252684 -20170

# CONSTRUCTION ENVIRONMENT, INC.

5655-D GENERAL WASHINGTON DRIVE • ALEXANDRIA, VIRGINIA 22312 • (703) 750-0525

February 14, 1988

U. S. Nuclear Regulatory Commission, Region II Nuclear Materials Safety Section 101 Marietta Street, Suite 2900 Atlanta, GA 30323

Reference: Renewal of License No. 45-17380-02

Gentlemen:

Enclosed find an application for renewal of License No. 45-17380-02 and a check in the amount of \$120.00 for the appropriate renewal fee.

Sincerely,

CONSTRUCTION ENVIRONMENT, INC.

Robert N. Endebrock, P.E.

Vice President

7/37 8/20 38 Ren 1/27/69 2/28/65 Messier

9003080035 890419 REG2 LIC30 45-17380-02 PDR Construction Environment, Inc., Alexandria, VA. Renewal of License No. 45-17380-02

## 5. Radioactive Material:

Delete: (a) CS-137 and AM-241:Be

(b) Sealed source

(c) Troxler model 2401 gauge

(d) 0.0087 Ci./0.04 Ci.

Add:

(a) CS-137 and AM 241:Be

(b) Sealed source

(c) Troxler model 3440 Nuclear Density Gauge,

Serial No. 14144 (d) 0.008 Ci./0.040 Ci.

6. Purpose for which licensed material will be used:

Gauges to measure moisture content, density and compaction of soils, soil-stone aggregates, cement and asphalt treated bases and asphalt surfacing.

7. Radiation Protection Officer:

Delete: Jeffrey F. Mosher

Add: Mirkazem Farhangi, P. E., Project Manager

Individuals who will use equipment:

Delete: Jeffrey F. Mosher

Anthony D. Charfauros

Add: Mirkazem Farhangi, Project Manager

Enefick Anwana, Field Engineer Nehme Pierre Klat, Field Engineer Construction Environment, Inc., Alexandria, Va. Renewal of License No. 45-17380-02 Page 2

8. Training:

Mirkazem Farhangi - Successfully completed the Troxler Electronic Laboratories, Inc. training course for the use of nuclear testing equipment. Included in this course were subjects on radiological safety and gauge operation. Certification received May 14, 1987. One and one-half years of relevant field experience with the nuclear soil gauge.

Enefick Anwana - Successfully completed the Troxler Laboratories, Inc. training course for the use of nuclear testing equipment. Included in this course were subjects on radiological safety and gauge operation. Certification received November 24, 1987. One year of relevant field experience with the nuclear soil gauge.

Nehme Pierre Klat - Completed the Campbell Pacific Nuclear Corporation basic training course on Radiation Safety and Use of Nuclear Soil Gauges, receiving certification on February 26, 1987. Two years of relevant field experience with the nuclear soil gauge.

AMOUNT RECEIVED

CHECK NUMBER

U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB 3150-0120 Expires 6-30-80

DATE

APPLICATION FOR MATERIAL LICENSE 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 PLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH: IF YOU ARE LOCATED IN: U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS WASHINGTON, DC 20666 ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION 799 ROOSEVELT ROAD GLEN ELLYN, IL 60137 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: ARKANSAS, COLORADO, IDAHO, KANSAS, LOUIGIANA, MONTARA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION I NUCLEAR MATERIALS SAFETY SECTION B 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE, SUITE 1000 ARLINGTON, TX 78011 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUER: O DICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS U.S. NUCLEAR REGULATORY COMMISSION, REGION II NUCEAR MATERIALS SAFETY SECTION 101 MARIETTA STREET, SUITE 2900 ATLANTA, GA 30323 U.S. NUCLEAR REGULATORY COMMISSION, REGION V NUCLEAR MATERIALS SAFETY SECTION 1460 MARIA ŁANE, SUITE 210 WALNUT CREEK, CA 94566 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) 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code) A. NEW LICENSE Construction Environment, Inc. B. AMENDMENT TO LICENSE NUMBER \_ 5655-D General Washington Drive C. RENEWAL OF LICENSE NUMBER \_ 45-17380-02 Alexandria, Virginia 22312 3. ADDRESSIES WHERE LICEN D MATERIAL WILL BE USED OR FOSSESSED. a. 5655-D General Washington Drive, Alexandria, Virginia 22312 b. Various construction sites in Virginia, Maryland and the District of Columbia A NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION TELEPHONE NUMBER Robert N. Endebrock, Vice President (703) 750-0525 SUBMIT ITEMS 5 THROUGH 11 ON 85 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE 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. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. 9. FACILITIES AND EQUIPMENT O RADIATION SAFETY PROGRAM 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) 11. WASTE MANAGEMENT AMOUNT ENCLOSED \$ 120.00 FEE CATEGORY 3P 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. VARNING: 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. TYPED/PRINTED NAME TITLE 2/13/89 Jose, I. Fernandez President FOR NRC USE ONLY TYPE OF FEE FEELOG FEE CATEGORY COMMENTS APPROVED BY

