Civil, Geotechnical & Materials Engineers Testing Laboratories & Environmental Services

Specializing In:

Geotechnical Foundation

Fred E. Palmerton, PE Brad R. Parrish, PE Ronald Abbiatti, Geologist Michael G. Andress 4166 W. Kearney Springfield, MO 65803 417-864-6000, FAX 417-864-6004 3500 East 13th Street Joplin, MO 64801 417-624-2005, FAX 417-624-5530 10,000 Hwy 160 Walnut Shade, MO 65771 417-335-6011, FAX 417-561-8400

Materials of Construction Hydrology-Drainage Core Drilling Environmental Audits

February 5, 2008

Materials Licensing Section
US Nuclear Regulatory Commission Region III
801 Warrenville Road
Oisle, Illinois 60532-4351

RE: Amendment to Licence #24-25998-01

Attached, please find two copies of our application to amend license #24-25998-01. There are two basic reasons for this amendment. The first is that we have built a new office and laboratory building next to our former building and have a new address. See Attachment A-1, which is the drawing showing the revised location for gauge storage in our Springfield facility.

The second purpose is to change the name of the primary Radiation Safety Officer from Ron Abbiatti to Michael R. Foley. Previously, Mr. Abbiatti has been the primary Radiation Safety Officer and Mr. Foley, his assistant. If this amendment is approved, the positions will be reversed, with Mr. Foley being the primary Radiation Safety Officer, assisted by Mr. Abbiatti.

It is our understanding that no license fee is required. However, if our understanding is incorrect, please contact us and a check will be submitted.

PALMERTON & PARRISH, INC.

By:

Fred E. Palmerton, P. É.

FEP:ib

Attachments

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OME: NO. 3180-0130

VALUE - 2014

(7-96) 10 CFR 30, 32, 33 34, 35, 38, 39 and 40

APPLICATION FOR MATERIAL LICENSE

Estimated hunden per respense to comply with this infermation exhaution request. Thous. Submitted of the application is recessery to determine that the applicant is qualified and that adequate procedures exist to protect the public health and satisfy. Forward comments repeating burden estimate to the information and Research Management Beach (7-4 PSS), U.B. Nuclear Regulatory Commission, Vestiliageon, CC 2008-5001, and to the Poperventi Reduction Project (9150-0120), Office of Management and Budget, Westilington, DC 20083. HRC may not senduate or spensor; and a person in not required to respend to, a callection of information unless it displays a currently valid CMB sendral number.

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 SAFEQUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC. 20355-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

Connecticut, Delamare, District of Columbia, Maine, Maryland, Massachusetts, New Hampshare, New Jersey, New York, Pennsylvania, Rhode Island, or Vermont, Bend Applications to:

LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY SRANCH U.S. NUCLEAR RESULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19408-1415

ALABAMA, FLORIDA, GEORGIA, MENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGIMA, VIRGIN ISLANDS, OR WEST VIRGIMA, BEIRD APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION I 191 MARIETTA ETREET, NW, SUITE 2000 ATLANTA, GA. 30323-0190 IF YOU ARE LOGATED IN:

ILLINGIS, INDIAMA, IOWA, MICHIGAM, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, BEIND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IS BOT WARRIENVILLE RD.
USE E. IL. 60820-4881

ALABKA, ARIZONA, ARKANBAS, CALIFORNIA, COLORADO, HAWAH, IDAHO, KANBAS, LOUISLAMA, MONTANA, NEBRABICA, NEVADA, NEW MEZICO, NORTH DAKOTA, OKLANDINA, ONEBON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYONING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 78011-8084

