

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<b>1. LICENSEE/LOCATION INSPECTED:</b>  Indiana University-IUPUI Medical Center Campus 1120 W. Michigan Street Radiation Safety Room 159 Indianapolis, IN 46202-5111  REPORT NUMBER(S) 2018001		<b>2. NRC/REGIONAL OFFICE</b>  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
<b>3. DOCKET NUMBER(S)</b>  030-09792	<b>4. LICENSE NUMBER(S)</b>  13-02752-08	<b>5. DATE(S) OF INSPECTION</b>  May 21-25, 2018

**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:

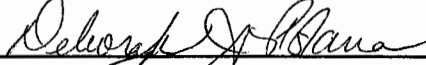
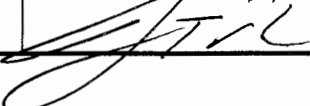
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is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

\_\_\_\_\_ Non-cited violation(s) were discussed involving the following requirement(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 in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

**Statement of Corrective Actions**

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	Deborah A. Piskura, Senior Health Physicist		5/25/18
BRANCH CHIEF	Aaron T. McCraw, Chief, MIB		6/8/18

**Docket File Information**

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6. INSPECTION PROCEDURES USED  87133 & 87134	7. INSPECTION FOCUS AREAS  03.01 - 03.07
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02240	2. PRIORITY  2	3. LICENSEE CONTACT  T. Michael Martin, Ph.D., CHP, RSO	4. TELEPHONE NUMBER  (317) 274-4797
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Main Office Inspection                      Next Inspection Date: May 25, 2020

Field Office Inspection    IU Health Methodist

Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was routine inspection of a large university medical center; the -08 license authorized the licensee to use cobalt-60 within a Leksell Perfexion GSR unit. The licensee utilized its GSR unit at least weekly to treat approximately 120+ patient cases annually. These patient treatments included AVMS, primary and metastatic tumors, and other brain disease. The licensee staffed the gamma knife department with three authorized gamma knife physicists (plus two physicists in training), four authorized users, two nurses, and six neurosurgeons.

The inspector interviewed licensee personnel, reviewed selected records ( training, sealed source leak tests, source output/full calibration, and maintenance/service reports), and toured the department. The inspector observed the licensee use the GSR unit for one patient treatment. The inspector reviewed the written directive and the treatment plan for the procedure. The inspector interviewed the RSO, the authorized medical physicists, the authorized user, the neurosurgeon, and the nurse who attended the patient. The inspector observed the operability of the patient viewing and communication systems. During the patient treatment, the inspector noted that authorized medical physicist and the authorized user, and the gamma knife nurse were physically present at the treatment console.

No violations of NRC requirements were identified during this inspection.