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03121

# CONSTRUCTION ENVIRONMENT, INC.

5655-D GENERAL WASHINGTON DRIVE . ALEXANDRIA, VIRGINIA 22312 . (703) 750-0525

October 14, 1983

Mr. Robert A. Brown U. S. Nuclear Regulatory Commission Region III 101 Marietta Street, N. W., Suite 3100 Atlanta, Georgia 30303

Reference: License No. 45-17380-01

Dear Mr. Brown:

The enclosed materials are submitted pursuant to your request. We apologize for the delay and trust that you will find everything in order to bring our license validity up to date.

If there are any questions, please contact the undersigned directly. Thank you for your kind consideration.

Very truly yours,

CONSTRUCTIO	N ENVIRONMENT, INC.	7 m	
TIDE	Jonander		
Jose I. Fer Chief Engin	nandez, P.E.	RECEIVED	
JIF/vdd	Applicant. 4430	No :21	
Enclosures	Type of Fea. Opplication	$\approx$	
	Received Dy Brann		
	RECEIVED BY LFMB	applicant 38 FX	
	Date. 11/9/83	Line And Alexander	
	By L	and the day fraction	
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	Action Compl. # 2.7463	50101	
		Received 10/4/8	13
		Po	

11.	RM NRC-3131 . (79) CFR 30	S. NUCL REGULATORY	COMMISSION	APPLICATION FOR: (Check and/or complete at appropriate)
	APPLICATION FOR	BYPRODUCT MATER INDUSTRIAL	IAL LICENSE	. NEW LICENSE
See	ettached instructions for details.			b. AMENDMENT TO:
Wash	pleted applications are filed in one of Nuclear Material Safety, and hington, DC 20555 or application of H Street, NW, Washington, D.	nd Safeguards, U.S. Nuclear Re	gulatory Commission,	c. RENEWAL OF: LICENSE NUMBER 45-17380-01
2. A	PPLICANT'S NAME (Institution,  Construction Environ		APPLICATION	CONTACTED REGARDING THIS
76	LEPHONE NUMBER: AREA CO		Jose I. Fernande	
	(703) 750-0525	DE - NUMBER EXTENSION	(703) 750-0525	EA CODE - NUMBER EXTENSION
4. A	PPLICANT'S MAILING ADDRES	S (Include Zip Code)	5. STREET ADDRESS WHERE	LICENSED MATERIAL WILL BE USE
	5655-D General Wash Alexandria, VA 223	[1] [2] [1] [4] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	Various construct Washington, D. C.	ion sites in Virginia, and Maryland.
			USE ADDITIONAL PROPER	
6. 11		JSE OR DIRECTLY SUPER	VISE THE USE OF LICENSED	
· ·	FULL N	THE RESIDENCE OF THE PARTY OF T	I DE Nameo Delow)	TITLE
	Joffran F. Machan			
	Jeffrey F. Mosher		Laboratory-Field	Coordinator
b.	Replace Bosephu		E Company	
c.	Anthony D. Charfaur	os	Field Technician	
7. R	Jeffrey F. Mosher	ER	Attach a resume of person's train 16 and 17 and describe his respon	ning and experience as outlined in Items insibilities under Item 15.
		8. LICENSE	DMATERIAL	
1-2E	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI-VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
NO.	A 00 127 1	В	C	D
(1)	CS-137 and AM-241-BE	Sealed source	Troxler 3411	.0076/.04
(2)	CS-137 and AM-241-BE	Sealed source	Troxler 3411	.0076/.0.,
(3)	CS-137 and AM-241-BE	Sealed source	Troxler 2401	.0087/.04
(4)				
		DESCRIBE USE OF	LICENSED MATERIAL	
(1)	For use in the dete	rmination of moistu	re and density of in-	place soil in
(2)	connection with con	struction testing a	nd inspection.	

