

**OFFICIAL RECORD COPY** MATERIALS LICENSE

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

Licensee	
1. Roberts Construction Company	3. License Number 16-24818-03
2. P.O. Box 610 Louisa, Kentucky 41230	4. Expiration Date May 31, 2007
	5. Docket or Reference No. 030-34058 (030-31981)

6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Cesium 137	A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible portable gauging device as specified in Item 9 of this license	A. No single source to exceed 407 megabecquerels (11 millicuries)
B. Americium 241	B. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible portable gauging device as specified in Item 9 of this license	B. No single source to exceed 1.85 gigabecquerels (50 millicuries)

## 9. Authorized Use

- A. and B. To be used, for measurement purposes, in portable Troxler gauging device(s) that have been registered with NRC under 10 CFR 32.210 or with an Agreement State, and have been distributed in accordance with an NRC or Agreement State Specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess, and use the devices.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

16-24818-03

Docket or Reference Number 030-34058 (030-31981)

## CONDITIONS

10. Licensed materials may be stored at the licensee's facilities located at 5803 Big Sandy River Road, Prichard, West Virginia and may be used at temporary job locations 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, David Roberts or individuals who have successfully completed the manufacturer's training program for gauge users, have received copies of, and training in, the licensee's operating and emergency procedures, and have been designated by the Radiation Safety Officer.
- B. The Radiation Safety Officer for this license is David Roberts.
12. 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 in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State.
- 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 tested if 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 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.
- 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, ATTN: Chief, Licensing/Inspection Branch, 61 Forsyth Street, S.W., Suite 23T85, Atlanta, Georgia 30303-3415. 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 Troxler Laboratories. 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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number 16-24818-03

Docket or Reference Number 030-34058 (030-31981)

(continued)

**CONDITIONS**

13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
15. Each portable 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.
16. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
17. Any cleaning, maintenance, or repair of the gauges that requires removal of the source rod shall be performed only by the manufacturer or other persons specifically licensed by the Commission or an Agreement State to perform such services.
18. 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."
19. The licensee shall not use sealed sources or probes containing sealed sources at depths exceeding 3 feet below the surface.
20. In addition to the possession limits in Item 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.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

16-24818-03

Docket or Reference Number 030-34058 (030-31981)

(continued)

CONDITIONS

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 January 29, 1996

B. Letter dated November 6, 1996

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

HECTOR BERMUDEZ

Date **MAY 16 1997**

By *Hector Bermudez*  
Region II, Division of Nuclear Materials Safety  
61 Forsyth Street, S.W. Suite 23185  
Atlanta, Georgia 30303-3415

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303

INFORMATION FOR NRC MATERIAL LICENSEES

Please find enclosed: ☒ Your NRC material license  
☐ Amendment to your NRC material license  
☐ Amendment renewing your NRC material license  
☐ Amendment terminating your NRC material license  
☐ Notice for Radiographer Quality Assurance Approval Program

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify this office (ATTN: Ms. Diane Heim at (404) 562-4723) 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 19, "Notice, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Not possess and use materials authorized in Items 6, 7, and 8, on the license until:
  - a. you have constructed the facilities and obtained the equipment described in the license application and supporting documentation; and
  - b. you have notified the U. S. Nuclear Regulatory Commission, Region II, ATTN: Materials Licensing/Inspection Branch, in writing, that activities authorized by the license will be initiated.
  - c. you have submitted and certified implementation of a Quality Management Program (10 CFR 35.32) for radiotherapy, or for administering >30 uCi of I-125 or I-131.
3. Notify NRC, in writing, within 30 days:
  - a. when an authorized user, Radiation Safety Officer, or Teletherapy Physicist permanently discontinues performance of duties under the license or has a name change; or
  - b. when the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
4. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
  - a. when you decide to terminate all activities involving materials authorized under the license; or
  - b. if you decide not to complete the facility, acquire equipment, or possess and use authorized material.



5. Request and obtain a license amendment before you:
  - a. receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this part.
  - b. permit anyone, not authorized under 10 CFR 35, Subpart J, to work as an authorized user under a license for medical use of byproduct material.
  - c. permit anyone, not authorized under 10 CFR 35, Subpart J, to work as a Radiation Safety Officer, Teletherapy Physicist, or Nuclear Pharmacist, under a license for medical use of byproduct material.
  - d. order byproduct material in excess of the amount, or a different radionuclide or form, other than authorized on the license;
  - e. add or change the areas of use or address (or addresses) of use identified in the license application or on the license; or
  - f. change ownership of your organization.
6. 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. Transfer of licensed materials must be consistent with 10 CFR 30.41, 40.51 or 70.42, as applicable. 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 Procedures for NRC Enforcement Actions," NUREG-1600, (7/95). Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken against those who do not achieve the necessary attention to detail and standard of compliance expected of licensees.

