NRC FORM 591M PART 1 (10-2003) 10 CFR 2 201			U.S. NUCLEAR REGULATORY COMMISSION			
SAFETY II	NSPECTION	REPORT AND CO	OMPLIANCE INSI	PECTION		
1. LICENSEE/LOCATION INSPECTED:			2. NRC/REGIONAL OFFICE			
north Kansas City Hospital north Kansas City, MO			U.S. Nuclear Regulatory Commission Region III			
north Kansas Edy, MO			2443 Warrenville Road Suite 210			
REPORT - A. O			Lisle, Illinois 60532-4351			
REPORT 3000 CO	50/	4. LICENSEE NUME	FR/SI	5. DATE(S) OF IN	ISDECTION	
030-13966	<i>-</i> ,	24-18628-0	` '	April 28, 20		
LICENSEE:		<u>∞ /- / 5 € α 5 €</u>		Mace ab, 20	0	
2. Previous violation(3. The violation(s), s	d of selective earinspector. The ection findings, no versions of the control of t	caminations of proced inspection findings a iolations were identified.	ures and representative as follows:	ve records, interviews to	with personnel,	
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	n(s) was/were discussed inv	olving the following requirer	ment(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)						
I hereby state that, within 30 da	ays, the actions des	s Statement of Correct	or will be taken to correct the	· violations identified. This st	atement 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		nted Name		nature	Date	
LICENSEE'S REPRESENTATIVE						
NRC INSPECTOR	Debora	ah A. Piskura	Delion	Allow.	4/28/08	
NHC FORM 591M PAR	1 1 (10-2003)		I MAUGUA	TO THE POLITY		

NRC FORM 591M PART 3 (10-2003) 10 CFR 2.201	Docket File Information	COMMISSION			
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION					
1. LICENSEE	2. NRC/REGIONAL OFFIC	E			
North Kansas City Hospital	Region III 2443 Warrenville Road, Suite 210				
REPORT 2008-001 NUMBER(S)		Lisle, IL 60532			
3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION			
030-13966	24-18628-01	April 28, 2008			
6. INSPECTION PROCEDURES USED 87130, 87131, 87132	7. INSPECTION FOCUS AREAS 03.01 - 03.08				
S	UPPLEMENTAL INSPECTION INFORMATION	ON			
PROGRAM CODE(S) 2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER			
02240 2	Kenneth W. Arnett, M.D. 816-691-2000				
X Main Office Inspection	Next Inspection	Next Inspection Date: April 2010			
X Field Office HDR suite 2790 Clay Edwards Drive, N KC, MO					
Temporary Job Site Inspection					

PROGRAM SCOPE

This licensee was a 450-bed hospital, authorized to use licensed material permitted by Sections 35.100, 35.200, 35.300, 35.400, 35.1000 Sr-90 IVB devices and Ir-192 in an HDR. The nuclear medicine department was staffed with seven full-time technologists who performed approximately 500-600+ diagnostic nuclear medicine procedures per month. Nuclear medicine activities were performed in two separate areas within the main hospital (diagnostic studies within the radiology department, and cardiac studies in the cardiac department). In addition, the hospital was authorized to perform cardiac imaging at a separate cardiac clinic within the hospital. The licensee received unit doses from a licensed radiopharmacy. The hospital performed a full spectrum of nuclear diagnostic imaging studies. Typically, in a year the hospital administered 20 iodine-131 thyroid carcinoma therapies and 20-25 hyperthyroidism treatments. The hospital obtained its I-131 in capsule form only. The department administered 1-2 Sr-89 and Sm-153 dosages annually for treatment of metastatic bone disease. Occasionally the department administered Bexxar and Zevalin treatments (1-2 cases annually). The licensee retained the services of a consulting physicist to audit the radiation safety program on a quarterly basis.

The radiation therapy activities were performed by two contract medical physicists and two in-house dosimetrists, and three authorized users. Brachytherapy activities included Pd-103 permanent implants (20-25 cases annually) and Cs-137/Ir-192 temporary gynecological implants (1-2 cases annually). Although the licensee was approved for 35.1000 material, the hospital transferred its IVB unit to the manufacturer for disposal. In October 2007, the hospital acquired its HDR unit. The licensee administered one course of mammosite treatment in March-April, 2008.

This inspection consisted of interviews with licensee personnel, a review of selected records, tours of the nuclear medicine and radiation oncology departments, and independent measurements. The inspector observed licensee nuclear medicine personnel prepare, assay and administer several unit doses for various imaging procedures. The inspection included observations of dose calibrator QA checks, package receipts and surveys, and area surveys. Certain safety features of the HDR unit/room could not be observed during the inspection because the AMP was not present.