INDIANA UNIVERSITY
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INDIANAPOLIS

June 2, 2006

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-4352

Re: Docket No. 030-01609, NRC License No. 13-02752-03

Dear Sir/Madam:

RADIATION
SAFETY OFFICE

Attached please find our response to your notice of apparent violation dated May 4, 2006. Should you have any additional questions, please do not hesitate to contact this office.

Sincerely,

Mack L. Richard, M.S., C.H.P.
Radiation Safety Officer

Attachments: 1

Cc: U.S.N.R.C. – Region III Office
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IE07

Response to An Apparent Violation
Inspection Report No. 030-1609/06-001(DNMS); EA-06-095

Reason for Apparent Violation

The written procedures that were in place to assure manual brachytherapy treatments were delivered in accordance with the written directive did not include specific procedures to assure that source applicators and source bucket carriers were of compatible lengths because the licensee was unaware that such incompatibility existed.

Corrective Steps Taken and Results Achieved

Several corrective steps have been taken to assure future medical events of this nature will not occur. Those steps are as follows:

1. The short source bucket carriers have been taken out of service and are now in the possession of the Radiation Safety Office.
2. A new set of source carriers and applicators were ordered and have been received from Best Industries.
3. The brachytherapy check sheet (used to assure treatment is delivered as planned) has been modified to include a specific check of source carrier bucket placement within the source applicator.
4. Source bucket carriers and the corresponding source applicators have been uniquely identified (i.e., color coded) to prevent mismatch in the future.
5. The written procedures required by 10 CFR 35.41 have been modified to specifically require that the compatibility of the source bucket carriers and applicators be verified from the radiographs of those devices after they have been inserted into the patient.

Date of Full Compliance

Steps 1, 2, 3, and 4 were implemented as of April 13, 2006. Step 5 was implemented April 19, 2006. Thus, full compliance was achieved as of those dates.