

MATERIALS LICENSE

Amendment No. 1

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, 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 application dated November 30, 1992	
1. Design and Engineering Services Dept. The Navajo Nation	3. License number	02-23274-01 is amended in its entirety to read as follows:	
2. P.O. Box C Window Rock, AZ 86515	4. Expiration date	January 31, 1998	
	5. Docket or Reference No.	030-20445	
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 (Troxler Dwg. A-102112)	A. Not to exceed 10 millicuries	
B. Americium 241	B. Sealed neutron sources (Troxler Dwg. A-102451)	B. Not to exceed 50 millicuries	
9. Authorized use			
A. and B. For use in Troxler Model 3400 Series Moisture-Density gauges to measure properties of construction materials.			

CONDITIONS

10. Licensed material may be used at the Design and Engineering Services Department, Administration Building Number 1, Window Rock, Arizona, the Water Development and Maintenance Dept. Warehouse at Fort Defiance, Arizona 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.

9302260154 930105
PDR ADOCK 03020445
C PDR

MIL 50

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

02-23274-01

Docket or Reference number

030-20445

Amendment No. 1

CONDITIONS

(continued)

11. Licensed material shall be used by, or under the supervision and in the physical presence of, Gerrald Scott House, Larry Eagleman or individuals who have successfully completed the manufacturer's training program for gauge users and who have been designated by the Radiation Protection Officer, Gerrald Scott House. The licensee shall maintain records of individuals designated as users.
12. Sealed sources containing licensed material shall not be opened.
13.
 - A. The source(s) specified in Item(s) 7.A and B, shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
 - B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
 - C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U. S. Nuclear Regulatory Commission, Region V, Radioactive Materials Safety Branch, 1450 Maria Lane, Walnut Creek, California 94596. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
 - D. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number	02-23274-01
Docket or Reference number	030-20445
Amendment No. 1	

CONDITIONS

(continued)

14. The licensee shall conduct a physical inventory every six (6) months to account for all sources and/or devices received and possessed under the license. Records of the inventories shall be maintained for two (2) years from the date of each inventory.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
16. 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 November 30, 1992
 - B. Telefacsimile received January 4, 1993

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Date JAN 05 1993

By: Beth A. Prange
Beth A. Prange
Sr. Health Physicist (Licensing)
Radioactive Materials Safety Branch
Region V

JAN 05 1993

Docket No. : 030-20445
License No.: 02-23274-01
Control No.: 571727

Design & Engineering Services Dept.
The Navajo Nation
P.O. Box C
Window Rock, AZ 86515

Attention: Gerrald Scott House
Engineering Supervisor

Enclosed is the NRC license renewal which you requested.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify us so that we can provide appropriate corrections and answers.

Any future correspondence relating to your license should specifically reference your license and docket numbers to expedite your inquiry.

Sincerely,

Beth A. Prange
Sr. Health Physicist (Licensing)
Radioactive Materials Safety Branch

Enclosure: Attachment A
Amendment No. 1 to License No. 02-23274-01

Distribution

bcc w/original concurrence, copy of license and original correspondence:

License docket folder

bcc w/copy of license and correspondence:

Inspection folder

bcc w/copy of license:

Reading file

bcc w/correspondence and 2 copies of license:

Shirley Crutchfield, LFMB, MNBB 4503

License only:

State of AZ

KPrendergast

/ /

JMontgomery

/ /

DSkov

/ /

^{BP}
BPrange

1/15/93

REQUEST COPY	REQUEST COPY	REQUEST COPY	REQUEST COPY
YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

FACSIMILE COVER SHEET



The Navajo Nation
**DESIGN &
ENGINEERING
SERVICES**

RECEIVED
HNC
REGION V

1992 DEC 24 AM 10:13

Post Office Box C
WINDOW ROCK, ARIZONA 86515
OFFICE: (602)871-6734 or 6095
FAX :(602)871-6098

SENT TO: U.S. NUCLEAR REG. COMMISSION DATE: 12-15-92 TIME: _____
REGION V
NUCLEAR MATERIALS SAFETY SECTION NO. OF PAGES SENT: 11
(Include Cover Sheet)
1450 MARIA LANE, SUITE 210 PHONE NO.: _____
WALNUT CREEK, CA. 94596 FAX NO.: _____

REMARKS: HERE IS OUR APPLICATION TO RENEW
THE MATERIAL LICENSE FOR OUR DENSITY GAUGE.
THE ORIGINALS WILL BE SENT IN THE MAIL. IF YOU
HAVE ANY QUESTIONS PLEASE FEEL FREE TO
CALL ME @ (602) 871-6100.

FROM: SCOTT HOYSE, ENGINEERING SUPERVISOR
DEPT: ENGINEERING

If you do not receive all the pages indicated,
please call this office immediately,
Telephone No. :(602)871-6734 or 6095

571727

APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
5160-0120
Expires 6-30-90

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20555

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:

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
789 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
NATURAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
146 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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 JURISDICTION.

