NRC FORM 591M PART 1 (10-2003)			U.S. NUCLEAR REGULATORY COMMISSION			
10 CER 2 201	SAFETY INSPE	CTION REPORT	AND COMP	LIANCE INSPECTION		
1. LICENSEE/LOCATION INS			2. NRC/REGIONAL C	OFFICE		
Deaconess Hospital 600 Mary Street			REGION III			
Evansville, Indiana 47747			US NUCLEAR REGULATORY COMMISSION 2443 WARRENVILLE ROAD, SUITE 210			
REPORT 2008-001			LISLE, ILLINOIS 60532			
3. DOCKET NUMBER(S)		4. LICENSEE NUMBER(S)	~~~~~	5. DATE(S) OF INSP	ECTION	
030-01580		13-00142-02		February 12-13, 20		
LICENSEE:						
Nuclear Regulatory Commof procedures and represent 1. Based on the in 2. Previous violation(s	nission (NRC) rules and entative records, intervi inspection findings, no v tion(s) closed.	d regulations and the concews with personnel, and conclusions were identified. I to you by the inspector as	litions of your licens observations by the i	te to radiation safety and to compliance e. The inspection consisted of selective inspector. The inspection findings are , are not being cited because they were	ve examinations as follows:	
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) v	vas/were discussed involvi	ng the following requ	sirement(s) and Corrective Action(s):	1	
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		y M. Warren	Defor	2-	2/13/08	

NRC FORM 591M PART 3 (10-2003) 10 CFR 2.201	Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION	U.S. NUCLEAR REGULATORY COMMISSION			
1. LICENSEE	2. NRC/REGIONAL OFFICE				
Deaconess Hospital REPORT NUMBER(S) 2008-00	Region III				
3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION			
030-01580	13-00142-02	February 12-13, 2008			
6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS	7. INSPECTION FOCUS AREAS			
87131, 87132	03.01 - 03.08; 03.01 - 03.08	03.01 - 03.08; 03.01 - 03.08			
	SUPPLEMENTAL INSPECTION INFORMATION	<u> </u>			
PROGRAM CODE(S) PRIORIT	Y 3. LICENSEE CONTACT	4. TELEPHONE NUMBER			
02230 2	Raymond Poston, Onco. Mgr., RSC	812-858-2266			
X Main Office Inspection	Next Inspection Date	re: Feb. 2010			
X Field Office Deacor	aconess Gateway Hosp., 4011 Gateway, Newburgh;				
Temporary Job Site	Chancellor Ctr. for Oncology, 4055 Gatewa	y, Newburgh			

PROGRAM SCOPE

The licensee operated two hospitals and an oncology center located in Evansville and Newburgh, Indiana, which served the southeastern corner of Indiana and surrounding areas in Kentucky and Illinois. Licensee was authorized to perform activities under Sections 35.100, 35.200, and 35.300, as well as a High Dose Rate (HDR) remote afterloader and a blood irradiator. Radiation Safety Committee meetings were held quarterly and had appropriate membership.

The licensee's facility in Evansville, Deaconess Hospital, was a 350-bed hospital, and operated a nuclear medicine department and a blood irradiator. The nuclear medicine department was staffed with five full-time technologists and one supplemental technologist. The staff typically administered 420 diagnostic doses monthly in the nuclear medicine area. Doses were primarily technetium-99m (Tc-99m) for cardiac, bone, and other studies. Doses were received as unit doses from a licensed radiopharmacy or prepared as kits from bulk technetium. The nuclear medicine staff also performed around 2-3 hyperthyroid treatments monthly, with iodine-131 in capsule form.

The licensee's second hospital was Deaconess Gateway Hospital in Newburgh. This hospital was a 117-bed hospital and included a diagnostic nuclear medicine department. While authorized to perform therapeutic nuclear medicine, no such procedures had been performed. The nuclear medicine department was staffed with 2 full-time technologists who typically administered 160 doses monthly. Doses were primarily Tc-99m for cardiac, lung, and other studies, received as unit doses from the radiopharmacy, or prepared as kits from bulk Tc-99m.

At the Chancellor Center for Oncology in Newburgh, the licensee operated an HDR unit. The oncology staff consisted of one oncologist, two dosimetrists, one physicist, and one therapist. Licensee staff typically performed around 5-10 HDR fractions monthly, primarily mammosite, lung, and GYN procedures.

This inspection was performed concurrent to an inspection of the licensee's implementation of the Increased Controls Order.

Performance Observations

The inspector observed one diagnostic administration of licensed material, including dose preparation and disposal, as well as package receipt surveys, including package wipes, and identified no issues with the activities. Licensee staff demonstrated HDR daily checks, survey meter and well counter QC, dose calibrator constancy checks, daily and weekly contamination surveys, and use of the blood irradiator. The inspector found no concerns with these activities. The inspector reviewed written directives for HDR treatments and radiopharmaceutical therapies and found no issues. Interviews with licensee staff indicated adequate knowledge of radiation safety procedures. Radiation surveys indicated radiation levels consistent with licensee records and postings.

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