Thank you for your cooperation.

Enclosures:

1. NRC License
2. Category Marked Below for:
  - ☐ New licenses: NUREG-1600 (7/95); 19; 20; 30; 40 or 70, as appropriate; 71; 170; NRC Form 3; Agreement State list; and NRC Form 313.
  - ☐ New radiography licenses: Parts 34; 150.
  - ☐ New medical and teletherapy licenses: Part 35.
  - ☐ Amendments and renewals: NRC Form 313.

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**ROBERTS CONSTRUCTION CO.**

Box 610

LOUISA, KENTUCKY 41230

Phone (304) 648-7131

Nov 6, 1996

To Joe S. M. DIAZ VELAZ

Enclosed are our responses to  
your letter dated April 3, 1996

David H. R.

1. No - Will NOT GO DEEPER THAN 3 FEET
2. Enclosed
3. Conform to Item 7.3 of SRPPG
4. Will RECEIVE TRAILER TRAINING BEFORE Use - Will KEEP RECORDS 3 YEARS AFTER TERMINATION OR EMPLOYMENT - Will GIVE ANNUAL TRAINING AS DESCRIBED IN YOUR LETTER. & Will MAINTAIN RECORDS FOR 3 YEARS.
5. FACILITY BUILT ON U.S. 52 - NO RESIDENTIAL AREA - GAGE IN LOCKED BUILDING SECURED BY LOCKED FENCE.
6. ~~Item 9.7 SRPPG~~ AS DESCRIBED IN YOUR LETTER
7. SECURED IN USERS VEHICLE AWAY FROM GENERAL PUBLIC.
8. LANDAUER
9. DO NOT POSSESS INSTRUMENT - Will CALL TROOPER IN EMERGENCY. IN EMERGENCY WILL REFER TO CLOSEST INSTRUMENT



10. TROXLER 3880 CEAH TEST KIT,  
WILL FOLLOW ENCLOSED INSTRUCTIONS,
11. WILL INVENTORY EVERY SIX MONTHS  
& WILL KEEP RECORDS 3 YEARS.
12. WILL KEEP UTILIZATION LOG AS  
DESCRIBED IN YOUR LETTER
13. NO MAINTENANCE BY USER - WILL  
SEND BACK TO TROXLER,
14. WILL IMPLEMENT OPERATION & EMERGENCY  
PROCEDURES - WILL PROVIDE TO EACH  
USER - AVAILABLE AT EACH JOB SITE
15. WILL PERFORM ~~ANNUAL~~ ANNUAL AUDIT  
AS REQUIRED BY 10 CFR 20.110(K) &  
WILL DOCUMENT
16. WILL BE DONE BY RSO
17. WILL MAINTAIN LIMITS BELOW 10 CFR  
30.35(D).
18. WILL MAINTAIN RECORDS AS REQUIRED BY  
10 CFR 30.35(g).

DO NOT REACH OCCUPATIONAL LIMITS  
DESCRIBED IN 10CFR 20.1502 BASED  
ON REVIEW OF LANDAUER RECORDS  
BACK TO 1981, THEREFORE NO DOSIMETRY  
REQUIRED

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

DAVID ROBERTS

of

ROBERTS CONSTRUCTION CO.

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          |                      |

Harvey D. Sussberg  
INSTRUCTOR

4/2-3/80

DATE

WILLIAM F. TROXLER  
PRESIDENT

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

TIM ROBERTS

of

ROBERTS CONST. CO.

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.
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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

Harvey D. Dewberry  
INSTRUCTOR

4/2-3/80

DATE

WILLIAM F. TROXLER

PRESIDENT

OFFICIAL RECORD COPY

July 24, 1996

Roberts Construction Company  
Attn: David H. Roberts  
P.O. Box 610  
Louisa, Kentucky 41230

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

Dear Mr. Roberts:

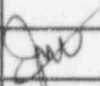
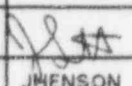
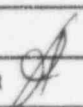
On January 1996, we received your APPLICATION FOR MATERIAL LICENSE, NRC FORM 313. During our review of your application, several deficiencies were identified and we requested additional information in a letter dated April 3, 1996. Although we have contacted you on multiple occasions regarding our April letter, no responses have been received by this office. If you wish to pursue your application, please either contact me by phone or provide your reply by August 15, 1996. Be aware that if we do not receive additional information from you, we will pursue denial of your application pursuant to 10 CFR 2.108. If you plan to respond, please refer to Mail Control No. 256914 and provide two copies with your reply.

If you have questions about this letter, please call me at (Voice: (404) 331-7438). We appreciate your cooperation in this matter.

