

COLEGIO

DE CIENCIAS

PONTIFICIA UNIVERSIDAD CATÓLICA DE PUERTO RICO 2250 AVE LAS AMÉRICAS SUITE 565 PONCE PR 00717-9997



Tel. (787) 841-2000 Exts. 1530 - 1531 Fax. (787) 841-2000 Ext. 1545 ciencias@email.pucpr.edu

June 29, 2007

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555

SUBJECT: Reply to Notice of Violation Docket No. 03028659 License No. 52-13508-04

To the Honorable Commission:

Enclosed please find the reply to the Notice of Violation sent to Pontifical Catholic University of Puerto Rico (PCUPR) dated June 6th, 2007 under the referenced docket number.

PUCPR deeply appreciates your participation in the educational programs of our Institution and the activities authorized and licensed by the NRC. We hope this reply satisfies your request and remain at your service for any question regarding this matter.

Cordially yours,

armen & Ville Carmen L. Velázque

Dean College of Science

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c Regional Administrador Region I 475 Allendale Road King of Prussia, Pennsylvania 19406-1415

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REPLY TO NOTICE OF VIOLATION

Pontifical Catholic University of Puerto Rico Ponce, Puerto Rico EA 07-007 Docket No. 03028659 License No. 52-13508-04

A. Condition 13.A of License 52-1350804, in part, that the licensee's irradiator sealed source be tested for leakage and/or contamination at intervals no to exceed six months.

(1) **Reason for the violation**

After thoroughly reviewing our records we have not found evidence of leak and/or contamination tests conducted on the months of March 2003 and September 2004. Pontifical Catholic University of Puerto Rico (PCUPR) underwent changes in staff that might have contributed to this situation due to misinformation. This situation is a result of internal procedures and human error for which internal administrative procedures have been established to perform the tests at intervals not to exceed six months.

(2) Corrective steps taken

After the concern was identified by NRC Inspector in March 2006, leak test samples have been collected within six month intervals and sent for analysis to Wisconsin Radiological Laboratories, Inc. (US NRC License #48-26319-01).

For your information copy of results of analysis for May 2006, November 2006 and May 2007 are enclosed. None of the tests have shown any leaks.

(3) Corrective steps to be taken to avoid reoccurrence of violation

Leak/test samples will be collected in May and November every year and sent for analysis to Wisconsin Radiological Laboratories. Results will be kept for our records in an specific locked file.

Service contract of the consultant was amended to specifically establish that he is responsible for collecting leak test samples in May and November and sending them to Wisconsin Radiological Laboratories. PCUPR will monitor full compliance with the terms therein established.

(4) **Date when full compliance will be achieved** PCUPR is in full compliance since May 2006. B. Condition 13.E of License 52-13508-04, in part, that analysis of leak test samples be performed by persons specifically licensed by the NRC or an agreement state to perform such services

(1) Reason for the Violation

Leak tests for March 2004, May 2005 and November 2005 were performed by the University's physicist consultant, who previously had a license but did not renew it. The consultant did not inform that his license had not been renewed and that he was performing the leak tests on his own.

(2) Corrective Steps taken

After the inspection by NRC Inspector, leak test samples are collected by the consultant and sent to Wisconsin Radiological Laboratories, Inc (US NRC License No. 48-26319-01). This laboratory was recommended by NRC official.

(3) Corrective Steps that will be taken to avoid reoccurrence of violation

Service contract of the consultant was amended to specifically establish that he is responsible for collecting leak test samples in May and November and sending them to Wisconsin Radiological Laboratories. PCUPR will monitor full compliance with the terms therein established.

(4) Date when full compliance will be achieved

PCUPR is in full compliance since May 2006.

This reply shall not constitute an admission of the violations contained herein by any potential third party claims.



Wisconsin Radiological Laboratories, Inc.

521 N. Business Park Circle Stoughton, WI 53589

Phone: 608 - 877 - 0636 Fax: 608 - 877 - 0656

June 25, 2007

Prof. Carmen I. Asencio Pontifical Catholic University of Puerto Rico 2250 Las Americas, Suite 654 Ponce, Puerto Rico 00717-9997

This letter is to report the wipe test results taken from one or more of your gamma-emitting radioactive sealed sources taken on May 30, 2007. The sample analysis was performed on June 25, 2007 in a high efficiency sodium iodide well counter. Results were evaluated by comparison with standard sources whose activity is directly traceable to NIST standards. The sample indicated removable activity of less than 0.005 microCuric. All tests were performed under authorization of State of Wisconsin Agreement License #025-1356-01 issued to Wisconsin Radiological Laboratories (WRL). Tabular summaries of the test results are attached for your permanent records.

If you have any questions or require further assistance, please do not hesitate to call upon me at (608)877-0636.