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

۹.	1. THIS IS AN APPLICATION FOR (Check expropriets item)									2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)			
	Y	A. NE B. Al	EW LICENS MENDMEN	E I TO UCEN	ISE NUMBER	24-	25998	3-01	\			PARRISH, INC.	
	~	C. RI	ENEWAL O	F LICENSE	NUMBER					1 '	58 w kearne		
l '		1								SPI	RINGFIELD M	MO 65803	
3 4	3. ADDRESSIES WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED PALMERTON & PARRISH, INC.											4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
	4168 W KEARNEY ST								T. T. C	4.7 -	OCARTONS	FRED E. PALMERTON, P.E.	
				D MO 64-60	65803 000			2 ADD: ATTACHI			LOCATIONS	TELEPHONE NUMBER 417-864-6000	
BUE	BUBMIT 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.	RAD	MOACTIV	VE MATERI	AL.	SE.	E AT	TACH	MENT B		Τ	SEE ATTA	ACHMENT C CHLICENSED MATERIAL WILL SE USED.	
7.					R RADIATION			VI AND THEIR	!	a. Tg	EE ATTACH	UALS WORKING IN OR FREQUENTING RESTRICTED AREAS.	
9.					SEE ATT			D		l		OGRAM. SEE ATTACHMENT E	
			NAGEMEN	J	SEE ATT			-		FE	EE CATEGORY	10 CFR 170 and Section 170.31) AMOUNT ENCLOSED \$	
13.	CER	TERCAT	ION. (Musi	be comple	ted by applican	# THE	PPLICAN	TUNDERSTA	NOS THAT	ALL STA	TEMENTS AND REPR	ESENTATIONS 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, 38, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR NOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1801 ACT OFJUNE 25, 1948 82 STAT. 740 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLIFULLY FALSE STATEMENT OR REPRESENTATION TO ANY ORDERATHERT OR REPRESENTATION TO ANY ORDERATHERT OR REPRESENTATION TO ANY ORDERATHERT OF REPRESENTATION TO ANY MATTER WITHIN ITS JURISDICTION.												
CER	CERTIFYING OFFICER - TYPEOPRINTED NAME AND TITLE SIGNATURE												
F.	REC) E.	PALM	ERTON	I, P.E.	, VI	CE P	RESIDE	NT		ful El	Velnut 2/5/08	
	FOR NRC USE ONLY												
TYP	E OF	FEE	FEE LO	G	FEE CATEGO			RECEIVED			COMMENTS		
					<u> </u>		\$		L		1		
APP	APPROVED BY DATE								DATE				
_	_	_		_			_					PONTED ON RECYCLED PAPER	

Application for Renewal to NRC Materials License #24-25998-01 Attachment Sheet A

Item 3: Addresses where licensed material will be used or possessed.