Sincerely,

/s/

José M. Díaz Vélez  
Materials License Reviewer  
Division of Nuclear Materials Safety

OFFICIAL RECORD COPY		C:\TEMP\256914.JM1	
SEND TO PUBLIC DOCUMENT ROOM? <input checked="" type="radio"/> YES <input type="radio"/> NO			
OFFICE	RII:DNMS	RII:DNMS	RII:DNMS
SIGNATURE			
NAME	JDIAZ	JHENSEN	JPOTTER
DATE	7/24/96	7/24/96	7/24/96
WANT A COPY?	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input type="radio"/> YES <input type="radio"/> NO



April 3, 1996

Roberts Construction Company  
Attn: David H. Roberts  
P.O. Box 610  
Louisa, Kentucky 41230

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ABOUT A MATERIALS LICENSE  
APPLICATION (REFERENCE: 256914; 030-34058)

Dear Mr. Roberts:

I have reviewed your license application dated January 29, 1996, for the use of portable moisture and density gauges. Because of recent regulatory changes, your Application for Material License (NRC Form 313) does not conform to current NRC licensing policies. Accordingly, please refer to the enclosed 10 CFR Parts 19 and 20, and the Standard Review Plan For Applications For Portable Gauging Devices (SRPPG) and provide the following additional information and/or clarification:

1. Specify whether the sealed source will be lowered into the ground more than the 1-3 feet common for most surface measurements. If you plan to make measurement at depths exceeding 3 feet, you will need appropriate provisions in your operating and emergency procedures (See Item 10.7 of the enclosed SRPPG) to reduce the probability of the source becoming lodged in the hole and to recover a "stuck" source, respectively (see Item 6 of the enclosed SRPPG).
2. Please include a copy of the training certificates for the RSO and any other proposed user.
3. Your list of RSO duties and responsibilities did not include some of the items included in Appendix C of the enclosed SRPPG. Please update your list to include such items and forward a copy to us, or you may state, "The RSO's duties and responsibilities will be those listed in Appendix C of Policy Guidance Directive PG 2-07 (Rev. 0), dated September 1994" (See Item 7.3 of the enclosed SRPPG).
4. Indicate whether individuals appointed as users will receive initial training in a portable gauge manufacturer's course or in an alternative training program for gauge users, and:
  - a. If you elect to require the Portable Gauge Manufacturer's Course, please include:
    - i. A commitment that, before an individual is permitted to use a gauge, the individual (a) will have successfully completed a gauge manufacturer's course that meets the criteria in Part I of Appendix D of Policy guidance Directive PG 2-07 (Rev. 0), dated September 1994, and the course instructor's

qualifications meet the criteria in Part II of Appendix D of Policy guidance Directive PG 2-07 (Rev. 0), dated September 1994, (b) will have received copies of, and been trained in, your operating and emergency procedures, and (c) will have been designated as an authorized user by the RSO.

- ii. A commitment that for each individual trained after this license is approved, you will maintain a record for three years after terminating employment, demonstrating that the individual was trained as described item 4.a.i of this letter.
  - iii. A commitment that refresher training will be provided, by the RSO (or an instructor whose qualifications meet the criteria in Part II of Appendix D of Policy guidance Directive PG 2-07 (Rev. 0), dated September 1994), to all gauge users, at intervals not to exceed one year, to include participating in "dry runs" of your emergency procedures and reviewing (a) operating and emergency procedures, (b) DOT requirements, (c) changes in applicable regulations or license conditions and (d) deficiencies identified during the performance of annual audits of the radiation safety program, (e) review of applicable NRC Information Notices, Bulletins, and articles in NRC's Newsletters. Please indicate the duration of such refresher training.
  - iv. A commitment that you will maintain a record of the refresher training for three years, and that the record will include: (a) date of training, (b) identification of the instructor, (c) list of attendees, and (d) topics covered.
- b. If you elect to require an Alternative Course, please include:
- i. A description of the alternative course, including it's duration, the topics covered, the amount devoted to each topic.
  - ii. The name and qualifications of the instructor.
  - iii. A description of how the trainees' competency is assured, including a description of test(s) to be administered, copies of sample test with correct answers shown, and identification of the minimum passing grade.
  - iv. A commitment that, before an individual is permitted to use the gauge, the individual (a) will have successfully completed the alternative course described in response to Items I through iii above, (b) will have received copies of, and was trained in, your operating and emergency procedures; and (c) will have been designated as an authorized user by the RSO.