Sincerely,

Lawrence McDonnell, Director, Laboratory Operations

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	46(05695	1035	JL	C\$	5/30/07	0.0	SMUA	2.41210	2.3142810		
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Phone: 608 - 877 - 0636 Fax: 608 - 877 - 0656

January 4, 2007

Prof. Carmen I. Asencio Pontifical Catholic University of Puerto Rico 2250 Las Americas, Suite 654 Ponce, Puerto Rico 00717-9997

This letter is to report the wipe test results taken from one or more of your gamma-emitting radioactive sealed sources taken on November 21, 2006. The sample analysis was performed on January 2, 2007 in a high efficiency sodium iodide well counter. Results were evaluated by comparison with standard sources whose activity is directly traceable to NIST standards. The sample indicated removable activity of less than 0.005 microCurie. All tests were performed under authorization of State of Wisconsin Agreement License #025-1356-01 issued to Wisconsin Radiological Laboratories (WRL). Tabular summaries of the test results are attached for your permanent records.

If you have any questions or require further assistance, please do not hesitate to call upon me at (608)877-0636.

Sincerely,

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Lawrence J. McDonnell, Director, Laboratory Operations

Catholic University of Puerto Rico

Prof. Carmen I. Asencio

Leak Test Results January 2, 2007

ORDER	NO: C051	04							
	TEST	SOURCE	MANI	F ISOTOPE	DATE	ACTIVITY	ACTIVITY	ERROR	MDA
	<i>NO</i> .	SERIAL #			WIPED	(DPM)	(uCi)	(uCi)	(uCi)
	05509	1035	JL	Cs ⁻¹³⁷	11/21/06	38.28	<mda< td=""><td>2.41x10⁻⁶</td><td>2.9142x10⁻⁵</td></mda<>	2.41x10 ⁻⁶	2.9142x10⁻⁵
		s	hepherd						

Comments: Results are reported as Net CPM (net counts per minute), Activity in disintigrations per minute (DPM) and in units of microcuries (uCi). The reported error is the two sigma statistical counting uncertainty, and the MDA is the minimum detectable amount of radioactivity that can be detected by the counting instrument and is reported in units of microcuries (uCi). All results below the MDA are reported as equal to the MDA.

Wisconsin Radiological Laboratories, Inc.

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State of Wisconsin Agreement License #025-1356-01

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Phone: 608 - 877 - 0636 Fax: 608 - 877 - 0656

May 11, 2006

Prof. Carmen I. Asencio Pontifical Catholic University of Puerto Rico 2250 Las Americas, Suite 654 Ponce, Puerto Rico 00717-9997

This letter is to report the wipe test results taken from one or more of your gamma-emitting radioactive sealed sources and on the wipes from the waste room floor taken on April 26, 2006. The sample analysis was performed on May 2, 2006 in a high efficiency sodium iodide well counter. Results were evaluated by comparison with standard sources whose activity is directly traceable to NIST standards. The sample indicated removable activity of less than 0.005 microCurie. All tests were performed under authorization of USNRC license 48-26319-01 issued to Wisconsin Radiological Laboratories (WRL). Tabular summaries of the test results are attached for your permanent records.

The waste room wipe analysis for the C^{14} and H^3 radionuclides was performed on May 11, 2006 in the above instrument and levels were found to be less than the detectable amount.

If you have any questions or require further assistance, please do not hesitate to call upon me at (608)877-0636.

Sincerely,

Laurence J. Mar Council

Lawrence J. McDonnell, Director, Laboratory Operations

Catholic University of Puerto Rico

Prof. Carmen I. Asencio

Leak Test Results May 2, 2006

ORDER NO: C05104

TEST	SOURCE	MANF ISOTOPE	DATE	ACTIVITY	ACTIVITY	ERROR	MDA
NO.	SERIAL #		WIPED	(DPM)	(uCi)	(uĊi)	(uCi)
05507	1035	JL Shepherd Cs-137	4/26/06	0.00	<mda< td=""><td>2.85x10⁻⁶</td><td>3.5203x10⁻⁵ Irrad. Plate</td></mda<>	2.85x10 ⁻⁶	3.5203x10 ⁻⁵ Irrad. Plate
05508	1035	JL Shepherd Cs-137	4/26/06	0.00	<mda< td=""><td>2.86x10⁻⁶</td><td>3.5203x10⁻⁵ Source Mech.</td></mda<>	2.86x10 ⁻⁶	3.5203x10 ⁻⁵ Source Mech.
05510	FE120	Wipe (Floor) Cs-137	4/26/06	0.00	<mda< td=""><td>2.86x10⁻⁶</td><td>3.5203x10⁻⁵</td></mda<>	2.86x10 ⁻⁶	3.5203x10 ⁻⁵
05511	FE120	Wipe (Floor) Cs-137	4/26/06	0.00	<mda< td=""><td>2.84x10⁻⁶</td><td>3.5203x10⁻⁵</td></mda<>	2.84x10 ⁻⁶	3.5203x10 ⁻⁵
05512	FE120	Wipe (Floor) Cs-137	4/26/06	10.17	<mda< td=""><td>2.88x10⁻⁶</td><td>3.5203x10⁻⁵</td></mda<>	2.88x10 ⁻⁶	3.5203x10⁻⁵

Comments: Results are reported as Net CPM (net counts per minute), Activity in disintigrations per minute (DPM) and in units of microcuries (uCi). The reported error is the two sigma statistical counting uncertainty, and the MDA is the minimum detectable amount of radioactivity that can be detected by the counting instrument and is reported in units of microcuries (uCi). All results below the MDA are reported as equal to the MDA.

Wisconsin Radiological Laboratories, Inc.

USNRC License # 48-26319-01