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

- ☐ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☒ C. RENEWAL OF LICENSE NUMBER 02-23274-01

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

Design and Engineering Services
Post Office Box "C" - The Navajo Nation
Window Rock, Arizona 86515

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

NOTE: Equipment will be used throughout the Navajo Nation at temporary job sites. Equipment will be stored at Navajo Nation/Division of Natural Resources Water Development and Maintenance Department's storage room located at Fort Defiance, AZ, approximately 6 miles from Window Rock.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Gerrald Scott House

TELEPHONE NUMBER

(602) 871-6100

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 Cs137 Am 241
a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time /10 Mici /50 mill

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED
Construction Inspection Density Testing

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE Gerrald Scott House

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREA(S)
Troxler Electronic Laboratories

9. FACILITIES AND EQUIPMENT
Troxler 3440 Density Gauge

10. RADIATION SAFETY PROGRAM
Troxler Electronic Laboratories Training Course

11. WASTE MANAGEMENT N/A

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)
FEE CATEGORY _____ AMOUNT ENCLOSED \$ _____

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

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS PARTS 30, 32, 33, 34, 35, 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.

SIGNATURE - CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Gerrald Scott House

Gerrald Scott House

Engineering Supervisor

11-30-92

FOR NRC USE ONLY

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

FEE EXEMPT

APPROVED BY

DATE

571727

APPLICATION FOR MATERIAL LICENSE
(Continuation Sheet)

5. RADIOACTIVE MATERIAL

- a. Element and Mass Number: CS 137 /Am241: Be
- b. Chemical and/or Physical Form: Sealed Source Per Troxler No. A-102112/A - 102451
- c. Maximum Amount which will be possessed at any one time: Not to exceed 10m Ci CS-137 and 50m Ci AM-241: Be

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

For use in a Troxler Model 3400-B Series Moisture Density Gauge to measure properties of construction materials.

7. RADIATION SAFETY OFFICER AND GAUGE USERS

- a. Gerrald Scott House has been designated as the Radiation Safety officer. A copy of his Troxler Nuclear Gauge Training Certificate is attached for your review. The duties of the Radiation Safety Officer are specified in item 10.
- b. At the present time, we have two gauge operators, Mr. Larry Eagleman and I, who are certified. I would like to add to this list, in 1993, three more operators, Mr. Lemont Yazzie, Mr. Ernest Franklin, and Mr. Sony Franklin. All three are experienced engineering technicians and their Training requirement is specified in item 8.

8. TRAINING OF GAUGE USERS

Each individual that will operate the nuclear gauge either has already completed or will complete the Troxler nuclear gauge training course, read and understand our radiation safety procedures, and be approved by our Radiation Safety Officer. Copies of each individuals training certificate will be maintained on file.

9. GAUGE STORAGE AREA

In the past, we had stored the gauge in our supply room, but due to the lack of space we relocated the storage area to Fort Defiance Arizona. The gauge is currently under lock and key at an approved storage site. I have attached a set of drawings indicating the exact locations of where we keep the gauge when it is not in use. When stored in Fort Defiance, the gauge is only accessible by two sets of keys which is under the direct supervision of Mr. Scott House.

10. RADIATION SAFETY PROGRAM

A. Radiation Safety Officer

Gerrald Scott House has been designated as the Radiation Safety Officer and will assume the duties and responsibilities that include the following:

- 1. To ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to-date.

2. To ensure that the equipment has been leak tested in the required timely manner and that the leak test is performed in the manner prescribed by the equipment manufacturer.
3. To ensure that the use of the equipment is only by individuals that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring equipment when utilizing the equipment.
4. To maintain the records as required by the license and the regulations. These records shall include personnel exposure records, leak test records and training certificates for all users.
5. To ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.
6. To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of emergency.
7. To ensure that all users have read and understand the radiation safety operating and emergency procedures.

B. OPERATING PROCEDURES

a. Transportation of Equipment

1. All possible means shall be provided to ensure that the equipment is fully secured in the transporting vehicle and the equipment is away from the passenger compartment. When transporting in an enclosed vehicle (car or van), the vehicle will be locked. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.
2. The gauge will be transported in the TROXLER transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case.
3. At all times during transport, the operator will have a properly completed Bill of Lading for each gauge.

b. Utilization Procedures

1. When the gauge is in the field, you as the operator/user will maintain control over the gauge at all times. The gauge will never be left unattended.
2. When not making measurements, the gauge should be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge is to be used for its intended purpose only to maintain any radiation exposure to as low as reasonable attainable.
3. When using the equipment, the operator/user assigned will wear the assigned personnel monitoring device. When not using the equipment, the monitoring device will be stored in the radiation free area that has been designated in the office.

c. Maintenance and Leak Test Procedures

1. Periodic maintenance will include cleaning the gauge. During any maintenance, the operator/user will wear personnel monitoring device.
2. No Maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.
3. The leak test will be performed using the TROXLER Model 3880 Leak Test Kit. The leak test will be performed using the manufacturer's instructions. Again, the personnel monitoring device will be employed. Gauges will be leak tested at intervals not to exceed six (6) months.