- v. A commitment that for each individual trained after this license is approved, you will maintain a record for three years after terminating employment, demonstrating that the individual (a) successfully completed the alternative course described in response to Items i through iii above, (b) that the course content and instructor qualifications were as described in response to Items i through iii above, (c) that the individual received copies of, and was trained in, your operating and emergency procedures, (d) and that the individual was designated as an authorized user by the RSO.
- vi. A commitment that refresher training will be provided, by the RSO (or an instructor whose qualifications meet the criteria in Part II of Appendix D of Policy guidance Directive PG 2-07 (Rev. 0), dated September 1994), to all gauge users, at intervals not to exceed one year, to include participating in "dry runs" of your emergency procedures and reviewing (a) operating and emergency procedures, (b) DOT requirements, (c) changes in applicable regulations or license conditions and (d) deficiencies identified during the performance of annual audits of the radiation safety program, (e) review of applicable NRC Information Notices, Bulletins, and articles in NRC's Newsletters. Please indicate the duration of such refresher training.
- vii. A commitment that you will maintain a record of the refresher training for three years, and that the record will include: (a) date of training, (b) identification of the instructor, (c) list of attendees, and (d) topics covered.

(See Item 8 of the enclosed SRPPG).

- 5. For your proposed permanent facility, located at 5801 Big Sandy River Road, Prichard, WV, (1) specify whether the facility currently exists, or is under construction, or is planned for future construction. (2) Describe the general location of this facility (e.g. located in an industrial park, an office complex, a private residence) and its current use. If the proposed permanent facility is a private residence, (3) confirm that the use of licensed material does not conflict with local codes or zoning laws, and commit that restricted areas will not include residential quarters, and explain how radiation levels in unrestricted areas will be controlled and monitored to comply with 10 CFR 20.1301. (4) Please provide a diagram of the proposed permanent facility to include the building, the proposed restricted area(s) (including your storage area), and adjacent areas, including above and below restricted areas.
- 6. Describe how gauges will be secured while located in transport vehicles. (e.g. gauges will be locked in the trunk of a car, hidden from view while in a locked van, or secured by a lock and chain while in an open bed truck) (See Item 9 of the enclosed SRPPG).

7. Describe how gauges will be secured while in storage at temporary jobsites, including any steps you will take to ensure that it does not present an "attractive nuisance," and that members of the general public are not exposed to radiation in excess of 10 CFR 20.1301 limits (See Item 9 of the enclosed SRPPG).
8. The name of the supplier of the personnel monitoring equipment you will use (See Item 10.1 of the enclosed SRPPG).
9. A description of radiation detection instruments you will have available at each jobsite for conducting surveying and monitoring pursuant to 10 CFR 20.1501 or describe your alternative method for determining potential radiation hazards for both normal and accident conditions (See Item 10.2 of the enclosed SRPPG).
10. A commitment that leak tests will be performed at intervals not to exceed 6 months and provide the name, address, and license number of the kit supplier and the model number of the kit you will use, and your commitment to follow the suppliers instructions for collecting the leak test sample, or alternatively you may follow the guidance on the enclosed SRPPG to perform the required leak test with any of the other 2 described therein (See Item 10.3 of the enclosed SRPPG).
11. A commitment that you will maintain inventory records for at least 3 years from the date of the inventory, and that your record will include: the radionuclide and amount (in units of bequerels or curies) of byproduct material in each source; the manufacturer's name; model number and serial number (if appropriate) of each device containing byproduct material; the location of each sealed source and device; and the date of the inventory. (See Item 10.4 of the enclosed SRPPG).
12. A commitment that you will maintain a running account of the utilization of each device, including: the date removed from your designated storage location, the name of the authorized person removing the device, and the address and physical location where the device will be used and stored until returned to the primary storage location (See Appendix H of the enclosed SRPPG).
13. Item B.8.e of your Radiation Protection Program appears to indicate that under some circumstances you may instruct operators to perform maintenance on gauges, which includes source removal. Please provide a commitment that no maintenance will be performed that involves the removing of the source or placing it in an unshielded position, or alternatively, provide the information requested in Appendix F to the enclosed SRPPG. (See Item 10.5 of SRPPG).
14. (1) A commitment to have and implement your operating and emergency procedures, as described in your correspondence with NRC. (2) A revised description of the Standard Operating and Emergency Procedures that you will provide to persons responsible for the receipt, handling, storage and transportation and use of portable moisture density gauges

containing licensed material. These procedures should instruct personnel in each of the topics discussed in Appendix H of the enclosed standard review plan, but can be more detailed to accommodate your particular situation. (3) A commitment that you will provide a copy of your operating and emergency procedures to all users of gauging devices before they begin using the gauges. (4) A commitment to have a copy of your operating and emergency procedures at each jobsite. (See Item 10.7 of the enclosed SRPPG).