(3)

		9.	STORAGE OF	SEALED SOURCE	S	
J-2m0.	Container supplied by manufacturer		ACH SEALED			MODEL NUMBER
(1)			cturer			3411
(2)						3411
(3)	"			"		2401
(4)						
		10. RAG	DIATION DET	ECTION INSTRUM	ENTS	,
Zwz-r	TYPE OF INSTRUMENT	MANUFACTURER'S NAME B	MODEL NUMBER	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	Geiger Counter	Eberline Instrument Cor	E-130G	2		0.25 MR/HR
(2)	See item 12					
(3)						
(4)						
		11. CALIBRA	ATION OF INS	TRUMENTS LISTE	D IN ITEM 10 D BY APPLICANT	
		cs Services, Inc an Lane, Suite 2 20854	01	NITORING DEVICE	ting instruments.	
	TYP		NSOIVIVEE INO	SUPPLIER		EXCHANGE FREQUENCY
	(Check and/or comple	ete as appropriate.)		(Service Company)		С
	1) FILM BADGE  2) THERMOLUMINES  DOSIMETER (TLD	SCENCE	R. S. L	andauer, Jr. &	. Co.	MONTHLY  QUARTERLY
D(	3) OTHER (Specify):					OTHER (Specify):
	13 FACULTIES	S AND EQUIPMENT (C	heck were appr	opriate and attach a	nnotated sketch(es)	and description(s).
MY.	A LARORATORY F	ACILITIES, PLANT FACIL	ITIES, FUME H	OODS (Include filtrati	ion, if any), ETC.	
00	b. STORAGE FACIL	ITIES, CONTAINERS, SPE ING TOOLS OR EQUIPME ROTECTIVE EQUIPMENT	CIAL SHIELDIN	IG (fixed and/or tempo	orary), ETC.	
			14. WAS	STE DISPOSAL		
	N/A					
100000	BE USED FOR DISPO THE APPLICATION IS No radioacti	SING OF RADIOACTIVE IS FOR SEALED SOURCES IVE WASTES ARE BE	wastes and e and devices nerated by	AND THEY WILL BE	RETURNED TO THE nt, since it u	OF METHODS WHICH WILL FACTIVITY INVOLVED. IF MANUFACTURER, SO STATES sealed sources the manufacturer.

FORM NAC 3131 (1 79)

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

- 15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
- 16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
  - a. Principles and practices of radiation protection.
  - b. Radioactivity measurement standardization and monitoring techniques and instruments.
  - Mathematics and calculations basic to the use and measurement of radioactivity.
  - d. Biological effects of radiation.
- 17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

### 18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our 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.

e. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	Verifica & Cancel			
\$50.00	c. NAME (Type or print) Veronica D. Daniel			
(1) LICENSE FEE CATEGORY: 170.31-3	d. TITLE Assistant Secretary			
(2) LICENSE FEE ENCLOSED: \$ 50.00	e. DATE April 2, 1982			

CONSTRUCTION ENVIRONMENT, INC.

