



SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Department of Veterans Affairs
Harry S. Truman Memorial Veterans Hospital
800 Hospital Drive
Columbia, MO 65201

REPORT NUMBER(S) 030-34325/2019010

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-34325

4. LICENSE NUMBER(S)

03-23853-01VA

5. DATE(S) OF INSPECTION

May 29, 2019 with in-office
review thru June 14, 2019

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	<i>Zahid Sulaiman</i>	7/11/19
BRANCH CHIEF	Patricia J. Pelke, Chief, MLB	<i>Patricia J. Pelke</i>	7/12/2019

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Department of Veterans Affairs Harry S. Truman Memorial Veterans Hospital 800 Hospital Drive Columbia, MO 65201 REPORT NUMBER(S) 030-34325/2019010	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
---	--

3. DOCKET NUMBER(S) 030-34325	4. LICENSE NUMBER(S) 03-23853-01VA	5. DATE(S) OF INSPECTION May 29, 2019 with in-office review thru June 14, 2019
6. INSPECTION PROCEDURES USED 87130, 87131, 87134	7. INSPECTION FOCUS AREAS 03.01 - 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03614	2. PRIORITY 2	3. LICENSEE CONTACT Ed Leidholdt, Ph.D., Director, NHPP	4. TELEPHONE NUMBER (707) 562-8374
--	-----------------------------	---	--

☐ **Main Office Inspection**
Next Inspection Date: N/A

☒ **Field Office Inspection** Harry S. Truman Memorial VA, Columbia, MO

☐ **Temporary Job Site Inspection**

PROGRAM SCOPE

This was a routine, unannounced inspection of activities under Permit No. 24-15235-03 of the Department of Veterans Affairs hospital located in Columbia, Missouri. The nuclear medicine department was staffed with three full-time nuclear medicine technologists (NMTs). The NMTs typically administered approximately 200 diagnostic procedures using technetium-99m (Tc-99m), 50 PET/CT scans using fluorine-18 (FDG) through Medrad Intego PET infusing system monthly, and 15 iodine-131 (I-131 in capsule form) for hyperthyroid or thyroid ablations annually. The diagnostic procedures included variety of imaging and uptake for cardiac, HIDA, bone scan, lung scan using DTPA, and gastric emptying. The licensee received the Eckert and Ziegler GalliaPharm Germanium-68(Ge-68)/Gallium-68(Ga-68) generator on November 8, 2018 for medical use and non-human research use. The licensee is preparing the laboratory for radiopharmaceutical production of Ga-68 for human use research by next year.

Performance Observations:

The inspection consisted of interviews with select licensee personnel, a review of selected records, and tour of the nuclear medicine department and research laboratories. The inspector observed preparation and administration of Tc-99m for diagnostic procedures with a patient. The inspector: (1) observed the NMT conduct a physical inventory of sealed sources, and all sources were accounted for; (2) had the NMT demonstrate the package receipt surveys and wipes, dose calibrator constancy check, daily area surveys and weekly wipe tests, and proper handling of radioactive waste and disposal procedures. The inspector had the principal investigator/authorized nuclear pharmacist demonstrate the use of Ge-68/Ga-68 generator, to prepare, and QA/QC of Ga-68 radiopharmaceutical doses for research and human uses planned for next year. Interviews with licensee personnel indicated adequate knowledge of radiation safety, emergency procedures, and NRC regulations. The inspector reviewed the following records: written directives, RSC minutes, quarterly program audits, package receipts, master inventory list, radioactive materials order sheet, waste disposal, liquid waste discharge inventory, annual EPA air COMPLY report (2018 & 5/2/2019), DOT Hazmat training, linearity and accuracy of the dose calibrator, instrument calibration, sealed source leak tests, daily area surveys, and weekly wipe tests.

Docket File Information (Continued)

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Department of Veterans Affairs
Harry S. Truman Memorial Veterans Hospital
800 Hospital Drive
Columbia, MO 65201

REPORT NUMBER(S) 030-34325/2019010

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-34325

4. LICENSE NUMBER(S)

03-23853-01VA

5. DATE(S) OF INSPECTION

May 29, 2019 with in-office
review thru June 14, 2019

PROGRAM SCOPE

The inspector reviewed the dosimetry records for 2018 and through March 31, 2019 indicating the maximum annual dose to be 231 mrem - DDE; and 339 mrem - SDE. The inspector conducted independent and confirmatory 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 as a result of this inspection.

An exit meeting was held with the hospital staff and NHPP after the inspection on May 29, 2019. Subsequent followup was needed on an item regarding a Condition of the Permit which was resolved with no issues and a telephone exit was held with the facility RSO on June 14, 2019.

