

RI - DNMS Licensee Event Report Disposition

Licensee: TEMPLE UNIVERSITY
 Event Description: Identification of Sealed Sources previously believed to be
 License No. 37 00697-31 Docket No. 030 02963 MLER-RI: 2005-73
 Event Date: 11-15-05 Report Date: 11-21-05 HQ Ops Event #:

1. REPORTING REQUIREMENT

<input type="checkbox"/>	10 CFR 20.1906 Package Contamination	<input type="checkbox"/>	10 CFR 30.50 Report
<input type="checkbox"/>	10 CFR 20.2201 Theft or Loss	<input type="checkbox"/>	10 CFR 35.3045 Medical Event
<input type="checkbox"/>	10 CFR 20.2203 30 Day Report	<input type="checkbox"/>	License Condition
<input checked="" type="checkbox"/>	Other <u>None</u>		

2. REGION I RESPONSE

<input type="checkbox"/>	Immediate Site Inspection	Inspector/Date	<u></u>
<input type="checkbox"/>	Special Inspection	Inspector/Date	<u></u>
<input type="checkbox"/>	Telephone Inquiry	Inspector/Date	<u></u>
<input type="checkbox"/>	Preliminary Notification/Report	<input type="checkbox"/>	Daily Report
<input checked="" type="checkbox"/>	Information Entered in RI Log	<input checked="" type="checkbox"/>	Review at Next Inspection
<input type="checkbox"/>	Report Referred To:		<u></u>

3. REPORT EVALUATION

<input checked="" type="checkbox"/>	Description of Event	<input checked="" type="checkbox"/>	Corrective Actions
<input checked="" type="checkbox"/>	Levels of RAM Involved	<input type="checkbox"/>	Calculations Adequate <u>- N/A</u>
<input checked="" type="checkbox"/>	Cause of Event	<input type="checkbox"/>	Additional Information Requested from Licensee <u>- N</u>

4. MANAGEMENT DIRECTIVE 8.3 EVALUATION - N/A

<input type="checkbox"/>	Release w/Exposure > Limits	<input type="checkbox"/>	Deliberate Misuse w/Exposure > Limits
<input type="checkbox"/>	Repeated Inadequate Control	<input type="checkbox"/>	Pkging Failure > 10 rads/hr or Contamination > 1000x Limits
<input type="checkbox"/>	Exposure 5x Limits	<input type="checkbox"/>	Large# Indivs w/Exp > Limits or Medical Deterministic Effects
<input type="checkbox"/>	Potential Fatality	<input type="checkbox"/>	Unique Circumstances or Safeguards Concerns
<input type="checkbox"/>	If any of the above are involved:	<input type="checkbox"/>	Considered Need for IIT
<input type="checkbox"/>	Considered Need for IIT	<input type="checkbox"/>	Considered Need for AIT
	Decision/Made By/Date:		<u></u>

5. MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only) - N/A

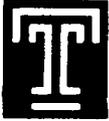
<input type="checkbox"/>	Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose)
<input type="checkbox"/>	Medical Consultant Used-Name of Consultant/Date of Report: <u></u>
<input type="checkbox"/>	Medical Consultant Determined Event Directly Contributed to Fatality
<input type="checkbox"/>	Device Failure with Possible Adverse Generic Implications
<input type="checkbox"/>	HQ or Contractor Support Required to Evaluate Consequences

6. SPECIAL INSTRUCTIONS OR COMMENTS

Non-Public
 Public-SISP REVIEW COMPLETE

Inspector Signature: *[Signature]* Date: 1-17-06
 Branch Chief Initials: *[Signature]* Date: 1/18/06

Location of File: G:\Reference\Blank Forms\LER FORM.wpd Rev. 02/25/05



TEMPLE UNIVERSITY
A Commonwealth University

Environmental Health and Radiation Safety

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Nov 28, 2005

Penny Lanzisera, Senior Health Physicist
Division of Nuclear Material Safety
U. S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415
Fax # 610-337-5269

RECEIVED
REGION 1
2005 NOV 29 PM 2:02

Re: Byproduct Materials License No. 37-00697-31

Dear Penny:

This is written description of the event that I reported to you on Nov 21, 2005.

Below is description of our survey and how we came across 17, Ir-192 and one Cs-137 sealed sources after our close up survey of the area.

Phase I – Removal of Lead Bricks to Build Shielded Area in New Storage Room (New Hot Lab)

On 11/15/05 the lead bricks surrounding the safe in the old storage room (old Hot Lab) were surveyed prior to transport to the new Hot Lab. No activity was detected on the bricks with a survey meter or by wipe testing.

Phase II – Relocation of Sealed Sources

On 11/16/05 the entire inventory of brachytherapy sources were removed from the old Hot Lab by the Chief Medical Physicist and Assistant Radiation Safety Officer. All 137-Cs, 90-Sr and 57-Co sources known to be present were inventoried and relocated to the new area. All 125-I and 192-Ir sources awaiting shipment back to the respective manufacturers were inventoried and possession was taken by the Assistant RSO and transported to EHRS.

Phase III – Survey After Source Removal of Old Hot Lab

On 11/17/05 the old Hot Lab was surveyed as part of final survey. During the survey a 137-Cs source, model number H-450 was found on the bench against a stack of lead bricks and plexiglass plates to the far left of the safe area. The following readings were measured from the source:

Ludlum Model 3 with NaI - 200 K cpm (bkg = 1400 cpm)
Victoreen 451 B – 1.23 mR/hr (bkg = 0.01 mR/hr)

Our waste disposal and source inventory records indicated that this source was disposed as waste on 9/28/93. Also, found during the survey were loose 192-Ir seeds under the tape on the base of the "L" block and imbedded in the working surface of the "L" block. 11 seeds were found. The following readings were measured from the working surface of the "L" block when the 1st seed was found which would represent the combined radiation levels from all of the seeds present:

Ludlum Model 3 with NaI - 100 K cpm (bkg = 1400 cpm)

Victoreen 451 B - 0.9 mR/hr (bkg = 0.01 mR/hr)

Prior to 1993 radiation oncology physicists were responsible for inventory of Ir-192 sources and shipping back to the manufacturer.

Additionally 6 seeds (4 in one piece of ribbon, 2 in another piece) were found in drawer number 32. The sealed source inventory and waste disposal records indicated that these sources were disposed on 9/28/93.

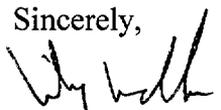
All sources (total of 17 Ir-192 seeds and 1 Cs-137 source) have been removed and relocated to the new Hot Lab area. After source removal, the final survey was performed. No activity or contamination was detected in the room, on surfaces of the room or on/in any items remaining in the room with a survey meter or by wipe testing. The sealed source inventory record was corrected to include the sources found during the survey. And record for sealed sources inventory had been corrected

Phase IV – Unwanted Lead Removal and Follow Up Survey

The lead "L" block along with other lead items present in the old hot lab that were not useful in the new Hot Lab were removed by Onyx on 11/22/05. A follow-up radiation survey was performed immediately afterwards – no activity was detected with a survey meter or by wipe testing.

Please feel free to contact me at (215) 707-7620 if you have any questions or need additional information.

Sincerely,



Lily Lodhi, Ph.D.

Director of Environmental Health and Safety
Radiation Safety Officer

cc: Howard Grant, Radiation Safety Committee