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10 CFR 2.201	SAFETY	NSPECTION RE	PORT AND COM		CTION
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1. LICENSEE/LOCATION INSPECTED: Capital Region Medical Center 1125 Madison Jefferson City, Missouri 65102 REPORT NUMBER(S): 2011-001			2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532		
3. DOCKET NUMBER(030-02375	S)	4. LICENSEE NUMBER 24-12699-01	(S)	5. DATE(S) O July 13	FINSPECTION
LICENSEE:					,
Regulatory Commission representative records, 1. Based or 2. Previous 3. The viola self-iden Policy, N	(IRC) rules and regulation interviews with personnel, a the inspection findings, violation(s) closed. tion(s), specifically desci ified, non-repetitive, and UREG-1600, to exercise Non-cited violation(s)	ribed to you by the ins corrective action was discretion, were satis	pector as non-cited vio or is being taken, and fied ving the following requi	lations, are not being the remaining criteria rement(s):	cited because they value of the NRC Enforce
with 10 C	ents and are being cited FR 19.11	. I his form is a NOTIC	E OF VIOLATION, wh	icn may be subject to	posting in accordance
		Statement of	Correctivo Actiona		
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I hereby state that, with corrective actions is m date when full complian Title LICENSEE'S REPRESENTATIVE NRC INSPECTOR	in 30 days, the actions de ade in accordance with th nce will be achieved). I un Pr	Statement of escribed by me to the in e requirements of 10 CI derstand that no further inted Name	Corrective Actions spector will be taken to FR 2.201 (corrective step r written response to NR	correct the violations i s already taken, correc C will be required, unle Signature	dentified. This statem ctive steps which will ess specifically reques Date

NRC FORM 591 M PART 3 (06-2010) 10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Capital Region Medical Center Jefferson City, MO REPORT NUMBER(S) 2011-001		2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532					
3. DOCKET NUMBER(S) 030-02375		4. LICENSEE NUMBER(S) 24-12699-01		5. DATE(S) OF INSPECTION July 13 – 14, 2011			
6. INSPECTION PROCEDURES 87131, 87132		7. INSPECTION FOCUS AREAS 03.01 - 03.08; 03.01 - 03.08					
SUPPLEMENTAL INSPECTION INFORMATION							
1.program 02120	2. PRIORITY 3	3. LICENSEE CONTACT Kenneth L. Andrews, M.S., RSO		4. TELEPHONE NUMBER 573-632-5286			
Main Office	Next Inspection Date: July 2014						
Field Office	e Inspection						
Temporary Job Site Inspection							

The licensee was a 100-bed hospital located in Jefferson City, Missouri, with authorization to use byproduct materials in Sections 35.100, 35.200, 35.300, and 35.400. Licensed activities were conducted only at the facility identified on the license.

The nuclear medicine department was staffed with three full-time nuclear medicine technologists and two part-time technologists, as well as students from the University of Missouri. The licensee's nuclear medicine staff typically administered 300 diagnostic doses monthly and 20 therapy doses annually. The diagnostic procedures were predominately technetium-99m and thallium-201 cardiac, bone, and lung imaging. Therapy doses included iodine-131 and samarium-153 doses, with iodine only in capsule form. The department received daily unit doses and bulk technetium-99m from a licensed nuclear pharmacy. All waste was either held for decay-in-storage (DIS) or returned to the radiopharmacy.

Missouri Cancer Associates (MCA) performed prostate implant procedures at the hospital under the hospital's license. One oncologist and two dosimetrists were involved in these procedures, performing approximately five to six implants annually with iodine-125 and palladium-103 seeds. No such procedures had been performed since 2010. MCA maintained patient records, including written directives, treatment plans, and post plans at their facility at 1600 E. Broadway, Columbia, MO, but hospital nuclear medicine staff maintained package receipt and room survey records, as well as copies of the written directives.

Performance Observations

The inspector observed three diagnostic administrations of licensed material, including dose preparation and disposal. Licensee personnel demonstrated dose calibrator constancy, well counter and survey meter QC, and daily and weekly contamination surveys, and described a variety of diagnostic and therapeutic administrations. The inspector noted no concerns with these activities. The inspector reviewed written directives for radiopharmaceutical therapies and written directives, treatment plans, and post plans for seed implants, and identified no concerns. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.