

MAY 28 1985

Catholic University of Puerto Rico
ATTN: Dr. Gabriel A. Infante
College of Sciences
Station No. 6
Ponce, Puerto Rico 00732

Gentlemen:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING A MATERIAL LICENSE APPLICATION, (REFERENCE: 18930; 030-28659)

This refers to your application dated April 26, 1985, for a license to possess and use a J. L. Shepherd Gamma Mark 1 Model 25 irradiator. Additional information is needed in support of your application.

Please provide the following information:

1. Experience of the individuals responsible for radiation safety. For Messrs. Infante, Correa, and Bonilla, we need to know their actual experience in irradiator use, the types of irradiators used, their locations, and the dates of use. Each of the individuals named in Item 6 of your application should have at least 40 hours of actual experience in the use of the irradiator specified in your application or similar type irradiator.
2. Training provided to other users. Individuals who will operate the irradiator under the supervision of a responsible individual (those specified in Item 6 of your application) do not need to be designated by name. Simply provide the following information:
 - A. An outline of the training program including the topics that will be covered and the time that will be spent on each topic. The following are examples of topics to be included in the training program:
 - (1) the principles and fundamentals of radiation safety and good safety practices related to the use of radioactive materials;
 - (2) the use of radiation detection instruments; and
 - (3) the design and operation of the irradiator. This training should be approximately 8 hours in length.

The training program should include an examination to test the understanding and knowledge of the individuals who have completed the training program. The examination should contain about 25 questions so that all aspects of the training program are covered.

- B. Copies of the examination, the correct answers, the passing grade, and a discussion of the additional instruction for individuals who are found to be deficient.

8507170133 850618
REQ LIC30
52913508-04 PDR

MAY 26 1985

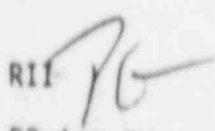
- C. A discussion of the on-the-job training that will be given to individuals. The training should consist of a minimum of 4 hours of on-the-job training in the actual operation and use of the irradiator. The on-the-job training should be conducted by a responsible individual specified in Item 6.
- D. The name of the course instructor. If this person is not a responsible individual specified in Item 6, submit this person's qualifications. The minimal qualifications for a course instructor should be the same as those of an individual specified in Item 6.
- E. A commitment that records documenting the training of each individual will be maintained.

Our review of your application will continue upon receipt of the above information. Please provide two copies of your reply and reference Mail Control Number 18930.


Sincerely,

Paul R. Guinn
Senior License Reviewer
Nuclear Materials Safety Section

RII


PGuinn:nw
5/18/85

RII


JPotter
5/28/85



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323
MAY 28 1985

Catholic University of Puerto Rico
ATTN: Dr. Gabriel A. Infante
College of Sciences
Station No. 6
Ponce, Puerto Rico 00732

Gentlemen:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING A MATERIAL LICENSE APPLICATION, (REFERENCE: 18930; 030-28659)

This refers to your application dated April 26, 1985, for a license to possess and use a J. L. Shepherd Gamma Mark 1 Model 25 irradiator. Additional information is needed in support of your application.

Please provide the following information:

1. Experience of the individuals responsible for radiation safety. For Messrs. Infante, Correa, and Bonilla, we need to know their actual experience in irradiator use, the types of irradiators used, their locations, and the dates of use. Each of the individuals named in Item 6 of your application should have at least 40 hours of actual experience in the use of the irradiator specified in your application or similar type irradiator.
2. Training provided to other users. Individuals who will operate the irradiator under the supervision of a responsible individual (those specified in Item 6 of your application) do not need to be designated by name. Simply provide the following information:
 - A. An outline of the training program including the topics that will be covered and the time that will be spent on each topic. The following are examples of topics to be included in the training program:
 - (1) the principles and fundamentals of radiation safety and good safety practices related to the use of radioactive materials;
 - (2) the use of radiation detection instruments; and
 - (3) the design and operation of the irradiator. This training should be approximately 8 hours in length.

The training program should include an examination to test the understanding and knowledge of the individuals who have completed the training program. The examination should contain about 25 questions so that all aspects of the training program are covered.

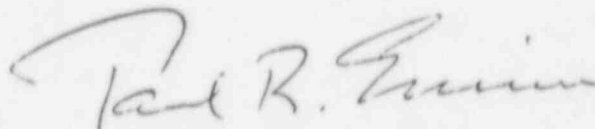
- B. Copies of the examination, the correct answers, the passing grade, and a discussion of the additional instruction for individuals who are found to be deficient.

MAY 26 1995

- C. A discussion of the on-the-job training that will be given to individuals. The training should consist of a minimum of 4 hours of on-the-job training in the actual operation and use of the irradiator. The on-the-job training should be conducted by a responsible individual specified in Item 6.
- D. The name of the course instructor. If this person is not a responsible individual specified in Item 6, submit this person's qualifications. The minimal qualifications for a course instructor should be the same as those of an individual specified in Item 6.
- E. A commitment that records documenting the training of each individual will be maintained.

Our review of your application will continue upon receipt of the above information. Please provide two copies of your reply and reference Mail Control Number 18930.

Sincerely,



Paul R. Guinn
Senior License Reviewer
Nuclear Materials Safety Section

JLS **SHEPHERD and Associates**
 740 SALEM ST.
 GLENDALE, CA 91203
 (213) 245-0187

PACKING SLIP

INVOICE NO. 85-057462

BILL
TO

UNIVERSIDAD CATOLICA DE PUERTO RICO
 DEPARTAMENTO DE COMPRAS
 AVENIDA LAS AMERICAS FRENTE al MUSEO
 de ARTE
 PONCE, PUERTO RICO 00732

SHIP
TO

Same as Bill to:
 ATTN: CAMPUS WAREHOUSE

DATE OF ORDER	SALESMAN	OUR ORDER NO.	TERMS	INVOICE DATE
10/8/84		MK2734	NET 30	5/29/85
CUSTOMER PURCHASE ORDER NO.	F.O.B.	SHIPPED VIA	DATE SHIPPED	PREPAID
8093		Ocean Freight		

QUANTITY ORDERED	QUANTITY SHIPPED	U/M	DESCRIPTION	PRICE	AMOUNT
			Shipment ready to be shipped, being held pending receipt of your Radioactive License.		
1	1	Ea.	J.L.Shepherd & Associates Mark I, Model 25, containing 7,000Ci of Cesium-137 Via Ocean Freight	74555.00	74,555.00
2	2	Ea.	Additional Test Tube Holders	250.00	500.00
2	2	Ea.	Additional Animal Chambers (Mice)	410.00	820.00
1	1	Ea.	Two-Speed Turn Table	130.00	130.00
1	1	Ea.	Six-Digit LED Preset Electronic Timer	1150.00	1150.00
			Total		\$77,155.00
	1	Ea.	DOT 20WC- Overpack, S.N. _____ for use in shipping above. WT: 1,500 lbs. VALUE: \$20,000.00. Please return promptly to us; PREPAID. List on Waybill: "Empty container for radioactive material, containing no residual radioactivity. NMFC 1000, Item 41070" for the appropriate freight rate. THANK YOU!!!!!!!!!!!! DEMURRAGE CHARGE - \$800.00 per month will be assessed beginning on the 31st day after shipment leaves our plant.		