C. EMERGENCY PROCEDURES

- a. In the event of physical damage to a gauge, the following will be performed:
 1. An area of at least 15 feet radius around the gauge will be immediately cordoned off.
 2. If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
 3. A visual inspection of the gauge will be made to determine if the source housing and/or shielding has been damaged.

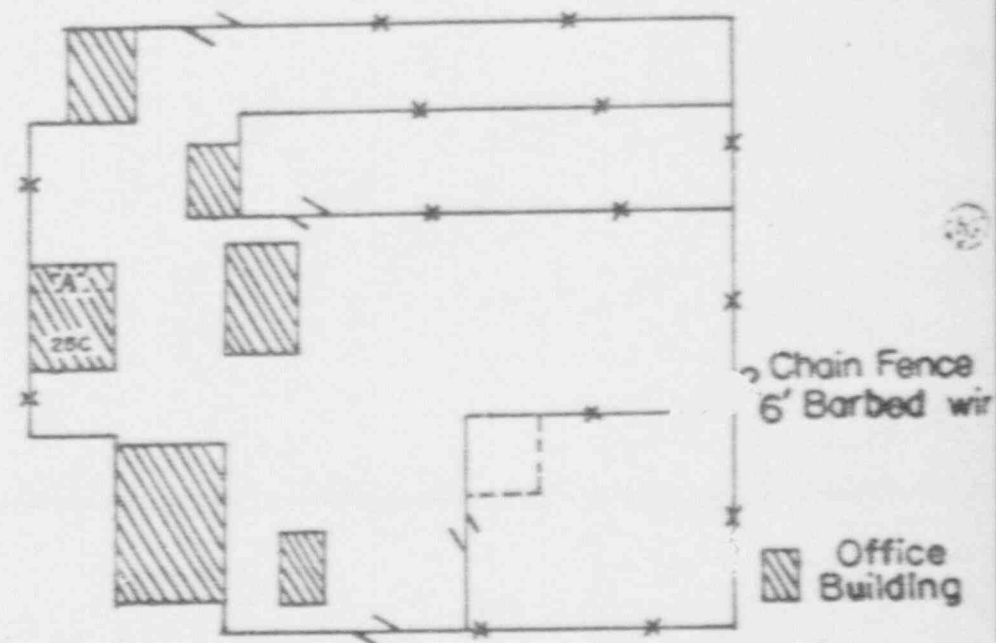
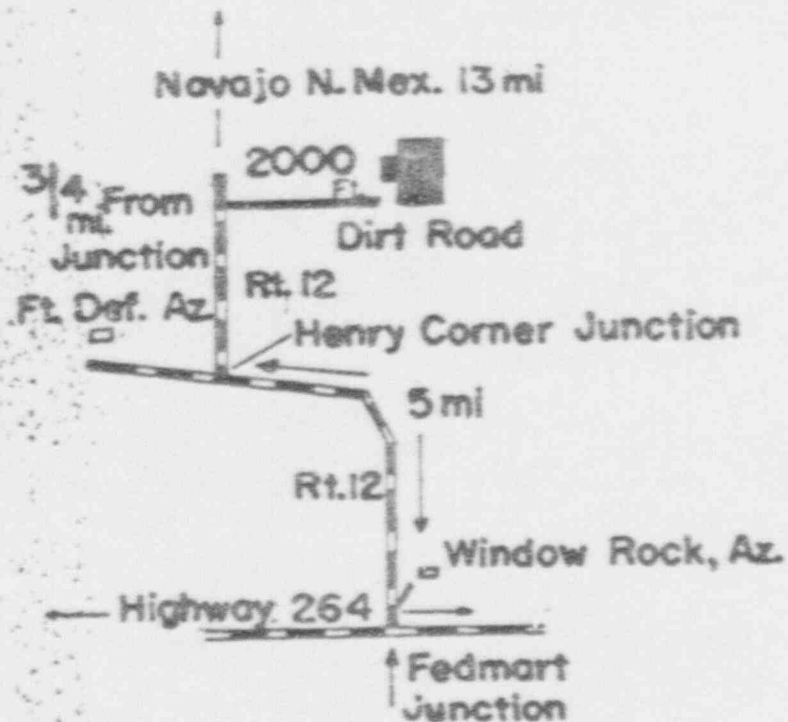
4. At the earliest possible time, when the situation is under control the operator/user will contact Gerrald Scott House at (602) 871-6734 thru 6738, describe the present conditions and follow his instruction.

b. In the event the gauge is lost or stolen, the operator/user will immediately notify Gerrald Scott House for his instruction or action.

