NRC FORM 591M PART 1
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE
Research Medical Center Midwest Gamma Knife Center 2316 E. Meyer Blvd. Kansas City, MO 64132 REPORT NUMBER(S) 2019001	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210 Lisle, IL 60532

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-33507	24-17998-02	February 6, 2019

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 violations(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	Zahid Sulaiman, Health Physicist	Zahid Sulaiman	2/26/19
BRANCH CHIEF	Aaron T. McCraw, Chief, MIB	for ATM	2/26/19

NRC FORM 591M PART 3
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information

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6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87133	03.01 - 03.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
02240	2	Robert Gilliam, RSO	(816) 276-4526

☑ Main Office Inspection Next Inspection Date: 02/05/2021

☐ Field Office Inspection

☐ Temporary Job Site Inspection

PROGRAM SCOPE

This was a routine, unannounced inspection of a Gamma Knife Center located in Kansas City, Missouri, with authorization to use byproduct materials under 10 CFR Sections 35.1000 (cobalt-60 sealed sources within a Icon gamma stereotactic radiosurgery (GSR) unit). The licensee performed approximately 79 GSR unit treatments annually. The licensee was staffed with two authorized medical physicists (AMPs), two oncologists, two dosimetrists, and four therapists. The licensee installed the new Elekta Gamma Knife Icon gamma stereotactic radiosurgery unit in May 2017.

Performance Observations:

The inspection consisted of interviews with select licensee personnel; a review of selected records; and a tour of the Gamma Knife department. The inspector had the AMP demonstrate the GSR unit's: (1) security; (2) daily spot checks; (3) full calibration measurements; (4) emergency equipment and procedures; (5) safety procedures and instructions; (6) door interlock system; and (7) radiation monitoring equipment checks. The inspector interviewed licensee personnel, and performed independent radiation measurements. The inspector reviewed selected written directives and treatment plans for the various GSR unit procedures. The inspector reviewed records for the new source exchange and shipment of the old sources back to the manufacturer on May 5, 2017.

The inspector reviewed and verified the licensee corrective action for a violation of 10 CFR 35.615(f)(3), failure to have an authorized user to be physically present throughout a patient treatment involving its GSR unit. As corrective action, licensee remodeled and renovated the treatment console area to accommodate the authorize user to be able to continue work and be physically present during the treatment. The inspector closed the violation.

No violations of NRC requirements were identified as a result of this inspection.