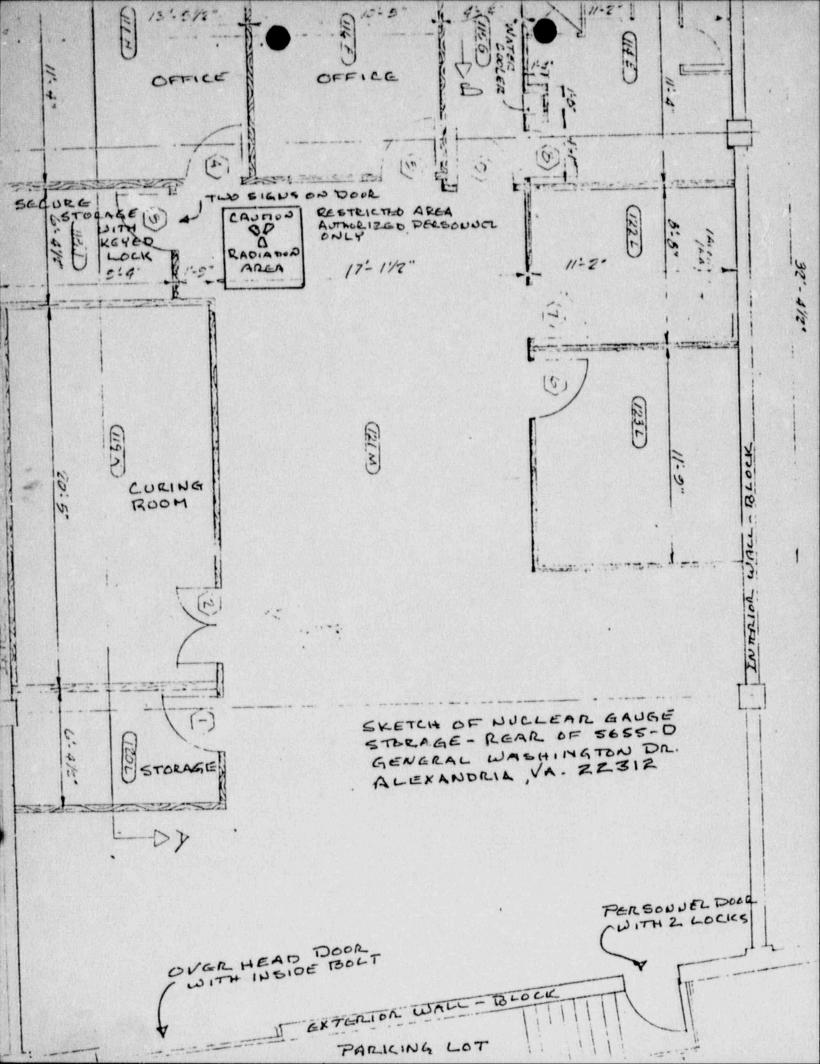
# SUPPLEMENTAL INFORMATION FOR NRC-3131

- ITEM 5 Duties of Radiation Safety Officer include:
  - (1) Checking to see that nuclear density gauges are used safely and properly in the field and used only by authorized personnel, wearing film badges.
  - (2) Keeping all records in accordance with license terms and conditions concerning nuclear density gauges, such as, license and supporting documentation, radiation badge reports, leak test records, etc.
  - (3) Performing periodic leak tests on nuclear density gauges.
  - (4) Giving assistance and/or information in case of emergency if an accident or damage occurs with the nuclear density gauges.
  - (5) Securing gauges against unauthorized use or removal.
- ITEM 6 Sealed sources are the following:
  - One (1) Troxler Model 2401 Cessium 137/Americium 241

    Maximum of 10 millicuries CS-137 and 40 millicuries AM-241-BE
  - Two (2) Troxler Model 3411

    Cessium 137/Americium 241

    Maximum of 8 millicuries CS-137 and 40 millicuries AM-241-BE
- ITEMS 8 and 9 Raphael Benvegnu is no longer with the firm.
- ITEM 13 See attached sketch.
- ITEM 14 Leak test results are shipped to Troxler Electronic Laboratories for analysis.
- ITEM 14(a) 14(e) See attached "GENERAL INSTRUCTIONS FOR USE OF NUCLEAR MOISTURE/DENSITY GAUGES".