11. WASTE MANAGEMENT

Disposal of the gauge will be by transfer to another facility specifically licensed for the material by returning to the gauge manufacturer. Records of transfer will be maintained on file.

WATER DEVELOPMENT AND MAINTENANCE DEPT.
DIVISION OF NATURAL RESOURCES



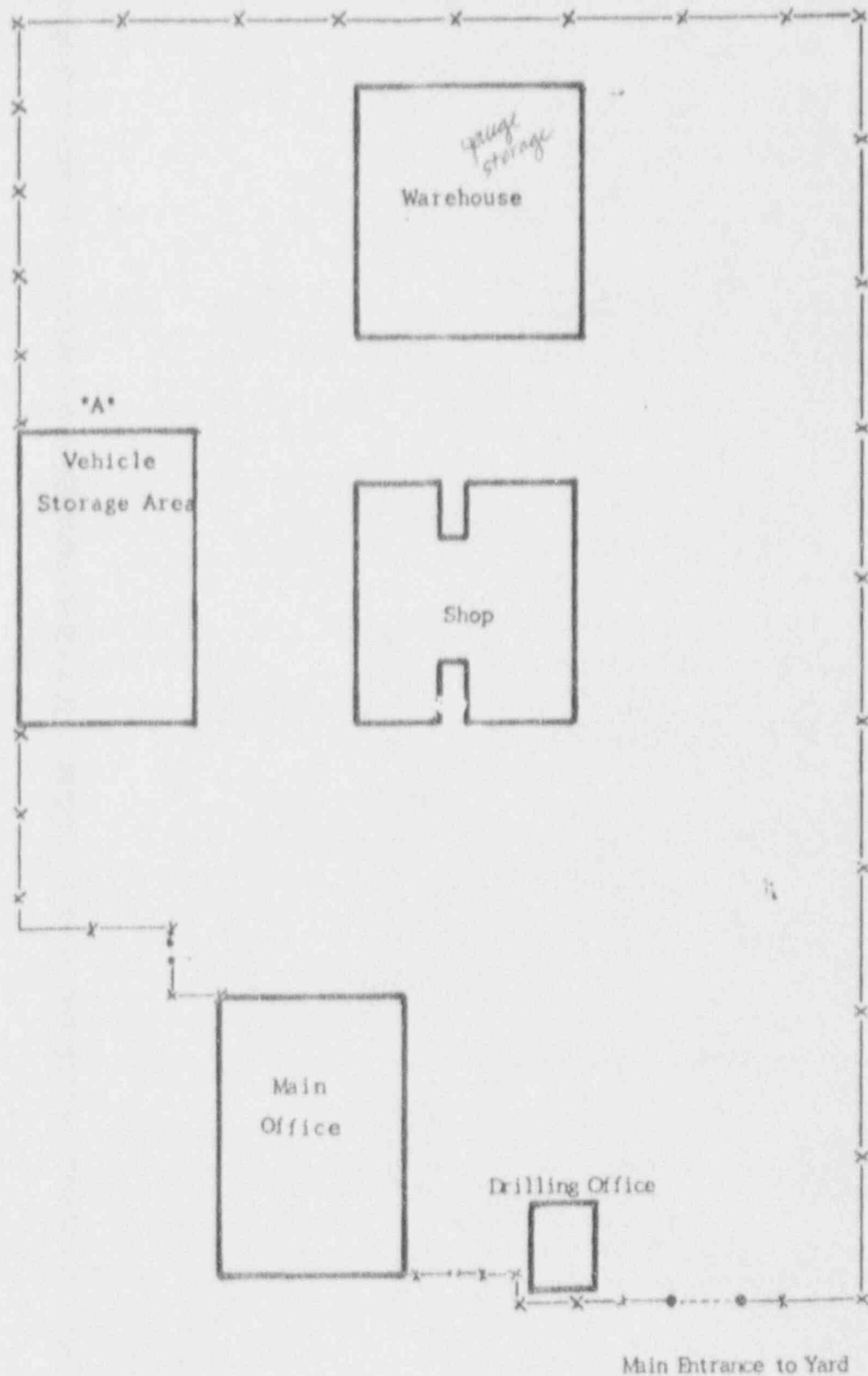
NOTE : 1) The logging vehicle will be parked in the enclosed building 25C in area "A".

2) Enclosed building area is protected by night watchman.

3) Enclosed building area "A", vehicle parking area, is padlock at all times when vehicle is not in use in the field.

