NRC FORM 592M
(10-2020)

U.S. NUCLEAR REGULATORY COMMISSION

Materials Inspection Record

1. Licensee Name:	2. Docket Number(s):	3. License Number(s)
Centerpoint Medical Center	030-13994	24-18655-01

4. Report Number(s):	5. Date(s) of Inspection:
2022001	May 18, 2022, with in-office review through July 29, 2022

6. Inspector(s):	7. Program Code(s):	8. Priority:	9. Inspection Guidance Used:
Jason Draper	02240	2	IP 87130

10. Licensee Contact Name(s):	11. Licensee E-mail Address:	12. Licensee Telephone Number(s):
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13. Inspection Type:	14. Locations Inspected:	15. Next Inspection Date (MM/DD/YYYY):
☐ Initial ☑ Routine ☑ Announced ☐ Non-Routine ☐ Unannounced	☑ Main Office ☑ Field Office ☐ Temporary Job Site ☐ Remote	05/18/2024 ☑ Normal ☐ Extended ☐ Reduced ☐ No change

16. Scope and Observations:

This was an announced routine inspection of a large medical center with two locations in Independence, MO, authorized to use byproduct material described in 10 CFR 35.100, 35.200, 35.300 and Y-90 microspheres permitted by 35.1000. At the licensee's main hospital location, five nuclear medicine technologists (NMTs) performed diagnostic administrations on approximately 30 patients per week as well as cardiac PET administrations of Rb-82 on approximately five patients per day using a Bracco CardioGen-82 system. Additionally, the licensee administered therapy dosages of I-131 capsules to approximately 2-3 patients per month and performed approximately three Y-90 microsphere procedures per year. At the licensee's cancer center (Jackson Dr), two NMTs performed PET administrations of F-18 on approximately four patients per day.

During the inspection, the inspector toured the licensee's facilities to ensure materials were being stored and secured appropriately and took independent radiation surveys to verify areas were appropriately posted. There were no therapies scheduled at the time of the inspection, but the inspector observed the preparation and administration of one diagnostic dosage of Tc-99m to observe the licensee's handling and use of radioactive material. The NMTs demonstrated licensee procedures including receipt of packages, instrument calibrations and checks, and waste handling. The inspector also interviewed the NMTs with regard to surveys and emergency procedures. The inspector reviewed a selection of licensee records including written directives, patient release determinations, dosimetry records, waste transfer and disposal records, and periodic radiation safety program reviews.

During the inspection, the inspector identified that the licensee used a Bracco CardioGen-82 system for administering Rb-82 to patients for cardiac PET scans. Due to the nature of this generator elution and pharmaceutical delivery system, the licensee was unable to meet the requirements of 10 CFR 35.60 and 10 CFR 35.63 to calibrate the instrument used to measure the activity of the dosage administered and to determine the activity of each dosage before medical use; however, the inspector determined that that the licensee had met all the criteria in EGM 13-003. Specifically, the licensee (1) had written test procedures to ensure that the infusion pump flow rate was consistent and accurate, and that the radiation detector met the manufacturer’s specifications; (2) confirmed that the required infusion rate and radiation detector tests were performed within the last twelve months and had maintained records documenting the performance and results of these tests; (3) ensured that all authorized users who are using the Rb-82 generator and infusion cart, as well as the Radiation Safety Officer, had successfully completed training specific to the manufacturer and model of generator and infusion cart being used, and

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documentation of satisfactory completion of such training has been maintained; and (4) recorded the activity of each dosage administered, as provided by the infusion cart. Therefore, the NRC exercised discretion not to cite violations of 10 CFR 35.60 and 10 CFR 35.63.

There were no violations of NRC requirements cited as a result of this inspection.