1. The licensed material, in it's sealed condition will be stored at our laboratories which are located as follows:

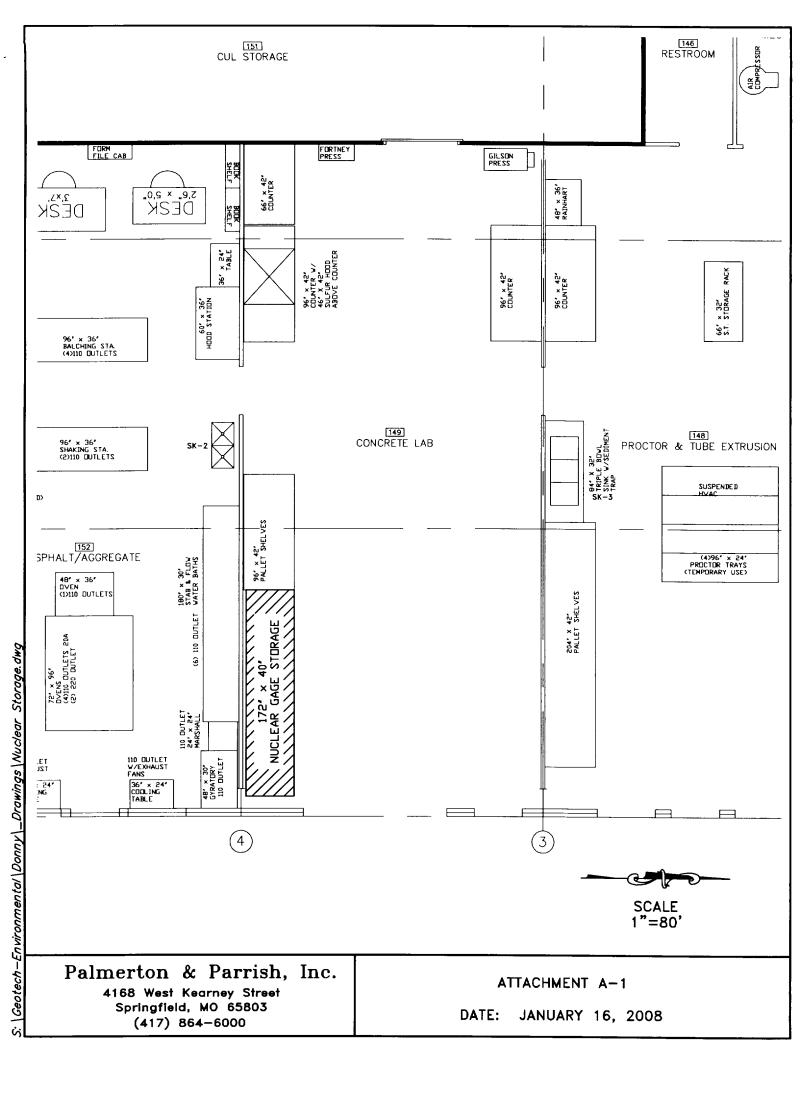
Palmerton & Parrish, Inc. (See Attachment A-1) 4168 W Kearney St Springfield, Missouri 65803

Palmerton & Parrish, Inc. (See Attachment A-2) 3500 E 13th Street Joplin, Missouri 64801

Palmerton & Parrish, Inc. (See Attachment A-3) 10,000 Highway 160 Walnut Shade, Missouri 65771

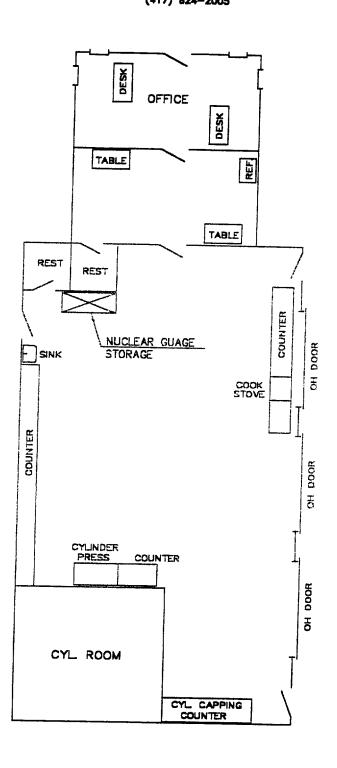
2. The devices will be used at temporary job sites in States subject to NRC's regulatory authority.

PALMERTON & PARRISH, INC. 4168 W Kearney St. Springfield, Missouri 65803 January 16, 2008