15. A statement signed by you describing your commitment to a radiation safety program incorporating administrative and/or engineering controls to maintain radiation doses to your workers and individual members of the public As Low As Readily Achievable (ALARA) pursuant to 10 CFR 20.1101. Include a commitment to (1) review the documented results of the audit promptly after the audit completion; (2) to take prompt action to correct deficiencies identified during audits; and (3) to inform all personnel of the deficiencies and the actions management expects its personnel to take to avoid similar deficiencies (See enclosed 10 CFR 20 and Item 10.8 and Appendix I, of the enclosed Standard Review Plan for Portable Gauging Devices (SRPPG)).
16. (1) The name and the training and experience in radiation safety of the person that you will appoint to perform the annual audit required by 10 CFR 20.1101(c). (2) A description of the scope and extent of your audits pursuant to 10 CFR 20.1101, however, in lieu of describing the scope and extent of the audits, you may state, "We will conduct audits as described in appendix I of Policy and Guidance Directive PG 2-07 (Rev. 0), dated September 1994 (See Item 10.8 and Appendix I, of the enclosed Standard Review Plan for Portable Gauging Devices (SRPPG)).
17. A commitment that you will restrict your possession of material to quantities below the minimum level specified in 10 CFR 30.35(d) for establishing financial assurance for decommissioning (See Item 10.9 of the enclosed SRPPG).
18. A commitment that you will maintain all the necessary records to comply with 10 CFR 30.35(g). Please specify where the records will be maintained (See Item 10.9 of the enclosed SRPPG).

If you wish to pursue your application, please either contact me by phone or provide your reply within 30 days of receipt of this letter. If additional time to respond to this letter is needed, please request it in writing and state the reason for requesting the extension. When responding, please refer to Mail Control No.256914 and provide two copies of your reply.



If you have questions about this letter, please call me at 404/331-7438  
(FAX: 404-331-7437).

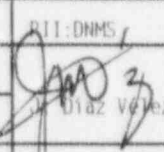


Sincerely,



JOSÉ M. DÍAZ VÉLEZ  
Materials License Reviewer  
Division of Nuclear Materials Safety

Enclosures:

1. 10 CFR 19
2. SRP Portable Gauges
3. 10 CFR 20

OFFICIAL RECORD COPY		DOCUMENT NAME: G:\DRSS\NMIS\256914.JMD	
SEND TO PUBLIC DOCUMENT ROOM?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
OFFICE	R11:DNMS	R11:DNMS	R11:DNMS
SIGNATURE			
NAME	José M. Díaz Vélez	J. Jensen	J. Potter
DATE	04 / 3 / 96	04 / 3 / 96	04 / 3 / 96
COPY?	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	YES <input type="radio"/> NO

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

```
(FOR LFMS USE)
INFORMATION FROM LTS
-----
Program Code: _____
Status Code: 3
Fee Category: 1014 AM 11:18
Exp. Date: 0
Fee Comments: _____
Decom Fin Assur Req'd: _____
```

A. REGION II

Applicant/Licensee: ROBERTS CONSTRUCTION COMPANY  
Received Date: 960201  
Docket No: 3034058  
Control No.: 256914  
License No.:  
Action Type: New License

Amount: 550  
Check No.: 3927

Signed  
Date

1. Fee Category and Amount:

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License ☒

Signed  
Date

Log. Feb 2 II  
Remitter  
Check No. 1531  
Amount \$1530  
Fee Category 3P  
Type of Fee Appel  
Date Check Rec'd.  
Date Completed 2/15/96  
By: Rem

## APPLICATION FOR MATERIAL LICENSE

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

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

## APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

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

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## IF YOU ARE LOCATED IN:

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

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

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

NUCLEAR MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
101 MARIETTA STREET, NW, SUITE 2900  
ATLANTA, GA 30323-0199

## IF YOU ARE LOCATED IN:

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

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

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

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

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

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

☒  
☐  
☐

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

Roberts Construction Company  
P. O. Box 610  
Louisia, Kentucky 41230

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

5803 Big Sandy River Road, Prichard, WV 25555 and at  
temporary jobsites anywhere NCR maintains jurisdiction

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

David H. Roberts

TELEPHONE NUMBER  
(304) 648-7131

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 3 P

AMOUNT  
ENCLOSED \$ 530.00

## 13. CERTIFICATION: (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT

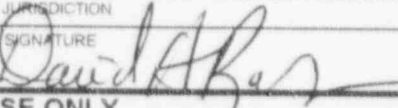
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT 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

David H. Roberts Pres, Mgr.

SIGNATURE



DATE

1-29-96

## FOR NRC USE ONLY

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

ATTN LIANA HEIM

NRC FORM 313

(10-84)  
10 CFR 30, 32, 33  
34, 35, 36, 39 and 40

U. S. NUCLEAR REGULATORY COMMISSION

## APPLICATION FOR MATERIAL LICENSE

APPROVED BY OMB NO 3150-0120  
EXPIRES 6-30-96

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 8 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 (7-8 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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WASHINGTON, DC 20555-0001

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LICENSING ASSISTANT SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406 1416

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 III  
101 MARSHALL STREET, NW, SUITE 2000  
ATLANTA, GA 30326-0186

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
801 WARRENVILLE RD.  
LIBLE, IL 60532-4361

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

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

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



NEW LICENSE

AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

Roberts Construction Company  
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temporary jobsites anywhere NCR maintains jurisdiction

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David H. Roberts

TELEPHONE NUMBER  
(304) 648-7131

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 FEE (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3 P

AMOUNT  
ENCLOSED \$ 530.00

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, 38 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 26, 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 - TYPE/PRINTED NAME AND TITLE

David H. Roberts Pres, Mgr.