NAVAJO NATION WATER DEVELOPMENT

See Enlarged
Sketch

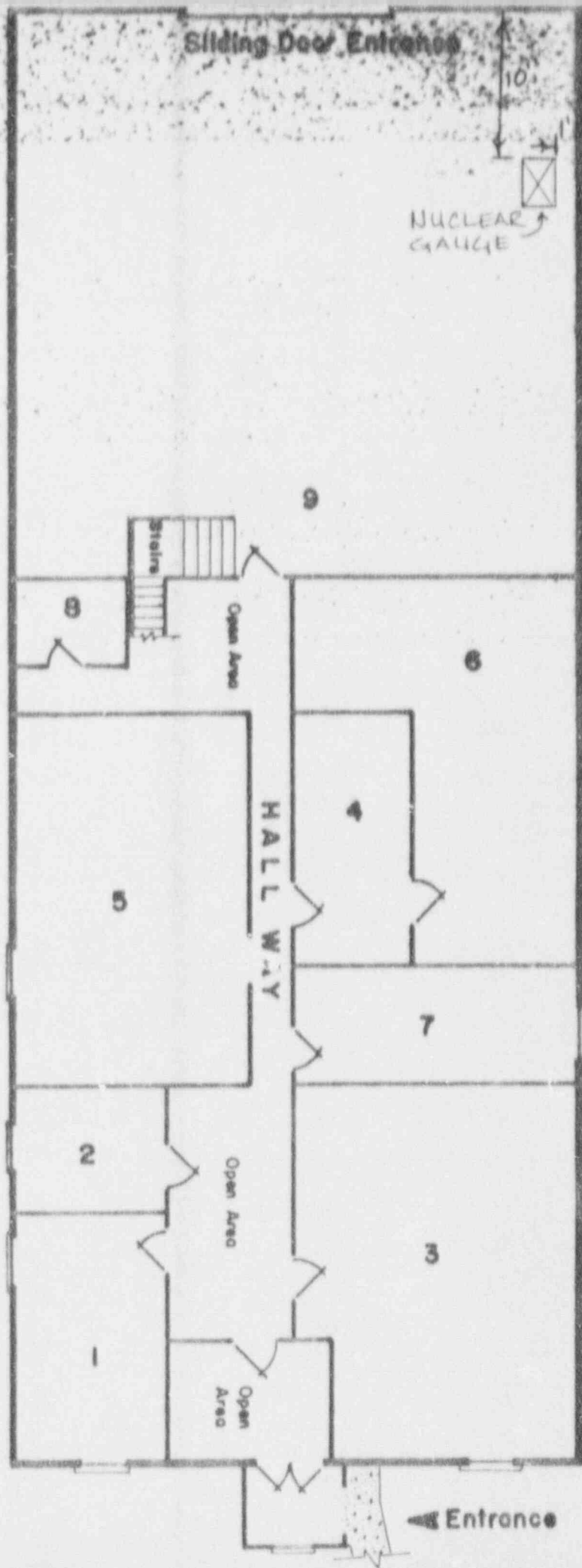




SCALE: 1" = 10'

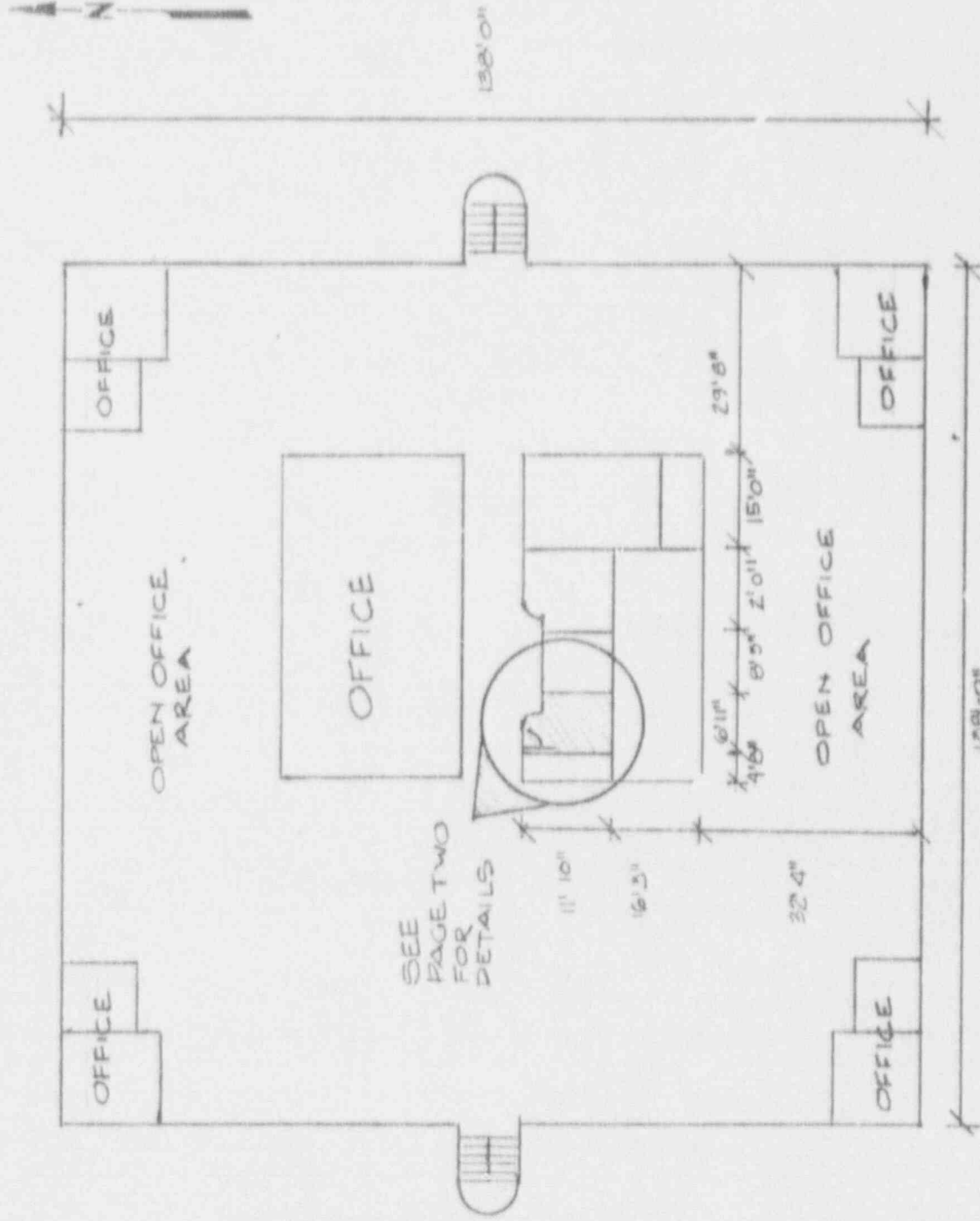
WATER DEVELOPMENT DEPARTMENT
TECHNICAL SERVICE BRANCH

