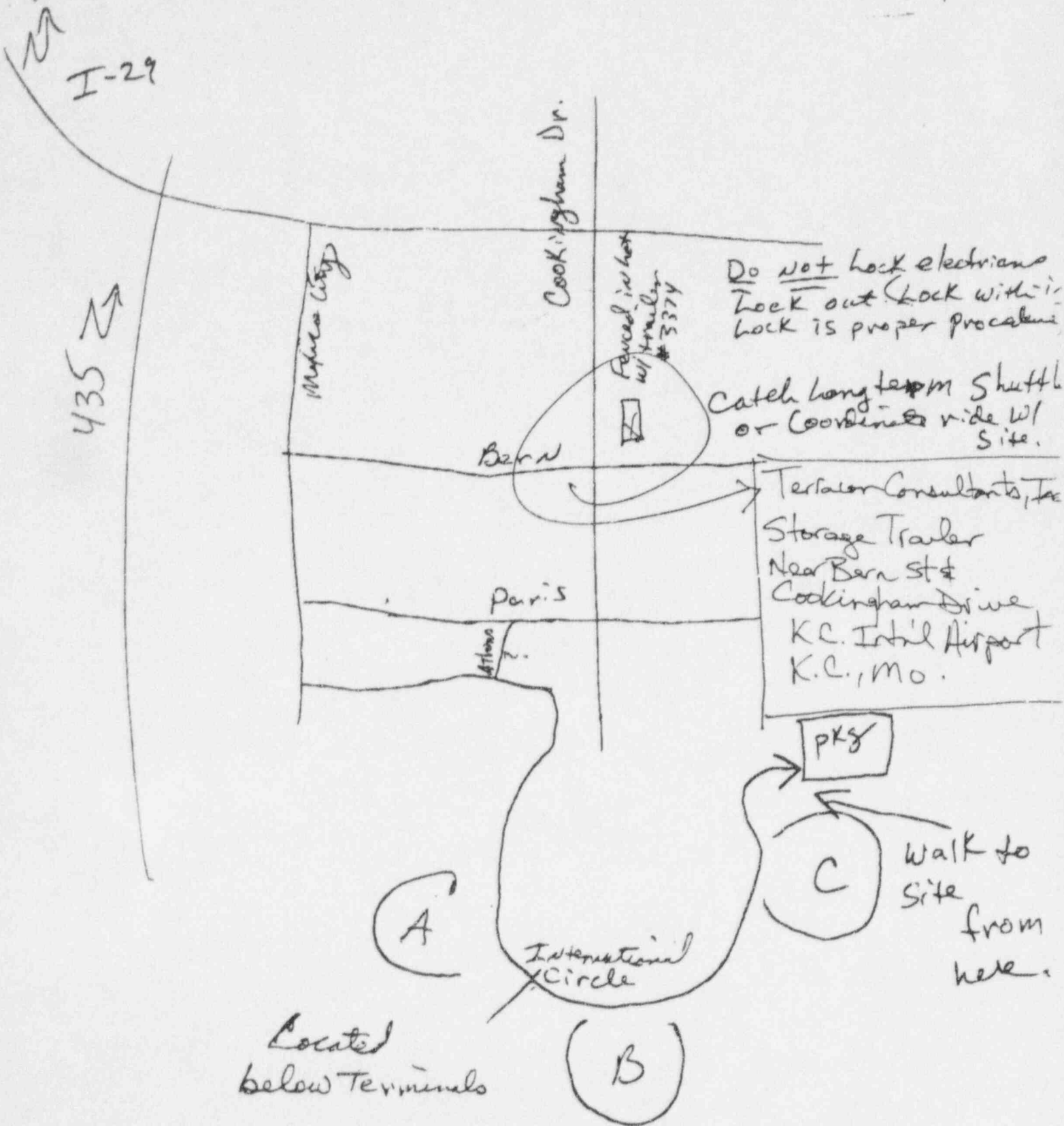
Terracon Consultants, Inc.  
Storage Trailer  
Barn St. @ Cockingham Drive  
KC. Intl. Airport  
KC., MO

Gary Bradley  
2 sheets  
I

GATES



3-9-97



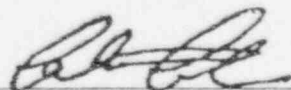
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No 12928

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*held this* 10TH *day of* DECEMBER 19 88 *, held at* TERRACON CONSULTANTS  
*City of* LENEXA *State of* KANSAS *by* CPN Corporation.



INSTRUCTOR

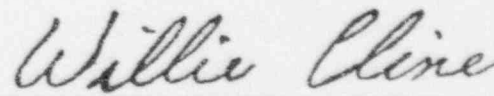
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