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NRC FORM 591X PART 1  
(11-2001) 10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<p>1. LICENSEE/CERTIFICATE HOLDER</p> <p>Location Inspected: multiple locations</p> <p><b>Indiana University School of Medicine Radiation Safety Office 541 Clinical Drive Indianapolis, IN 46202</b></p>	<p>2. REGIONAL OFFICE</p> <p><b>US NRC - Region III 2443 Warrenville Road Lisle, IL 60532</b></p>
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REPORT NUMBER(S) **2006-01**

<p>3 DOCKET NUMBER(S)</p> <p><b>030-09792</b></p>	<p>4. LICENSE/CERTIFICATE NUMBER(S)</p> <p><b>13-02752-08 (Oncology)</b></p>	<p>5 DATE(S) OF INSPECTION</p> <p><b>10/16-20/2006</b></p>
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<p>Inspection Procedures Used:</p> <p><b>87134</b></p>	<p>Inspection Focus Areas: <b>02.03 thru 02.11; 02.12e, 02.13 thru 02.14; 02.16 thru 02.19; and 02.21.</b></p>
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**LICENSEE/CERTIFICATE HOLDER:**  
The inspection was an examination of the activities conducted under your license/certificate as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license/certificate. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

1. Based on the inspection findings, no violations were identified.

2. Previous Violation(s) Closed

3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.



non-cited violation(s) were discussed involving the following requirement(s):

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4. During this inspection certain of your activities, as described in the attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

**STATEMENT OF CORRECTIVE ACTIONS**

I hereby state that, within 30 days, the actions described by me to the inspector and as described in the attachment will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

TITLE	PRINTED NAME	SIGNATURE	DATE
LICENSEE/ CERTIFICATE HOLDER	<b>Mack Richard, RSO</b>		
NRC INSPECTOR	<b>Darrel G. Wiedeman</b>		<b>10/20/2006</b>

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/CERTIFICATE HOLDER <b>Indiana School of Medicine</b>		2. REGIONAL OFFICE <b>Region III, Lisle, IL 60532</b>	
REPORT NUMBER(S) <b>2006-001</b>			
3. DOCKET NUMBER(S) <b>030-097092</b>		4. LICENSE/CERTIFICATE NUMBER(S) <b>13-02752-08 (Oncology Clinic)</b>	5. DATE(S) OF INSPECTION <b>10/16-20/ 2006</b>

Supplemental Inspection Information

Program Code(s): <b>02110</b>	Priority: <b>2</b>	Licensee Contact: <b>Mack Richard, RSO</b>	Telephone No. : <b>317-274-4797</b>
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- Main Office Inspection                      Next Inspection Date: **10/2008**
- Field Office **see the end of this report for locations inspected**
- Temporary Job Site Inspection **see the end of this report for locations inspected**

### Program Scope

This licensee is a State of Indiana owned and operated university. Currently the licensee has a student population of 30,280 students at the Indianapolis campus. The University Oncology Clinic, University Hospital, Riley Childrens Hospital and Wishard Memorial Hospital are located within the university complex. This inspection consisted of an in-depth review of the licensee's radiation oncology programs.

During this inspection the inspectors interviewed researchers, physicians, physicists, nuclear medicine technologists and observed licensed activities at the following university owned and operated facilities:

- Indiana University Hospital
- Riley Childrens Hospital
- Wishard Memorial Hospital
- University Radiation Oncology Clinic
- University of Indiana, Radiation Safety Office
- Clarion Pathology Building
- Emerson Hall
- Laboratory Animal Research Building

This license authorizes a teletherapy unit and a Gamma Knife. The clinic also has a High Dose Rate Remote Afterloader (HDR) that is covered under the broadscope license. The university Radiation Safety Committee has currently approved 24 users of the teletherapy unit and 18 users of the gamma knife. Both units were last leak tested in September 2006.

The inspectors also reviewed the licensee's actions in response to the Order for Increased Controls (ICs), EA-05-090, dated November 14, 2005. The results of the IC inspections are documented in NRC Report Nos. 03001609/2006-06 and 03009792/2006-02.

No violations of NRC requirements were identified during the routine portion of the inspection.