Warehouse



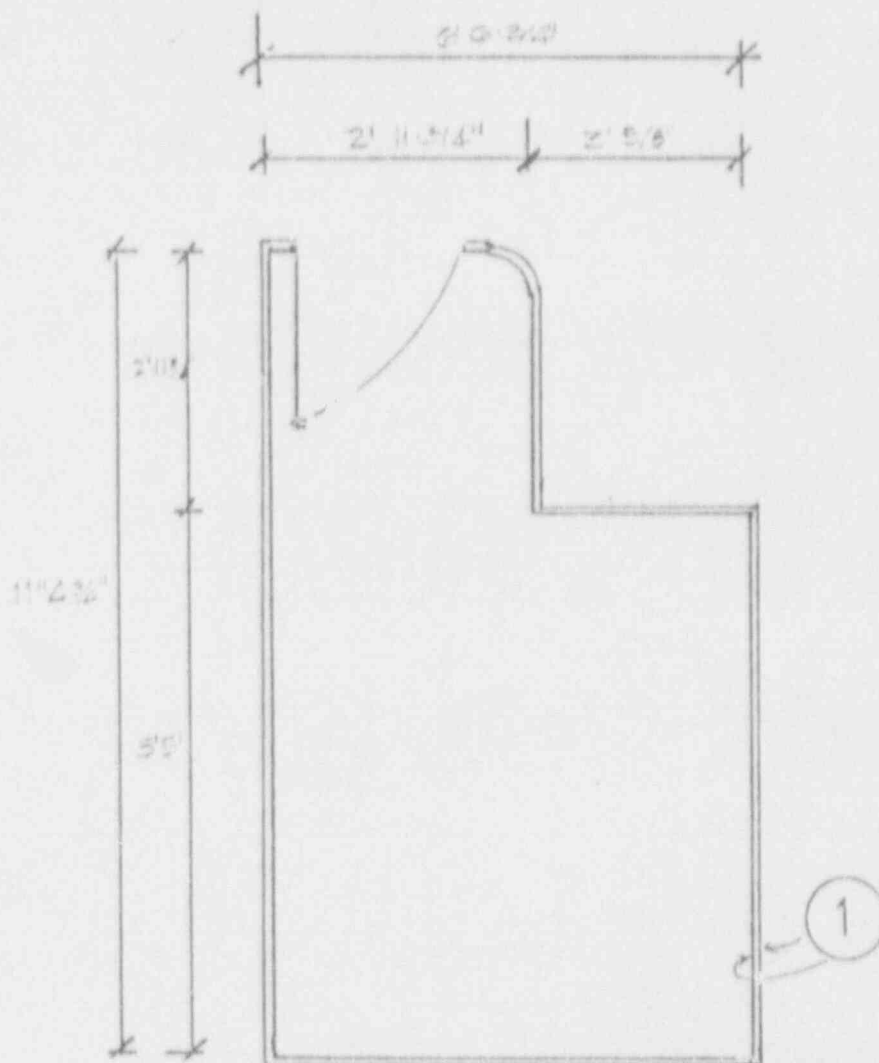
TROXLER NUCLEAR GAUGE STORAGE AREA

ADMINISTRATION BUILDING No. 1
SECOND FLOOR - ROOM No. 220



SCALE 3/8" = 10'-0"

