

NMED Item Number: 040819

Narrative:

Last Updated: 05/16/2006

The licensee reported the loss of four Amersham I-125 seeds (model 6711), each containing an activity of 12.2 MBq (0.33 mCi). A patient was implanted with 20 seeds at the base of the tongue. Orthogonal radiographs confirmed proper placement of 14 of the 20 seeds. Additional radiographs indicated the presence of two additional seeds, one in the patient's throat and another in his abdomen. The other four seeds could not be accounted for. A medical physicist returned to the operating room and performed another survey; however, the operating room had been thoroughly cleaned since the procedure. Surveys were performed in the corridor leading to the recovery room and in the patient's room. Additional surveys were performed in the simulator room and adjacent hallway in radiation oncology, the isolation room in surgery recovery, the patient's room, dirty linens, and the trash in the 3-South wing. The four seeds were not located. The licensee believes that the seeds were dislodged, digested, and excreted to the sewage system, or dislodged by coughing/sneezing and expelled from the patient in the operating or recovery room. The licensee is reviewing both the implant and survey procedures to determine if any changes are warranted.

Event Date: 09/15/2004 **Discovery Date:** 09/15/2004 **Report Date:** 10/13/2004

Licensee/Reporting Party Information:

Regulated By: NRC Reciprocity: NONE
 License Number: 13-02752-03 Name: INDIANA UNIVERSITY MEDICAL CENTER
 Docket Number: 03001609 City: INDIANAPOLIS
 Program Code: 02110 State: IN
 Responsible NRC Region: 3

Site of Event:

Site Name: INDIANAPOLIS State: IN

Additional Involved Party:

License Number: NA City: NA
 Name: NA State: NA

Other Information:

NRC Reportable Event: Y Abnormal Occurrence: N
 Agreement State Reportable Event: N Investigation: N
 Atomic Energy Act Material: Y Record Complete: Y
 Consultant Hired: N Event Closed by Region/State: Y

Event Cause:

LAS - LOST/ABANDONED/STOLEN
 Cause: MANAGEMENT DEFICIENCY

Corrective Actions Information:

LAS
Number: Corrective Action:
 1 PROCEDURE MODIFIED
 2 PERSONNEL RECEIVED ADDITIONAL TRAINING

Source/Radioactive Material Information:

LAS
 Source Number: 1
 Source/Material: SEALED SOURCE BRACHYTHERAPY Radionuclide: I-125
 Manufacturer: AMERSHAM Activity (Ci): 0.00033
 Model Number: 6711 Leak Test Results (uCi): NA

B-24

Serial Number:	NA		
LAS			
Source Number:	2		
Source/Material:	SEALED SOURCE BRACHYTHERAPY	Radionuclide:	I-125
Manufacturer:	AMERSHAM	Activity (Ci):	0.00033
Model Number:	6711	Leak Test Results (uCi):	NA
Serial Number:	NA		
LAS			
Source Number:	3		
Source/Material:	SEALED SOURCE BRACHYTHERAPY	Radionuclide:	I-125
Manufacturer:	AMERSHAM	Activity (Ci):	0.00033
Model Number:	6711	Leak Test Results (uCi):	NA
Serial Number:	NA		
LAS			
Source Number:	4		
Source/Material:	SEALED SOURCE BRACHYTHERAPY	Radionuclide:	I-125
Manufacturer:	AMERSHAM	Activity (Ci):	0.00033
Model Number:	6711	Leak Test Results (uCi):	NA
Serial Number:	NA		

Reporting Requirement Information:

LAS
 Reporting Requirement: 20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

Keywords:

LAS
 Keyword: MATERIAL LOST AND NOT FOUND

Reference Documents:

Reference Document Number:	Entry Date:	Retraction Date:	Type of Report:
ML043080433	11/19/2004		NRC LETTER
LTR041013	01/14/2005		LICENSEE REPORT
LTR050112	01/14/2005		NRC LETTER
LTR060510	05/16/2006		NRC LETTER