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DREXEL UNIVERSITY COLLEGE OF MEDICINE

FACSIMILE TRANSMISSION SHEET Office of Research Compliance New College Building, 2nd Floor, Room 2-105 245 N. 15th Street Mail Stop 444 Philadelphia, PA 19102-1192

> (Telephone 215-762-3453) (Fax 215-762-3722)

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TO:	NRC		
DEPARTMENT/ COMPANY			
FAX NUMBER:	(CI) 337	1-5241	
TEL. NUMBER:			·
FROM:	Kentha	mbert	
DEPARTMENT:	OFFICE O	F RESEARCH COMPLIANC	E
TEL. NUMBER:	215-762-34	<u>453</u>	
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Radiation Safety Office

'05 MAY -4 P1:26

May 2, 2005

VIA FACSIMILE (610-337-5241 & REGULAR MAIL U.S. Nuclear Regulatory Commission Region I 475 Allendale Road King of Prussia, PA 19406

Re: License No. 37-04594-11

Leaking Sealed Source Report

Dear Sir or Madam:

This is to report the incidence of and events surrounding a leaking sealed source. A nickel-63 plated source (Amersham model NCB23, serial number 9340BZ) containing 10 mCi activity on July 13, 2000 was tested for leakage as a part of the routinely performed semi-annual leak tests on April 28, 2005. The test revealed the presence of activity greater than 0.005 μ Ci of removable contamination. The source has been removed from service and placed in a sealed container awaiting final disposition (decontamination or disposal). The following provides additional detail associated with the incident.

On April 27, 2005, Radiation Safety Office staff observed the installation of the above referenced source into the mass spectrograph. The source was due for its semi-annual leak test, therefore, samples were taken and measured for removable contamination. Components of the electron capture device did not fit together; therefore, the installation was abandoned. The wipe tests were counted the evening of April 27, 2005 and recounted the morning of April 28, 2005 (to allow any chemoluminescence and/or photoluminescence to abate). The tests revealed the presence of $0.175 \ \mu$ Ci of removable contamination on the source housing.

Subsequent wipe tests were performed and contamination was found on the forceps used to manipulate the source (0.022 μ Ci) and the inside of vial in which the source had been stored (1.06 μ Ci). A direct wipe of the source with isopropyl alcohol wetted gauze resulted in removable activity in excess of the ability of the liquid scintillation counter to measure.

When viewed under an optical microscope, there appeared to be corrosion of the foil. A representative of the source manufacturer confirmed that these sources are subject to corrosion.

The source was not previously used; therefore, it remained in its original shipping vial until 4/27/05. The source was previously tested for leakage on 10/12/2004; no removable

contamination was found. Only the outside of the storage vial was wiped for this and other previously conducted leak tests.

Some minor (few thousand $dpm/100 \text{ cm}^2$) laboratory contamination was found during contamination surveys conducted upon discovery of the leaking source. The room and equipment has been decontaminated.

We plan to dispose of the source as radioactive waste. The source will be stored in a leak-proof container until it is disposed.

Other similar sources are currently mounted in mass spectrograph units. No contamination was detected around the units, including at the air exhausts. The sources and source housings will be tested for removable contamination the next time the unit is disassembled.

If you have any questions regarding this matter, please feel free to contact me.

Sincerely.

Kent Lambert, M.S., CHP Radiation Safety Officer

cc: Sreekant Murthy, Ph.D.