TROXLER NUCLEAR GAUGE STORAGE AREA
Page Two



Notes:

1. Specifications of Outside Wall:
5/8" Gyp Board, 3-5/8" Metal Stud
(As shown)
2. Location of Warning Sign to Employees:
Post CAUTION - RADIOACTIVE MATERIALS on Door
3. Locked Door. Only the Radiation Safety Officer
and Authorized individuals will have keys.
4. All Dimensions inside to inside clear.
5. Design and Engineering Service Department
Post Office Box "C"
Window Rock, Arizona 86515
Telephone (602) 871-6734 thru 6738

571727

TELEPHONE OR VERBAL CONVERSATION RECORD

DATE Dec. 21, 1992
TIME ☐ A.M. ☐ P.M.

☐ INCOMING CALL

☒ OUTGOING CALL

☐ VISIT

PERSON CALLING

OFFICE/ADDRESS

PHONE NUMBER

EXTENSION

PERSON CALLED

OFFICE/ADDRESS

PHONE NUMBER

EXTENSION

Scott House

Design + Engineering Services

(602) 871-6100

CONVERSATION

SUBJECT

Def. Telecom - License Renewal - Control No. 571727

SUMMARY

1) Asked for Troffer certificates for new users: Larry Eagleman, Lemont Yozzie, Ernest Franklin, Sonny Franklin.

Mr. House will fax the ~~def~~ certificate for Larry Eagleman. All others will receive their training in 1993.

2) Is the gauge storage area at the Water Development Dept. Technical Service Branch in the "Warehouse" or "Main Office". It's the Warehouse.

3) Will you have film badges or TLD's? Who processes them? What is the exchange frequency? Quarterly TLD's. Mr. House will include vendor name in fax cover sheet.

- Beth Prange

REFERRED TO:

ACTION REQUESTED

☐ ADVISE ME OF ACTION TAKEN.

INITIALS

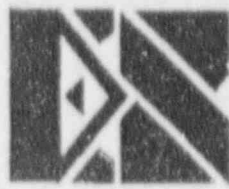
DATE

ACTION TAKEN

INITIALS

DATE

FACSIMILE COVER SHEET



The Navajo Nation
DESIGN &
ENGINEERING
SERVICES

Post Office, Box C
WINDOW ROCK, ARIZONA 86515
OFFICE: (602)871-6734 or 6095
FAX: (602)871-6098

SENT TO: U.S. Nuclear
Regulatory Commission
Attention: Beth Prange

DATE: 12-31-92 TIME: 2:30

NO. OF PAGES SENT: 6
(Include Cover Sheet)

PHONE NO. (602)871-6100

FAX NO. (510)975-0351

REMARKS: Please accept the following clarification to the Renewal of our license # 02-23274-01. Certification of the two users, Accreditation of TLD dosimetry service, letter dated 11-9-87 regarding dosimetry service is the initial application. We have not changed the process and will issue an updated memorandum. If you need additional information please call us.

FROM: Scott Hansen

DEPT: Design and Engineering Services

If you do not receive all the pages indicated,
please call this office immediately.
Telephone No. : (602)871-6734 or 6095

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

Gerrald Scott House
of
Navajo Tribe
Design Engineering Services Department

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

Ben E. Edwards
INSTRUCTOR

9/1/87
DATE

NO 18372

W. F. Troxler
PRESIDENT

Certificate Of Completion

This is to certify that Larry Eaglenan *has completed the basic training*
course on Radiation Safety and Use of Nuclear Soil Gauges, held
this 9th *day of* April 1979, *held at* FHS Training Center *City of* Fort Defiance
State of Arizona *by* Campbell Pacific Nuclear Corporation.

[Signature]
INSTRUCTOR

[Signature]
RADIATION SAFETY OFFICER

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION

PERSONNEL RADIATION DOSIMETRY PROCESSING

Page 1 of 1

NVLAP LAB CODE 0515

THERMO ANALYTICAL INC.
TMA/EBERLINE

5635 Jefferson St. NE, P.O. Box 3874
Albuquerque, NM 87116-874

Ernest A. Sanchez Phone: 505-345-9931

Accreditation Renewal Date: October 1, 1992

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Eberline Manual reader TLR-6.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Eberline TLD-100 (2 or 3 TLD chips) for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

Eberline Albedo TLD for ANSI-N13.11 category VIII.



Albert Pholen

For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation

TMA/EBERLINE
ALBUQUERQUE, NM

*is recognized under the National Voluntary Laboratory Accreditation Program
for satisfactory compliance with criteria established in Title 15, Part 7 Code of Federal Regulations.
Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:*

PERSONNEL RADIATION DOSIMETRY

October 1, 1992

Effective until



For the National Institute of Standards and Technology

NVLAP LAB CODE: 0515

**THE NAVAJO NATION**

PETER MacDONALD, CHAIRMAN
THE NAVAJO TRIBAL COUNCIL
JOHNNY R. THOMPSON, VICE CHAIRMAN
THE NAVAJO TRIBAL COUNCIL

November 09, 1987

Ms. B. Riedlinger
Nuclear Regulatory Commission, Region V
Material Radiation Protection Section
1450 Maria Lane, Suite 200
Walnut Creek, CA 94596

RE: Radioactive Material
License for Nuclear
Densitometer

Dear Ms. Riedlinger:

I am writing this letter to you as per your advice over the telephone today.