PALMERTON & PARRISH, INC. JOPLIN OFFICE

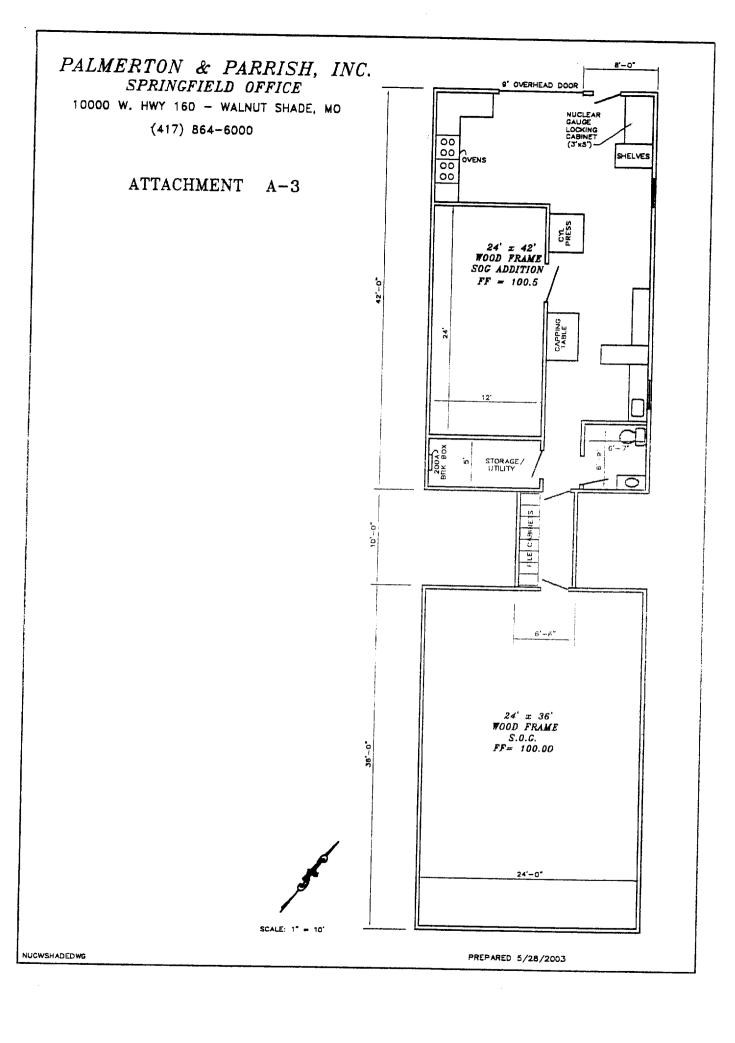
3416 EAST 13TH ST. - JOPLIN, MO. (417) 624-2005



ATTACHMENT A-2 5/28/2003

SCALE: 1" = 10"

NUCJOPDWG



Application for Renewal to NRC Materials License #24-25998-01 Attachment Sheet B

Item 5: Radioactive material to be possessed

	Byproduct	Chemical/Physical Form	Maximum Amount Per Source
1	Cesium-137	Sealed Source (Troxler Electronic Laboratories, Inc., Drawing No. A 102112)	Any one source not-to-exceed 10 millicuries
2	Americium-241	Sealed Source (Troxler Electronic Laboratories, Inc., Drawing No. A 102451)	Any one source not-to-exceed 50 millicuries
3	Cesium-137	Sealed Source (Humbolt Drawing No. 2200064)	Any one source not-to-exceed 11 millicuries
4	Americium-241	Sealed Source (Humbolt Drawing No. 2200067)	Any one source not-to-exceed 44 millicuries
5	Americium- 241	Sealed Source (Troxler Electronic Laboratories, Inc. Drawing No. 100608)	Any one source not-exceed 110 millicuries

PALMERTON & PARRISH, INC. 4168 W Kearney St. Springfield, Missouri 65803 January 16, 2008

Application for Renewal to NRC Materials License #24-25998-01 Attachment Sheet C

Item 6: Purpose for which Material Licenses will be used.

