

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Cass Regional Medical Center  
Radiology Services  
2800 Rock Haven Rd.  
Harrisonville, MO 64701

REPORT NUMBER(S) 2021001

## 2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

## 3. DOCKET NUMBER(S)

030-29723

## 4. LICENSE NUMBER(S)

24-20234-02

## 5. DATE(S) OF INSPECTION

June 29, 2021

## LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures 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 violation(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 this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

## Statement of Corrective Actions

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	Zahid Sulaiman, Health Physicist	Zahid M. Sulaiman	Digitally signed by Zahid M. Sulaiman Date: 2021.07.02 13:32:05 -05'00'
BRANCH CHIEF	Michael Kunowski, Chief, MIB	Michael A. Kunowski	Digitally signed by Michael A. Kunowski Date: 2021.07.06 08:31:14 -05'00'



## Materials Inspection Record

1. Licensee Name: Cass Regional Medical Center		2. Docket Number(s): 030-29723		3. License Number(s) 24-20234-02	
4. Report Number(s): 2021001			5. Date(s) of Inspection: June 29, 2021		
6. Inspector(s): Zahid Sulaiman, Health Physicist		7. Program Code(s): 2120		8. Priority: 3	9. Inspection Guidance Used: 87131
10. Licensee Contact Name(s): Julie German, Dir of Radiology		11. Licensee E-mail Address: jgerman@cassregional.org		12. Licensee Telephone Number(s): (816) 887-0338	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Non-Routine <input type="checkbox"/> Initial <input type="checkbox"/> Unannounced		14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input checked="" type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 06/29/2024 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

## 16. Scope and Observations:

This was an announced remote routine inspection of a regional hospital authorized to use byproduct materials for medical purposes permitted by 10 CFR 35.100, 35.200, and 35.300. The nuclear medicine department was staffed with a full-time and a part-time nuclear medicine technologists (NMTs), who performed approximately 50 diagnostic doses monthly. The diagnostic administrations included a variety of imaging procedures using technetium-99m (Tc-99m), primarily cardiac stress test, bone scans, biliary, gastric emptying, and lung scan using DTPA. The licensee had not performed any diagnostic study or therapy procedure permitted by 10 CFR 35.300 since the last inspection.

## PERFORMANCE OBSERVATIONS

This inspection was conducted virtually through the Microsoft Team meeting, and consisted of interview with select licensee personnel, a review of select records, and an observation of security of the materials. Through Microsoft Team, the inspector observed the NMT conduct a physical inventory of sealed sources, and all sources were accounted for. The inspector had the NMT demonstrate and discuss the dose calibrator constancy check, package receipt procedures, the end of the day daily and weekly area surveys, proper handling of radioactive waste and disposal procedures, with no issue noted. Through these demonstrations and other discussion, the inspector found that the licensee personnel was knowledgeable of radiation protection principles, licensee procedures, and regulatory requirements.

The inspector reviewed the following records: radiation safety committee minutes, quarterly program audits, package receipts, waste disposal records, radiation safety and DOT Hazmat training, instrument calibration, sealed source leak tests and inventory, daily area surveys, and weekly wipe tests. The inspector reviewed dosimetry records for 2019 through January 9, 2021, indicating the maximum annual dose to be 175 mrem - DDE, and 1,310 mrem - SDE.

No violations of NRC requirements were identified as a result of this inspection.