

**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  
Manufacturer: AMERSHAM  
Model Number: 6711

Radionuclide: I-125  
Activity (Ci): 0.00033  
Leak Test Results (uCi): NA

B-24

Serial Number: NA

LAS

Source Number: 2

Source/Material: SEALED SOURCE BRACHYTHERAPY

Manufacturer: AMERSHAM

Model Number: 6711

Serial Number: NA

LAS

Source Number: 3

Source/Material: SEALED SOURCE BRACHYTHERAPY

Manufacturer: AMERSHAM

Model Number: 6711

Serial Number: NA

LAS

Source Number: 4

Source/Material: SEALED SOURCE BRACHYTHERAPY

Manufacturer: AMERSHAM

Model Number: 6711

Serial Number: NA

Radionuclide: I-125

Activity (Ci): 0.00033

Leak Test Results (uCi): NA

Radionuclide: I-125

Activity (Ci): 0.00033

Leak Test Results (uCi): NA

Radionuclide: I-125

Activity (Ci): 0.00033

Leak Test Results (uCi): 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