NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMMISSION									
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION									
1. LICENSEE/LOCATION	ON INSPECTED:		2. NRC/REGIONAL OFFICE						
Memorial Hospital			Region III						
615 North Michi			U. S. Nuclear Regulatory Commission						
South Bend, IN	_		2443 Warrenville Road, Suite 210						
	•		Lisle, IL 60532-4352						
REPORT NUMBER(S) 2014-001									
3. DOCKET NUMBER(S	3)	4. LICENSE NUMBI	ER(S)	5. DATE(S) OF INSPECTIO	N				
030-17335		13-18881-01		JULY 9-11.	2014				
LICENSEE:		·							
The inspection was a	an examination of the activities conduct	ed under your licer	nse as they relate to radiation safe	ety and to compliance with	the Nuclear				
	sion (NRC) rules and regulations and the esentative records, interviews with pers								
1. Based or	n the inspection findings, no violations v	vere identified.							
2. Previous	Previous violation(s) closed. IR 03017335/2012001 (DNMS)								
non-repe									
:	Non-cited violation(s) were discuss	sed involving the fo	llowing requirement(s):						
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,									
			•						
4. During th	is inspection, certain of your activities,	as described below	v and/or attached, were in violation	n of NRC requirements an	d are being				
	ccordance with NRC Enforcement Police	cy. This form is a N	IOTICE OF VIOLATION, which ma	ay be subject to posting in	accordance				
with 10 CFR 19.11. (Violations and Corrective Actions)									
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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	Andrew Bramnik / Ryan Craffey		AnduM B.	Dal Cohoan	7/11/14				
BRANCH CHIEF	Aaron McCraw		man y yman	, , , , ,	ale.lm				
DIVINOIT OFFICE			1///		1/21/14				

NRC FORM 591M PART 1 (07-2012)

NRC FORM 591M PART 3 (07-2012)	D	ocket File Info		CLEAR REGULATORY COMMISSION				
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCATION INSPECTI	ED:		2. NRC/REGIONAL OFFICE					
Memorial Hospital 615 North Michigan Stree South Bend, IN 46601			Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352					
REPORT NUMBER(S) 2014-(3. DOCKET NUMBER(S)	001	4. LICENSE NUMBER(S	5. DATE(S) OF INSPECTION					
030-17335		13-18881-01		July 9-11, 2014				
6. INSPECTION PROCEDURES USB 87131, 87132	ED	7. INSPECTION FOCUS AREAS All						
	SUPPLEM	ENTAL INSPECT	ION INFORMATION					
1. PROGRAM CODE(S) 02240	2. PRIORITY 2	3. LICENSEE CONTACT Dan Archambeault, MS - RSO 4. TELEPHONE NUMBER (574) 647-7956		4. TELEPHONE NUMBER (574) 647-7956				
✓ Main Office Inspection Next Inspection Date: July 2016								
Field Office Inspection South Bend, IN (Memorial Dr.); Miskawaka, IN								
Temporary Job Site Inspection								

PROGRAM SCOPE

This was a routine inspection of a 400-bed hospital authorized to use byproduct material for medical uses under 10 CFR 35.100, 35.200, 35.300, 35.400, 35.600 and 35.1000 at three locations on the licensee's South Bend, Indiana campus and at an off-site facility in Mishawaka, Indiana. At the primary location, seven nuclear medicine technologists conducted 10-15 diagnostic administrations daily, approximately half of which were stress tests, and 15-30 I-131 administrations monthly. The licensee had only performed one Y-90 SIR-spheres treatment since the last inspection. The radiation oncology department, also located at the primary location, had treated nine patients with the Ir-192 HDR and three patients with manual brachytherapy in 2013. In 2014, the licensee had treated only two and one patients, respectively. At the Mishawaka facility, one technologist conducted approximately 30-40 diagnostic administrations of F-18 monthly. The licensee had not conducted any principal activities at the Memorial Drive location since acquiring the practice in November 2013. The location was only used to store sealed sources included in the acquisition. A medical physics consultant conducted quarterly audits at all of the licensee's nuclear medicine departments individually.

PERFORMANCE OBSERVATIONS

The inspectors toured the licensee's main facility and two additional locations of use to evaluate established measures for materials security, hazard communication and exposure control. Independent and confirmatory surveys of these facilities found no readings indicative of residual contamination or exposures in excess of 10 CFR Part 20 dose limits. The inspectors observed the administration of the licensee's first therapeutic administration of Ra-223 radium dichloride "Xofigo" at the main facility and two administrations of F-18 at the Mishawaka location. The RSO demonstrated daily spot checks of the HDR unit and discussed procedures for full HDR calibrations and treatments. The RSO also discussed the licensee's protocols for manual brachytherapy. The inspectors discussed with various staff procedures for Y-90 treatments, lung ventilation studies, release criteria and inpatient precautions, receipt of packages containing radioactive material, waste handling, and surveys. The inspectors also reviewed a selection of licensee records, including procedures, quarterly audits, a variety of written directives (closing out a previous violation for 10 CFR 35.41(a) in the process), brachytherapy treatment plans, inventories and personnel dosimetry.

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