SIGNATURE

David H. Roberts

DATE

1-29-96

## FOR NRC USE ONLY

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

256914



ITEM 5

Element and Mass Number	Chemical and/or Physical Form	Maximum Amount in Possession at One Time
Cesium 137 and	Sealed Source	Max 9MCI 10% per source Max 3 sources
Americium 241	Sealed Source	Max 40MCI approx 10% per source. Max 3 sources

ITEM 6

For use in Troxler 3400 Series Moisture - Density gauges. To be used for measuring moisture and density of construction materials.



ITEMS 7 & 8

Name: David H. Roberts

Position: Manager, Radiation Safety Officer

Training: Troxler Electronic Laboratories, Inc.  
Training Course for the use of Nuclear Testing Equipment

Subjects included in the training:

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

Experience

Various dates of prior experience includes the use of Troxler Nuclear gauge 2400 and 3400 series in conducting compaction tests.

Education-Training

B. S in Civil Engineering, University of Kentucky Lexington, Ky.

Kentucky Registered Engineer # 5515

Kentucky Registered Land Surveyor # 2043

West Virginia Registered Professional Engineer # 4812

West Virginia Certified Compaction Technician

West Virginia Certified Portland Cement Concrete Technician

West Virginia Certified Bituminous Concrete Technician

West Virginia Certified Aggregate Technician

ITEMS 7 & 8

Name: Timothy Roberts

Position: Field Compaction Technician and Alternate Radiation  
Safety Officer

Training: Troxler Electronic Laboratories, Inc.  
Training Course for the use of Nuclear Testing Equipment

Subjects included in the training:

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

Experience

Various dates of prior experience includes the use of Troxler Nuclear gauge 2400 and 3400 series in conducting compaction tests.

Education-Training: College of Civil Engineering, University of Kentucky  
Lexington, Ky.

