U.S. NUCLEAR REGULATORY COMMISSION (07-2012) 10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION										
1. LICENSEE/LOCATI	ON INSPECTED:		2. NRC/REGIONAL OFFICE							
SSM Health De	Paul Hospital - St. Louis	Region III								
12303 DePaul Dr.			U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210							
Bridgeton, MO 63044			Lisle, IL 60532							
REPORT NUMBER(S) 2019001										
3. DOCKET NUMBER(	S)	4. LICENSE NUMBER	R(S)	5. DATE(S) OF INSPECTION						
030-02308		24-02490-03	August 13 \$14,20		19					
Regulatory Commis procedures and rep	an examination of the activities conduct sion (NRC) rules and regulations and th resentative records, interviews with person n the inspection findings, no violations v	e conditions of your sonnel, and observat	license. The inspection consist	ed of selective examination	s of					
3. The viol										
	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):									
cited in with 10	his inspection, certain of your activities, accordance with NRC Enforcement Poli CFR 19.11. ns and Corrective Actions)		DTICE OF VIOLATION, which m			•				
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,										
	pliance will be achieved). I understand									
TITLE	PRINTED NAME		SIGNATURE		DATE					
LICENSEE'S REPRESENTATIVE										
NRC INSPECTOR	Zahid Sulaiman, Health Physici	st	Zahid Jula	imen	8/14/	10				
BRANCH CHIEF	Aaron T. McCraw, Chief, MIB		ATIL		96/19					
NRC FORM 591M PART 1 (07-2012)										

NRC FORM 591M PART 3			U.S. NU	CLEAR REGULATORY COMMISSION					
(07-2012) Docket File Information									
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION									
1. LICENSEE/LOCATION INSPECTE	ED:		2. NRC/REGIONAL OFFICE						
SSM Health DePaul Hosp	ital - St. Louis		Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210 Lisle, IL 60532						
12303 DePaul Dr. Bridgeton, MO 63044									
REPORT NUMBER(S) 20190	01								
3. DOCKET NUMBER(S)		4. LICENSE NUMBER	5)	5. DATE(S) OF INSPECTION					
030-02308		24-02490-03		August 13 - 14, 2019					
6. INSPECTION PROCEDURES USED 87131, 87132		7. INSPECTION FOCUS AREAS 03.01 - 03.07							
	SUPPLEM								
1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTAC		4. TELEPHONE NUMBER					
02230	2	Wallace O, Fuhr	man, RSO	(636) 496-2858					
Main Office Inspec	ction	Next Inspection	Date: 08/13/20	21					
✓ Field Office Inspect	tion St. Joseph Ho	ospital, Lake St. Lo	ouis, MO						
Temporary Job Sit	e Inspection								
		PROGRAM S	COPE						
This was a routine inspection of a 400-bed hospital, authorized under NRC license to use byproduct materials for medical uses permitted by 10 CFR 35.100, 35.200, 35.300, 35.400, and 35.600. The nuclear medicine department was staffed with three full-time and four PRN nuclear medicine technologists (NMTs) who performed approximately 240 diagnostic nuclear medicine procedures monthly. The licensee also performed approximately 3 radium-223 Xofigo and 50-70 iodine-131 (capsules form) therapeutic procedures annually.									
The radiation oncology department at the main hospital was staffed with an oncologist, two dosimetrists, and an authorized medical physicist (AMP) who performed approximately 5 iodine-131 thyroid ablations and 10 high dose rate brachytherapy (HDR), mostly gynecological cancer treatments annually. The St. Joseph Hospital cancer care center was staffed with 2 oncologists, a dosimetrist, and an AMP who performed approximately 30-40 iodine-125 (I-125) prostate seed implants annually. Performance Observations:									
This inspection consisted of interviews with select licensee's staff and management and tours of the nuclear medicine, radiation oncology department, and cancer care center. The inspector observed preparation and administration of technetium-99 diagnostic doses to two patients. At the cancer care center, the inspector observed a I-125 prostate seed implant procedure performed by an authorized user using an approved pre-treatment plan, with no issues noted. The inspector: (1) observed the NMT conduct a physical inventory of sealed sources and all sources were accounted for; and (2) had the NMT demonstrated the dose calibrator constancy check, package receiving and check-in procedures, the end of the day daily and weekly area surveys, and proper handling of radioactive waste and disposal procedures. At the oncology department, the inspector had the AMP demonstrate the HDR unit's: (1) security, (2) daily spot checks, (3) emergency equipment and procedures, (4) safety procedures and instructions, (5) door interlock system, and (6) radiation monitoring equipment checks.									
NRC FORM 591M PART 3 (07-201)	2)								

NRC FORM 591M PART 2 (07-2012)							
10 CFR 2.201 SAFETY INSPECTION	SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION						
1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE						
SSM Health DePaul Hospital - St. Louis	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210 Lisle, IL 60532						
12303 DePaul Dr. Bridgeton, MO 63044							
REPORT NUMBER(S) 2019001							
3. DOCKET NUMBER(S)	4. LICENSE NUMBER		5. DATE(S) OF INSPECTION				
030-02308 24-02490-03			August 13 - 14, 2019				

## (Continued)

The inspector reviewed written directives and treatment plans for various brachytherapy and radiation therapy procedures. Interviews with licensee personnel indicated adequate knowledge of radiation safety, emergency procedures, and NRC regulations.

The inspector reviewed the following records: RSC minutes, quarterly program audits, package receipts, waste disposal records, radiation safety and DOT Hazmat training, linearity and accuracy of the dose calibrator, instrument calibration, sealed source leak tests, daily area surveys, and weekly wipe tests.

The inspector also reviewed dosimetry records for 2018 and through June 30, 2019, indicating the maximum annual dose to be 789 mrem DDE, and 723mrem-SDE. The inspector conducted independent and confirmatory radiation surveys and found no residual contamination or exposures to members of the public in excess of regulatory limits.

No violations of NRC requirements were identified during this inspection.