CONSTRUCTION ENVIRONMENT, INC. GENERAL INSTRUCTIONS FOR USE OF NUCLEAR MOISTURE/DENSITY GAUGES A. ELIGIBILITY No person shall use a nuclear moisture/density gauge (NMDG) unless that person has: (1) Successfully completed a training course conducted by a representative of a NMDG manufacturer, or (2) Successfully completed a training course conducted by the CEI Radiation Protection Officer or his authorized representative, and is using the NMDG under the direct physical supervision of a person trained under (1) above. (3) Been assigned a film badge and wears that specific film baddge at all times while using, handling or transporting the NMDG. B. PREPARATION No person shall use a NMDG unless, prior to leaving the CEI laboratory, or other approved temporary storage for the gauge, that person has verified that: (1) The NMDG meets the calibration standards supplied by the manufacturer, and (2) All accessories required for the proper and safe operation of the NMDG are available and carried with the NMDG to the place of use. C. TRANSPORT The NMDG must be transported in its case to, from and between project locations; under such conditions ("YELLOW 11" LABEL), it may be transported by motor vehicle without placarding the vehicle. In addition, the person transporting the NMDG shall: (1) Verify that the source shield is in place prior to placing the NMDG in its case. (2) Verify that all closure devices of the case are secured. Revised 10/14/83

CONSTRUCTION ENVIRONMENT, INC. GENERAL INSTRUCTIONS FOR USE OF NUCLEAR MOISTURE/DENSITY GAUGES (Continued) (3) Place the NMDG/case in a portion of the vehicle that can be locked. Whenever possible, carry in locked trunk; otherwise in cabin as far as practicable from the driver or other persons in the vehicle. Maintain a minimum distance of 12 in. between the case and occupant of the vehicle. (4) In the event of an accident resulting in any visible damage to the case, immediately inform any police/fire/rescue personnel at the scene regarding the contents of the case. As soon as possible, notify the CEI Radiation Protection Officer or the CEI Chief Engineer. If incapacitated, ask police/fire/rescue personnel to please notify CEI. (5) In the event of an accident that results in substantial damage to the case and any visible damage to the NMDG itself, have police/fire/rescue personnel contact the local Health Department immediately, and also notify the above-mentioned CEI personnel immediately. If incapacitated, ask police/fire/rescue personnel to please make the notifications for you. D. OPERATION Operation of the NMDG shall be only in accordance with the manufacturer's manual for each specific gauge model. In all cases, observe the following procedures. (1) At the beginning of each day of use and upon first arrival at a project site, verify that the NMDG meets the calibration standards supplied by the manufacturer. (2) Verify that the source shield is in place when the NMDG is not in use. (3) Keep all persons (other than authorized personnel wearing film badges) at least 15 ft. away from the NMDG while in use. (4) Maintain security of the NMDG at all times. Keep NMDG under constant visual surveillance between tests (NMDG shall not be left at any time under the care of any other party). Store only in locked areas, if temporary storage at a project site is necessary. (5) In the event of an accident, follow procedures outlined above under "TRANSPORT". (6) When in doubt about anything, ASK the CEI Radiation Protection Officer or the CEI Chief Engineer. Revised 10/14/83

CONSTRUCTION ENVIRONMENT, INC.



5655-D GENERAL WASHINGTON DRIVE ● ALEXANDRIA, VIRGINIA 22312 ● (703) 750-0525

April 2, 1982

Division of Fuel Cycle & Material Safety Office of Nuclear Material Safety & Safeguards U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Reference: Renewal of License No. 45-17380-01

Gentlemen:

The personnel listed below have the following relevant training and experience:

Jose I. Fernandez - Troxler Electronic Laboratories, Inc., two day training in Radiation Safety and Use of Nuclear Scil Gauge, receiving certification on January 31, 1980. Two and one-half years relevant field experience with the nuclear soil gauge.

Jeffery F. Mosher - Campbell Pacific Nuclear Corp., one day training course on Radiation Safety and Use of Nuclear Soil Gauge, receiving certification on January 31, 1980. Two and one-half years relevant field experience with the nuclear gauge.

Anthony D. Charfauros - Campbell Pacific Nuclear Corp., one day training course on Radiation Safety and Use of Nuclear Soil Gauge, receiving certification on April 8, 1981. One year relevant field experience with the nuclear soil gauge.