We will be using TLD to monitor the radiation to which our technicians will be exposed during the course of testing work using the nuclear device. The TLDs will be exchanged on a quarterly basis.

I hope this will suffice the information you need. Please expedite issuing us the license. We have ordered the equipment on September 03, 1987 and we need the license before the manufacture can send the equipment to us. We are badly in need of this equipment for the monitoring of a large number of construction projects.

Thank you for your cooperation.

Sincerely,

THE NAVAJO NATION

S. Deb Misra

S. Deb Misra, P.E.
Design & Engineering Services Dept.
Post Office Box "C"
Window Rock, Arizona 86515
Tel: (602) 871-6734 thru 6738

SDM:tmc

SDMChrono/PS le

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 03121
Status Code: 0
Fee Category: EX 3P
Exp. Date: 19921130
Fee Comments: 170.11(B)(1)-11/20/87
Decom Fin Assur Req: N

DEC 14 11:19

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
Applicant/Licensee: DESIGN & ENGINEERING SERVICES DEPT.
Received Date: 921130
Docket No: 3020445
Control No.: 571727
License No.: 02-23274-01
Action Type: Renewal

2. FEE ATTACHED
Amount: None
Check No.: None

3. COMMENTS

Signed
Date

Joan Garcia
12-1-92

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone is reached / ☒)

1. Fee Category and Amount: EX 3P
170.11(B)(1)

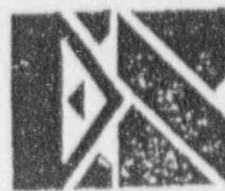
2. Correct Fee Paid. Application may be processed for:
Amendment ☒
Renewal ☒
License ☒

3. OTHER

Signed
Date

Crutchfield
12-8-92

1992 DEC -4 PM 3:32

FACSIMILE COVER SHEET

The Navajo Nation
**DESIGN &
ENGINEERING
SERVICES**

11/30/92 4:55 PM

Post Office Box C
WINDOW ROCK, ARIZONA 86515
OFFICE: (602)871-6734 or 6095
FAX: (602)871-6098

SENT TO: US NUCLEAR
REGULATORY COMMISSION
ATTN: JOAN GARCIA

DATE: 11/30/92 TIME: 4:55 PM

NO. OF PAGES SENT: 2
(Include Cover Sheet)

PHONE NO.: _____

FAX NO.: (510) 975-0351

REMARKS:

FROM: GERRALD SCOTT HOUSE
DEPT.: _____

If you do not receive all the pages indicated,
please call this office immediately.
Telephone No. (602)871-6734 or 6095

11/30/92 4:55 PM

571727

NRC FORM 313
(9-88)
10 CFR 30, 32, 33,
34, 35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3180-0120
Expires: 6-30-90

APPLICATION FOR MATERIAL LICENSE

030-20445

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20555

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:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
476 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2500
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
796 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1480 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94506

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 JURISDICTION.

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

☐ A. NEW LICENSE

☐ B. AMENDMENT TO LICENSE NUMBER

☒ C. RENEWAL OF LICENSE NUMBER 02-23274-01

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

THE NAVAJO NATION
Design & Engineering Services
P.O. Box "C"
Window Rock, Arizona 86515

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

The Navajo Nation
Design & Engineering Services
P.O. Box "C"
Window Rock, Arizona 86515

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Gerald Scott House

TELEPHONE NUMBER

602/871-6100

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 Cs137 Am 241
a. Element and mass number, b. Chemical form, c. Physical form, d. Amount which will be possessed at any one time 710 mCi / 750 mCi

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED
Construction Inspection Density testing

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE Gerald Scott House

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS
Troxler Electronic Laboratories

9. FACILITIES AND EQUIPMENT Troxler 3440 Density Gauge

10. RADIATION SAFETY PROGRAM Troxler Electronic Laboratories Training Course

11. WASTE MANAGEMENT N/A

12. LICENSEE FEES (See 10 CFR 170 and Section 170.37)
FEE CATEGORY AMOUNT
ENCLOSED \$

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

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Gerald Scott House Gerald Scott House

Supervisory Engineer

11/30/92

FOR NRC USE ONLY

TYPE OF FEE FEE DDC FEE CATEGORY COMMENTS

Renewal Nov 2K EX 3P

AMOUNT RECEIVED CHECK NUMBER

FEE EXEMPT

170.11(B)(1)

APPROVED BY

DATE

SAC

12-8-92

571727