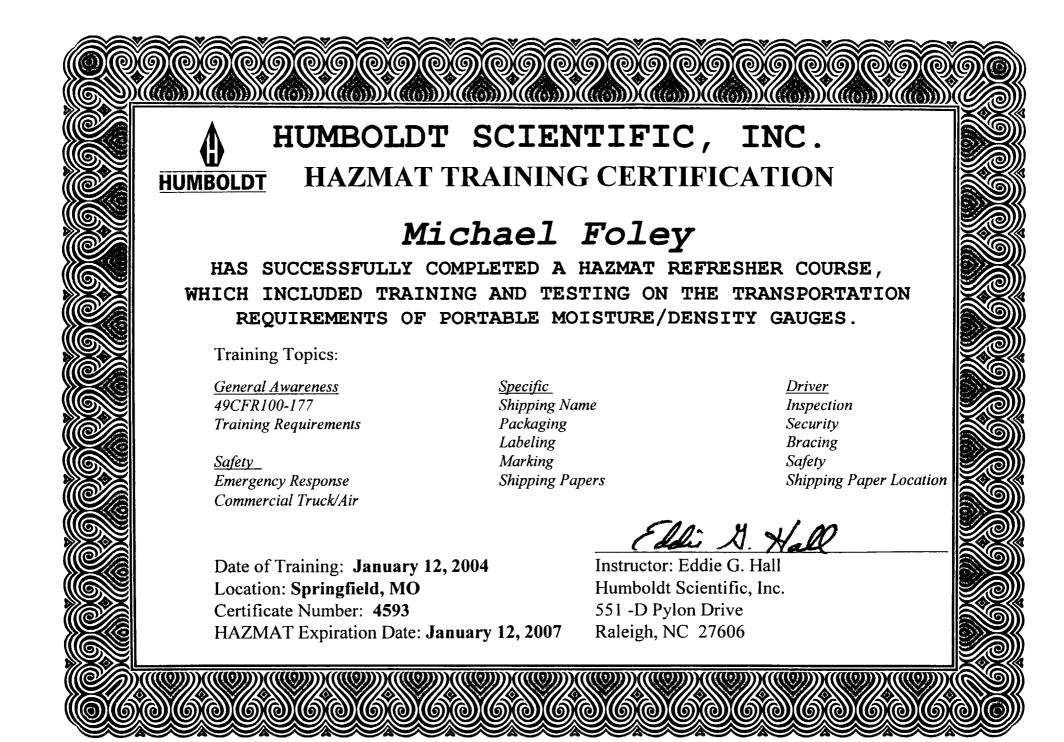
We use the various moisture-density gauges for measuring moisture and density of soil, asphalt, concrete, baserock and coal.

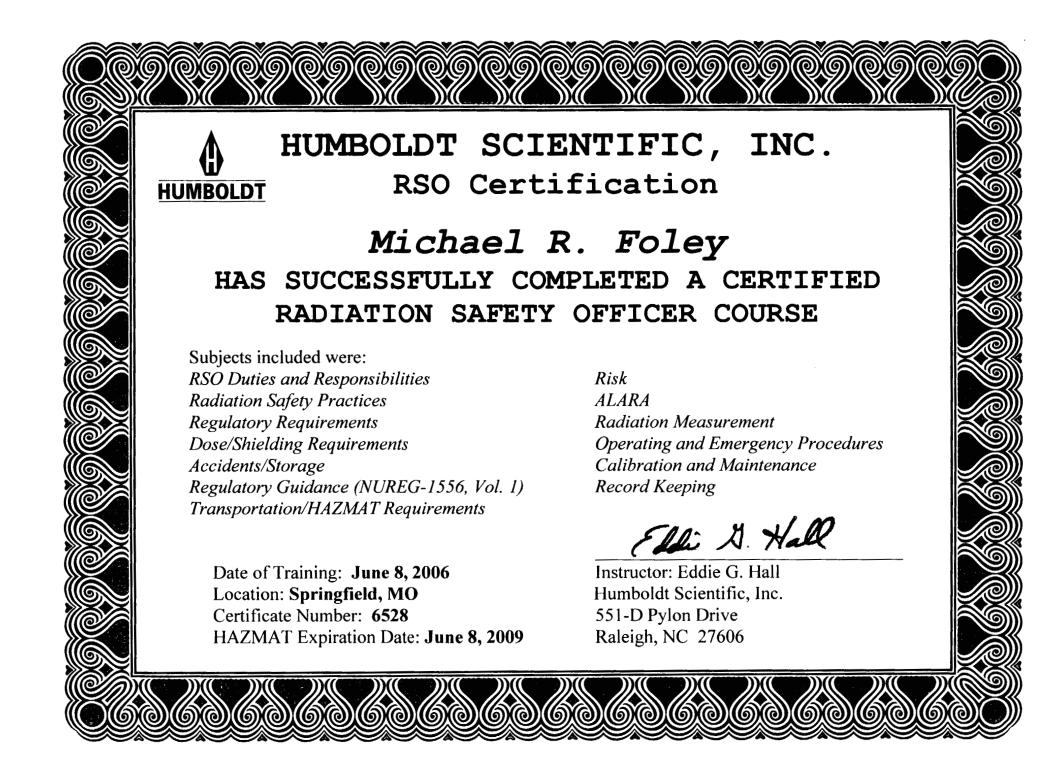
Item 7: Individuals responsible for Radiation Safety Program, their training and experience.

