U.S. NUCLEAR REGULATORY COMMISSION (07-2012) 10 CFR 2,201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCATION INSPECTED: 2. NRC/REGIONAL OFFICE								
Lakeland Medical Center, St. Joseph 1234 Napier Avenue St. Joseph, Michigan 49085			Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352					
3. DOCKET NUMBER(S)		4. LICENSE NUMBE	S) 5. DATE(S) OF INSPECTION		ΓΙΟΝ			
030-02049		21-04177-01		Nov. 28-29	2016 1, <del>2018</del> 600			
LICENSEE: The inspection was a Regulatory Commiss procedures and repro- 1. Based or 2. Previous 3. The viola non-reperdiscretion	ICENSEE: he inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear egulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of rocedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows: 1. Based on the inspection findings, no violations were identified. 2. Previous violation(s) closed. 3. The violations(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, 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):							
4. During thi cited in ad with 10 C (Violation	is inspection, certain of your activities, a ccordance with NRC Enforcement Polic FR 19.11. s and Corrective Actions)	as described below y. This form is a No	and/or attached, were in violatior OTICE OF VIOLATION, which ma	n of NRC requirements ay be subject to posting	and are being in accordance			
Statement of Corrective Actions I here by 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			
LICEN SEE'S REPRESENTATIVE	Mary Ann Pate	r /	MAPAtor		11 29/16			
NRC INSPECTOR	Geoffrey M. Warren		MM-		11/24/16			
BRANCH CHIEF	Aaron T. McCraw		AIN_		12/21/16			

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NRC FORM 591M PART 1 (07-2012)

NRC FORM 591M PART 3 (07-2012) 10 CFR 2.201		Docket File Info	u. D <b>rmation</b>	S. NUCLEAR REGULATORY COMMISSION			
SAF	ETY INSPECT	ION REPORT AND	D COMPLIANCE	INSPECTION			
1. LICENSEE/LOCATION INSPE	CTED:		2. NRC/REGIONAL OFFICE				
Lakeland Medical Center, St. Joseph			Region III				
1234 Napier Avenue			U.S. Nuclear Re	U. S. Nuclear Regulatory Commission			
St. Joseph, Michigan 49085			2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352				
REPORT NUMBER(S) 201	6001						
3. DOCKET NUMBER(S)	3. DOCKET NUMBER(S)		S)	5. DATE(S) OF INSPECTION			
030-02049		21-04177-01		November 28-29, 2016			
6. INSPECTION PROCEDURES	USED	7. INSPECTION FOCU	7. INSPECTION FOCUS AREAS				
87131, 87132		03.01 - 03.09; 03.01 - 03.09					
	SUPP	LEMENTAL INSPECT	ION INFORMATIO	N			
1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTAC	3. LICENSEE CONTACT 4. TELEPHONE NUMBER				
02230	2	David E. Sieffer	t, M.S., RSO	(269) 985-4593			
✓ Main Office Insp	ection	Next Inspection	Next Inspection Date: Nov. 2018				
Field Office Insp	ection						
Temporary Job	Site Inspection	• ·					
PROGRAM SCOPE							
This was a routine, unannounced inspection. The licensee was a 200-bed hospital located in St. Joseph, Michigan, with authorization to use byproduct materials in Sections 35.100, 35.200, 35.300, and 35.400, as well as iridium-192 in a high dose rate remote afterloader (HDR) system. Licensed activities were conducted only at the facilities identified on the license. The nuclear medicine department was staffed with two full-time and two part-time nuclear medicine technologists, who typically administered 200 diagnostic doses monthly, 2-3 iodine-131 therapy procedures monthly, and occasional radium-223 chloride therapy procedures. The diagnostic procedures included a variety of imaging and uptake procedures using technetium-99m and xenon-133. Diagnostic doses were received as unit doses or prepared from bulk technetium-99m from a licensed radiopharmacy. Iodine-131 doses were received as capsules only. All waste was either held for decay-in-storage (DIS) or returned to the radiopharmacy.							
The radiation therapy department was staffed with two physician authorized users, two medical physicists, and five therapists involved with NRC-licensed activities. The radiation therapy staff performed approximately 50 HDR fractions and 1-3 iodine-125 permanent prostate seed implants annually. One cesium-137 temporary implant was performed since the previous inspection, but the seeds had been disposed to an authorized waste broker soon before this inspection. The licensee was waiting for confirmation of receipt of the cesium seeds before requesting their removal from this license.							
Performance Observations: The inspector observed preparation and disposal of a diagnostic dose, and package receipt surveys and wipes. Licensee personnel demonstrated daily checks in nuclear medicine and HDR, administration of diagnostic and therapeutic doses, and daily and weekly contamination surveys, and described HDR and seed implant procedures, inventory and audit procedures, and others. The inspector noted no concerns with these activities. The inspector reviewed written directives for radiopharmaceutical therapies, HDR treatments, and brachytherapy procedures, and identified no concerns. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. Review of dosimetry records indicated no exposures of concern. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings. No violations of NRC requirements were identified as a result of this inspection.							