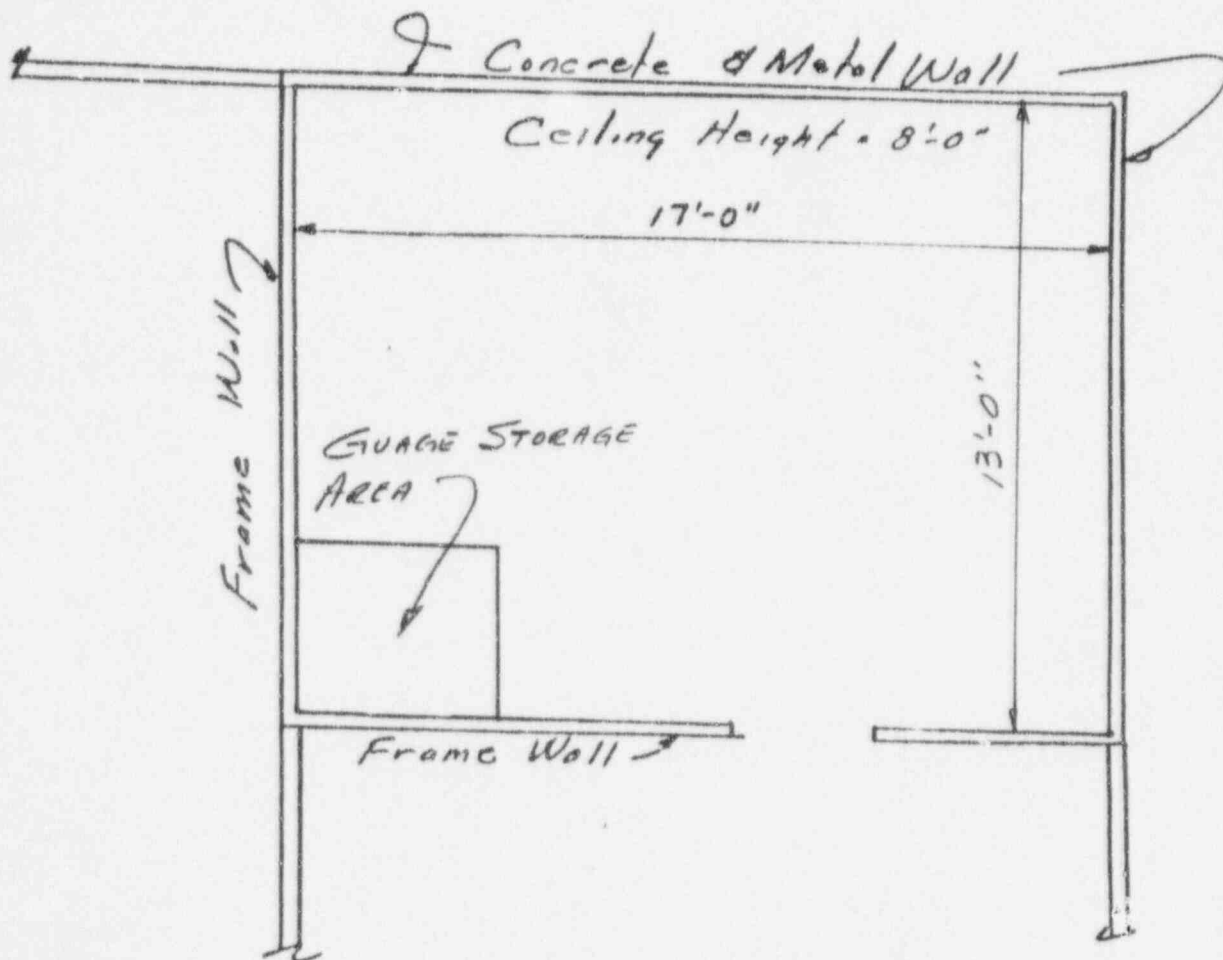
MAIN STORAGE AREA OF NUCLEAR GAUGE

1. Storage area when not used on temporary job sites.
2. Location: Roberts Construction Co.  
5803 Big Sandy River Road  
Prichard, W. Va. 25555
3. Nuclear gauge will be stored in a room designated for storage of equipment and supplies. Radiation sign will be placed on the door. The door shall be locked at all times.
4. Gauge shall not be removed by anyone other than David H. Roberts or a person that is under his supervision.

(Please see attached sketch of Storage Area of Nuclear Gauge)

Item 9

Guage Storage Area Locked



PLAN

## RADIATION SAFETY PROGRAM

Radiation Safety Officer: David H. Roberts

A Duties and Responsibilities:

The named radiation safety officer will report to management on radiation safety matters and coordinate the following:

1. The safe use of the gauges.
2. Assure compliance with the requirements of Title 10 CRF Parts 19, 20, 30, or applicable US DOT regulations.
3. Assure by-product materials possessed under the license are in conformity to materials listed on the license.
4. Assure that use of devices (particularly in the field) is only by persons named as users under the license or persons who have completed acceptable training.
5. Assure all users wear personnel film badges while using gauges.
6. Assure gauges are properly secured against unauthorized removal at all times.
7. To serve as point of contact and give assistance in case of emergency-to insure all proper authorities are notified promptly in case of accidents.
8. Assure that term conditions of license are met such as:
  - a. Periodic leak tests are performed.
  - b. All required records are kept and reviewed periodically for compliance with regulations-
    1. source certificate
    2. Leak test records
    3. Personnel exposure records
    4. Transfer of radioactive materials.
9. Maintain records of any maintenance or repair work conducted on the Nuclear Gauge. Maintenance and repair work shall be conducted by the manufacturer or a trained representative of the manufacturer. Absolutely no one is to perform any maintenance involving dismantling or removal of source holder other than the Troxler Electronic Laboratories.

B. Handling Procedures:

The Troxler Instruments 3400 series were designed with operator safety as a prime consideration; however, as with any piece of potentially hazardous equipment, some general precautions should be observed.

1. Do not operate or attempt to operate the instrument unless you have been authorized to do so.
2. Keep the source position in the "safe" or stored position when not in use.
3. Always wear a film badge when using or transporting the instrument.
4. While exposure dose levels are well within limits for radiation workers, never expose yourself to the bare source without sufficient reason for justification of the additional dose.
5. Keep all unauthorized persons out of the operating area, (at least 15 feet). The general public must not be unnecessarily exposed to radiation.
6. Maintain security of the instrument at all times. Do not at any time leave gauge unattended. The source lock should be in place when not in use and the instrument should be kept in a locked vehicle when transported.



when stored, the area should be locked. Not only is it an expensive piece of equipment but, if stolen, could be abandoned under conditions which could be hazardous.

7. Insure that the gauge has had leak test performed at the intervals required by your Radioactive Materials License. (Troxler Leak-Model 3880).

8. Additional handling procedures:

- (a) Use gauge until Batt. Indicator shows, then charge gauge for 10 to 12 hours.
  - (b) Clean standard block and base plate of gauge daily.
  - (c) Do not operate gauge in rain.
  - (d) Do not operate gauge within 30 feet of another gauge.
  - (e) Do not remove the road out section or attempt to repair gauge unit until you have been instructed to do so.
9. If you have any questions on gauge operations, testing, etc. please contact your Radiological Safety Officer and an answer will be obtained.