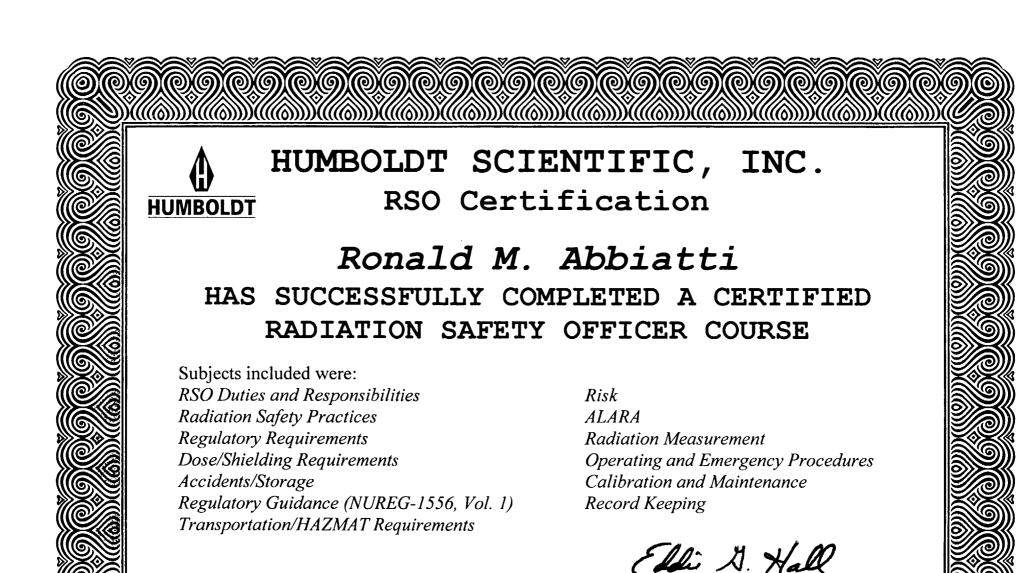
Our firm's Radiation Safety Program will be the responsibility of Michael R. Foley, the companies Radiation Safety Officer, Mr. Ronald M. Abbiatti will act as the Assistant RSO. Mr. Foley has completed the Basic Training Course on Radiation Safety and Use of Nuclear Soil Gauges given by Humbolt Scientific, Inc. SEE ATTACHED CERTIFICATES.

Both Mr. Abbiatti and Mr. Foley have attended and completed a one (1) day Radiation Safety Officer Training Class sponsored by Humbolt Scientific, Inc., held on June 8, 2006 in Springfield, Missouri.

PALMERTON & PARRISH, INC. 4168 W Kearney St. Springfield, Missouri 65803 January 16, 2008





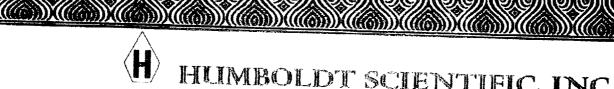


Date of Training: June 8, 2006 Location: Springfield, MO Certificate Number: 6527

HAZMAT Expiration Date: June 8, 2009

Instructor: Eddie G. Hall Humboldt Scientific, Inc.

551-D Pylon Drive Raleigh, NC 27606



HUMBOLDT SCIENTIFIC, INC.