Raphael Benvegnu - Received 2 weeks supervised on the job training on the nuclear soil gauge with a prior employer and had two years field experience with the soil gauge while working for the prior employer. Verification by CEI of proper use and safety training and two years experience with the soil gauge at CEI.

I VILLE STANK

We hope that the above information will be satisfactory, if there are any further questions or information you may need please contact us.

Very truly yours,

CONSTRUCTION ENVIRONMENT, INC.

eranica D. Saniel

Veronica D. Daniel

Administrative Assistant

Attachment

10 (	APPLICATION FOR	BYPRODUCT MATERIA		APPLICATION FOR: Check and/or complete as appropriate) 30 -19816  a. NEW LICENSE
Comp. Office Wash	attached instructions for details.  Deted applications are filed in de- e of Nuclear Material Safety, and ington, DC 20555 or application H Street, NW, Washington, D. C.	policate with the Division of Fo I Safeguards, U.S. Nuclear Registrian to the Safeguards of the Safegu	ulatory Commission, Commission's office at	c. RENEWAL OF: LICENSE NUMBER  LICENSE NUMBER  45-17380-01
2. AP	PLICANT'S NAME (Institution, for Construction Environ		3. NAME OF PERSON TO BE CAPPLICATION  Jose I. Fernande:	CONTACTED REGARDING THIS
TEL	EPHONE NUMBER: AREA COD (703) 750-0525			EA CODE - NUMBER EXTENSION
4. AP	5655-D General Washi Alexandria, VA 2231	ngton Drive	(Include Zip Code)	ion sites in Virginia, and Maryland.
6. IN	(IF MORE SPACE IS NDIVIDUAL(S) WHO WILL U See Items 16 and 17 for required tr	SE OR DIRECTLY SUPERV	USE ADDITIONAL PROPER VISE THE USE OF LICENSED  dividual named below)	LY KEYED PAGES.)  MATERIAL
	FULL NA			VITAE.
a.	Jeffrey F. Moshe	RECEIVED BY FMB	Laboratory-Field	Coffee Sec 3857
b.	Raphael Bevegnu Da	TULV POV	Field Engineer	Type of Fee Denumber Date Check Rec d. \$1941
с.	Anthony D. Che faur	s () form	Field Technician	Received By garques
/. N	Jeffrey F. Mosher	rig. To	Attach a resume of person's train 16 and 17 and describe his respon	ning and experience as organism in items nsibilities under Item 15.
		8. LICENSE	MATERIAL	MATERIAL PROPERTY AND
		A THE PARTY OF THE	NAME OF MANUFACTURES	
L N E	ELEMENT AND MASS NUMBER	AND/OR PHYSICAL FORM	MODEL NUMBER (If Sealed Source)	MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
	AND MASS NUMBER	AND/OR	MODEL NUMBER	VITY PER SOURCE WHICH WILL
E	AND MASS NUMBER  A CS-137 and AM-241-BE	AND/OR PHYSICAL FORM	MODEL NUMBER (If Sealed Source)	SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
E	AND MASS NUMBER  A CS-137 and AM-241-BE CS-137 and AM-241-BE	AND/OR PHYSICAL FORM B	MODEL NUMBER (If Sealed Source)	SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(2)	AND MASS NUMBER  A  CS-137 and AM-241-BE CS-137 and	B Sealed source	MODEL NUMBER (II Sealed Source)  C Troxler 3411	SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(2)	AND MASS NUMBER  A  CS-137 and AM-241-BE CS-137 and AM-241-BE CS-137 and	B Sealed source Sealed source Sealed source	MODEL NUMBER (If Sealed Source)  C Troxler 3411 Troxler 3411 Troxler 2401	SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D .0076/.04
(2)	AND MASS NUMBER  A  CS-137 and AM-241-BE CS-137 and AM-241-BE CS-137 and	B Sealed source Sealed source Sealed source	MODEL NUMBER (If Sealed Source)  C Troxler 3411 Troxler 3411 Troxler 2401	SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D .0076/.04
(2)	AND MASS NUMBER  A  CS-137 and AM-241-BE CS-137 and AM-241-BE CS-137 and AM-241-BE	Sealed source  Sealed source  Sealed source  DESCRIBE USE OF	MODEL NUMBER (If Sealed Source)  C Troxler 3411 Troxler 3411 Troxler 2401	SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D .0076/.04 .0076/.04 .0087/.04
(2) (3) (4)	AND MASS NUMBER  A  CS-137 and AM-241-BE CS-137 and AM-241-BE CS-137 and AM-241-BE  For use in the dete	Sealed source  Sealed source  Sealed source  DESCRIBE USE OF	MODEL NUMBER (If Sealed Source)  C Troxler 3411 Troxler 3411 Troxler 2401  LICENSED MATERIAL  Tree and density of in-	SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D .0076/.04 .0076/.04 .0087/.04
(2) (3) (4)	AND MASS NUMBER  A  CS-137 and AM-241-BE CS-137 and AM-241-BE CS-137 and AM-241-BE  For use in the dete	Sealed source  Sealed source  Sealed source  DESCRIBE USE OF E	MODEL NUMBER (If Sealed Source)  C Troxler 3411 Troxler 3411 Troxler 2401  LICENSED MATERIAL  Tree and density of in-	SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D .0076/.04 .0076/.04 .0087/.04

