

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Indiana University Medical Center Radiation Safety Office 541 Clinical Drive Indianapolis, Indiana 46202-5111 REPORT NUMBER(S) 2009-001	2. NRC/REGIONAL OFFICE Region III U.S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532-4351
--	--

3. DOCKET NUMBER(S) 030-09792	4. LICENSEE NUMBER(S) 13-02752-08	5. DATE(S) OF INSPECTION April 20-24, 2009
----------------------------------	--------------------------------------	---

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. 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:

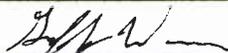
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

- 4. During this inspection certain of your activities, as described below and/or 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.
(Violations and Corrective Actions)

Licensee's Statement of Corrective Actions for Item 4, above.

I hereby state that, within 30 days, the actions described by me to the inspector 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'S REPRESENTATIVE			
NRC INSPECTOR	Geoffrey M. Warren		4/24/09

RF

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Indiana University Medical Center REPORT NUMBER(S) 2009-001		2. NRC/REGIONAL OFFICE NRC Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532-4351	
3. DOCKET NUMBER(S) 030-09792	4. LICENSE NUMBER(S) 13-02752-08	5. DATE(S) OF INSPECTION April 20-24, 2009	
6. INSPECTION PROCEDURES USED 87133		7. INSPECTION FOCUS AREAS 03.01 – 03.08	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02310	2. PRIORITY 2	3. LICENSEE CONTACT Mack L. Richard, M.S., RSO	4. TELEPHONE NUMBER 317-274-4797
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: April 2011	
<input type="checkbox"/> Field Office			
<input type="checkbox"/> Temporary Job Site Inspection			

PROGRAM SCOPE

The licensee was the Medical School of the University of Indiana, located in Indianapolis, Indiana. Under this license, the licensee operated a Gamma Stereotactic Radiosurgery (GSR) device and a teletherapy unit at the University Hospital Radiation Oncology service, as described on the license. The oncology service included seven oncologists, four physicists and dosimetrists, and several therapists. The therapists operated only the teletherapy unit; the physicists operated the GSR device. Other activities in radiation oncology were authorized by NRC License No. 13-02752-03.

The licensee treated approximately 100 patients annually using the GSR device and approximately 40 patients, given eight to eleven fractions each, annually with the teletherapy unit. The teletherapy unit was used only for total-body irradiations. Daily and monthly checks were performed as required for the GSR and teletherapy units.

Performance Observations

The inspector observed a teletherapy treatment, and licensee personnel demonstrated a GSR treatment and daily checks of the teletherapy and GSR units. In addition, licensee personnel explained treatment planning for both modalities. The inspector found no issues with the activities. The inspector reviewed written directives for GSR and teletherapy treatments and identified no concerns. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.