Nuclear Gauge Training Certification

Ronald M. Abbiatti

HAS SUCCESSFULLY COMPLETED A CERTIFIED COURSE ON RADIATION SAFETY, TRANSPORT AND OPERATION OF INSTRUMENTS USING GAMMA AND NEUTRON RADIATION TO MEASURE THE PHYSICAL PROPERTIES OF CONSTRUCTION MATERIALS

Subjects included were:

Types and basic unit of ionizing radiation. Calculations related to radiation safety. Biological effects of radiation. Methods of protection. Leak testing procedures. Procedures for safe transport and storage. Federal and State Regulations.

Date of Training: May 11, 1999 Location: Springfield, MO

Certificate Number: 1753

Accident prevention and procedures. Instrument theory and operation. Limitations of field maintenance. Instrument standardization and calibration. Test site selection and preparation. Field operation and calculations. Types and reasons for measurement errors.

Si D. Hall Instructor: Eddie G. Hall Humboldt Scientific, Inc.

551-D Pylon Drive Raleigh, NC 27606

Application for Renewal to NRC Materials License #24-25998-01 Attachment Sheet D

Item 3: Training provided to other users.

Each employee of Palmerton & Parrish, Inc., will complete a device manufacturer's training program prior to being allowed to use the device. When employment ceases a record documenting the training of the individual employee will be maintained (from the date training is completed) for a period of five (5) years.

Item 9: Facilities and equipment.

We currently own seventeen (17) of these devices. Units are stored in locked cabinets in the Springfield, Joplin and Walnut Shade Laboratories when not in use. These cabinets are away from permanent work stations. When in transit or used on the job site, the device(s) is/are either kept under constant surveillance or are placed in a locked vehicle (away from the driver), a locked job office or a locked shed.

Application for Renewal to NRC Materials License #24-25998-01 Attachment Sheet E

Item 10: Radiation Safety Program

- 10.1 Personnel Monitoring Equipment: We are using a monitoring system operated by ICN Dosimetry Services, PO Box 20889, Fountain Valley, CA 92782-0889. All of our personnel who use these devices will be furnished Personal Badge Type 1.3 T.L.D. Michael Foley is responsible for sending these badges to ICN on a quarterly basis. They will maintain and furnish us will reports for each employee plus a control. Employees will be furnished the results of this testing on a regular basis.
- 10.2 Leak testing will be performed at six (6) month intervals by the Safety Officer using kits supplied by Troxler Electronic Laboratories, Inc. Leak tests are also performed when the units are sent for repair for calibration.
- 10.3 Maintenance: We <u>do not</u> perform any maintenance that requires removing the source from the devise or taking the out of the safe shielded position. All cleaning is performed with the source in a safe shielded position.
- 10.4 Transportation: Packaging and transporting of licensed material on commercial carriers will be carried out in strict accordance with DOT Regulations.
- 10.5 Emergency and Operating Procedures: Palmerton & Parrish, Inc., has prepared operating and emergency procedures for use of these devises. These procedures include a statement that all employees shall wear the personal dosimeters when using the machine, a description, (normally as supplied by the manufacturer) for the proper use and handling of the devise(s). Procedures for storage, transportation to and from work sites and emergency procedures including individuals to be notified are included. Emergency procedures and phone numbers are posted on the reverse side of the shipping papers for each of our devices.
- 10.6 Our emergency response contract after hours and at times we cannot be reached is:

Infotrac Chemical Emergency Response Center 200 North Palmetto St. Leesburg, FL USA 34748 1-800-535-5053

Application for Renewal to NRC Materials License #24-25998-01 Attachment Sheet F

Item 11: Waste Disposal

Disposal of any device containing licensed material will be by transfer of the devise and material to a licensed party specifically authorized to possess it. This would normally be via trade-in to a licensed moisture-density gauge manufacturer.



First Class Mail

PALMERTON & PARRISH, INC. 4166 WEST KEARNEY SPRINGFIELD, MO 65803 PHONE: (417) 864-6000 • FAX: (417) 864-6004

MATERIALS LICENSING SECTION US NUCLEAR REGULATORY COM REGION III 2443 WARRENVILLE RD STE 210 LISLE IL 60532