		9.	STORAGE OF	SEALED SOURCE	8	12 12 March
0.45	CONTAINER AND/ SOURCE WILL BE		ACH SEALED	NAME OF M	B.	MODEL NUMBER
		Α.		Troxler Elec		
1	Container su	pplied by manufa	cturer	Laboratories		3411
)	"			n n	u	3411
1)	"			, u	u	2401
4)						
_		10. RA	DIATION DET	ECTION INSTRUM	ENTS	
J-240	TYPE OF INSTRUMENT	MANUFACTURER'S NAME	MODZL NUMBER	NUMBÉR AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
1)	Geiger Counter	Eberline Instrument Cor	E-130G	2		0.25 MR/HR
2)	See item 12					
3)						
(4)						
-	L	11. CALIBR	ATION OF INS	TRUMENTS LISTE	D IN ITEM 10	
	Potomac, MD	12. PE	RSONNEL MO	NITORING DEVIC	ES	
	(Check and/or comp			SUPPLIER (Service Company)		EXCHANGE FREQUENC
EX.	(1) FILM BADGE		R. S. I	Landauer, Jr.	& Co.	MONTHLY
	(2) THERMOLUMINE DOSIMETER (TL					O QUARTERLY
	(3) OTHER (Specify):					OTHER (Specify):
VF08	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COL	S AND EQUIPMENT (	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT			and description(s).
	b. STORAGE FACIL	LITIES, CONTAINERS, SP LING TOOLS OR EQUIPM	PECIAL SHIELDI ENT, ETC.			
	d. HESPIHATORY	PROTECTIVE EQUIPMEN		STE DISPOSAL		
a.	NAME OF COMMERC	CIAL WASTE DISPOSAL S	AND DESCRIPTION OF THE PARTY OF			
b.	THE APPLICATION No radioact	OSING OF RADIOACTIVE IS FOR SEALED SOURCE IVE WASTES ARE 'g	WASTES AND I S AND DEVICES enerated b	ESTIMATES OF THE T S AND THEY WILL BE y this equipme	TYPE AND AMOUNT OF RETURNED TO THE PINT, SINCE IT	OF METHODS WHICH WILL DF ACTIVITY INVOLVED. MANUFACTURER, SO STA uses sealed source the manufacturer.

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

- 15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit,
- 16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
  - a. Principles and practices of radiation protection.
  - b. Radioactivity measurement scandardization and monitoring techniques and instruments.
  - c. Mathematics and calculations basic to the use and measurement of radioactivity.
  - d. Biological effects of radiation.
- 17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or onthe-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

# 18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our 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.

e. LIUENSE FEE REQUIRED (See Section 170,31, 10 CFR 170)	b. CERTIFYING OFFICIAL Signatural		
\$50.00	Veronica D. Daniel		
(1) LICENSE FEE CATEGORY: 170.31-3	d. TITLE Assistant Secretary tear Regulator		
(2) LICENSE FEE ENCLOSED: \$ 50.00	e. DATE April 2, 1982 Mail Section		

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