C. Security:

1. Security will be under the supervision of David Roberts or authorized personnel under his direction.
2. The source lock shall be in place when not in use.
3. Storage containers shall be physically secured to prevent tampering or removal by unauthorized personnel.
  - (a) All gauges while on temporary job sites will be secured in such a manner as to safeguard against unauthorized access.
  - (b) The instrument shall be kept in a locked vehicle when transported.
  - (c) Upon completion of field work instruments shall be locked in designated storage area of main office.

D. Personnel Monitoring:

1. Film badges shall be worn by authorized personnel while using or transporting gauge.
2. Users of the gauge will wear only the monitoring badge assigned to them.
3. All badge film inserts will be replaced monthly.

E. Records and Reports:

1. A quarterly physical inventory shall be conducted to account for all sealed sources received and possessed under the license.
2. The inventory record shall be maintained at the main office for inspection.
3. Leak tests will be performed for all sealed sources at the interval required by the license.
4. When a sealed source unit is transferred, in the absence of a leak test certificate, the source shall not be put into use until tested.
5. Reports from the film badge service will be maintained for inspection.
6. A record of total received dose shall be made available to the employee upon his termination from the licensee.
7. Reports of maintenance or repair work shall be kept on each nuclear gauge.

## F. Incidents:

1. The licensee will report any theft or loss of licensed material by telephone or telegram to the appropriate agency including the appropriate state agency. Within 30 days after the loss, a written report will be filed giving detailed description of the source, circumstances of the loss statement of disposition possible radiation exposures or hazard actions taken to recover the source and procedures which will be implemented to prevent a recurrence of the loss or theft.
2. The licensee shall report any overexposure of operators which exceeds the limits given in 10 CFR part 20, detailing circumstances of the exposure and possible injury.

## G. Handling and Emergency procedures:

1. No personnel may transport or use the nuclear gauges unless the individual has been approved by the radiological safety officer and the requirements of the procedures are met.
2. Each user will be taught and will be able to correctly and safely use the nuclear gauge.
3. At the termination of each field use, the nuclear gauge will be transferred to its regular storage area.
4. In the event of physical damage to a gauge the following measures shall be taken:
  - (a) A (50) fifty foot radius exclusion area shall be maintained until the extent of source damage (if any) is determined.
  - (b) If a vehicle is involved, it will be stopped and remain stopped until the extent of contamination hazard (if any) is determined.
  - (c) If visual examination of the instrument and source indicates damage to the source, including fracture of the weld, the appropriate authorities and Troxler Electronic Laboratories, Inc. should be notified as stated in section 5.
  - (d) The instrument may be removed from the site, safeguarding at least a 6 foot distance by using a shovel or other long handled instrument and placed in a suitable container such as a metal drum and filled with sand or gravel.
  - (e) Provisions shall be made to have the site surveyed for possible contamination after the instrument is removed.
  - (f) Disposition by the factory (Troxler Laboratories will be arranged after a leak test has been performed to determine the integrity of the source before shipment back to the factory.
5. Immediate telephone notification must be made to the following in the event of accident as stated above or the loss of a sealed source, whether accidental or due to theft.
  - (a) Company Radiological Safety Officer  
 Name: David Roberts  
 Address: P. O. Box 610  
 Louisa, Ky. 41230  
 Telephone: (304) 648-7131
  - (b) NRC Regional Office (if applicable)  
 Address: Washington, D.C.  
 Telephone: 1-202-427-4228

- (c) State Health Department  
Address: Wayne, W. Va.  
Telephone: 304 272-2245
- (d) Local Authorities:  
Fire Dept. 304 648-5246  
Sheriff Wayne Co. 304 272-4400  
State Police Wayne 304 272-5131
- (e) Troxler Electronic Laboratories  
Address: P. O. Box 12057, Cornwallis Road  
Research Triangle Road, North Carolina 27709  
Telephone: 919-549-8661

H. Transport by Private Motor Vehicle

1. The equipment, in its container, will be transported by private motor vehicle only under the "yellow II" label without placarding the vehicle as required by 49 CFR 177.823.
  2. The source rod will be placed in it's locked position within its container. The container itself shall be locked and placed in a section of the vehicle which will also locked. When not in transit the equipment shall be stored in a secured area.
  3. Since the container has a Transport Index 0.1 or greater it may not be stored less than 30 centimeters from passengers per 49 CFR 174.586. It also should not be stored for more than 8 hours at less than 1 meter from undeveloped film.
- I. The licensee shall obtain copies of regulations which apply to his situation and comply with them.

J. DISPOSAL

1. Upon disposition, licensee will return gauge to manufacturer.
2. If sold, licensee shall sell instrument to another licensee as required by regulations.

*David H. Roberts*

David H. Roberts

ITEM 11

WASTE MANAGEMENT

Sources will be returned to the manufacturer.