

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Department of Veterans Affairs Under Secretary of Health Washington, D.C. 20420 Location: VA St. Louis Health Care System, St. Louis, MO REPORT NUMBER(S)	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-34325	4. LICENSE NUMBER(S) 03-23853-01VA	5. DATE(S) OF INSPECTION July 9 - December 19, 2018
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6. INSPECTION PROCEDURES USED 87131, and 87134	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02110	2. PRIORITY 2	3. LICENSEE CONTACT Ed Leidholdt, Ph.D.	4. TELEPHONE NUMBER (707) 562-8374
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Main Office Inspection Next Inspection Date: n/a

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

VA St. Louis

This location was inspected on July 9, 2018.

This permittee of the DVA was authorized to use licensed material with atomic numbers 1-83, F-18, Mo-99/Tc-99m, I-131, Xe-133, Lu-177 and Ra-113. The permit authorized six locations of use. The radiation safety program was managed by a dedicated full-time RSO and supported by an assistant RSO.

At the St. Louis Hospital (main) nuclear medicine studies were performed daily. The nuclear medicine department was staffed with three FT technologists who performed approximately 130-150 diagnostic procedures per month. The permittee received unit doses and bulk Tc-99m for kit preparation; the department administered a full spectrum of diagnostic studies. The permittee operated a separate PET department within the hospital. The PET studies were performed daily by two FT technologists. The hospital maintained an active therapeutic radiopharmaceutical program including I-131 and Ra-223 treatments; all patients were released under the provisions of 10 CFR 35.75.

Performance Observations

This inspection consisted of interviews with selected licensee personnel, a review of selected records, a tour of the nuclear medicine and PET departments, and independent measurements. The inspector observed the permittee staff perform dose calibrator QA checks and administer several diagnostic dosages. The inspector reviewed the patients' written directives for several radiopharmaceutical therapy treatments. The inspection included observations of security of byproduct material, use of personnel monitoring, and postings.

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<input checked="" type="checkbox"/> Main Office Inspection Next Inspection Date: <u> n/a </u>			
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PROGRAM SCOPE

VA Marion, IL

This location was inspected on August 2, 2018.
At the Marion, IL Hospital nuclear medicine studies were performed daily. The nuclear medicine department was staffed with two FT technologists who performed approximately 100-150 (and trending higher) diagnostic procedures per month. The permittee received unit doses only; the department administered a full spectrum of diagnostic studies. The hospital's use of therapeutic radiopharmaceuticals was limited to I-131 whole body CA follow up studies.

Performance Observations

This inspection consisted of interviews with selected licensee personnel, a review of selected records, a tour of the nuclear medicine department, and independent measurements. The inspector observed the permittee staff perform dose calibrator QA checks and administer one diagnostic dosage. The inspection included observations of security of byproduct material, confirmatory source inventories, use of personnel monitoring, and postings.

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PROGRAM SCOPE

VA Wichita
This location was inspected on October 15, 2018, with continuing followup through October 30, 2018. This was a routine, unannounced inspection of a permittee under the Department of Veterans Affairs (DVA) Master Materials License (MML). The facility was an 81 bed medical center under the St. Louis VA permit that operated an active nuclear medicine department, including PET/CT diagnostic imaging. The permit authorized broad scope activities and was assigned a program code 02110 (medical broad scope) by the DVA. The RSO on the permit was located at the St. Louis VA facility, and conducted an audit of permitted activities at the Wichita facility two times per year. The Wichita VA nuclear medicine department was staffed by four full-time certified nuclear medicine technologists (CNMT). Two CNMT's conducted diagnostic nuclear medicine studies in the medical center's cardiology department, and the other two CNMT's conducted PET diagnostic studies in the PET/CT department. The cardiology department, where about 7 diagnostic studies were conducted per day, had 2 imaging rooms and a hot lab. The PET department performed about 2 - 3 studies per day, and had one imaging room and one hot lab. The facility received diagnostic unit doses from a local radiopharmacy, and did not perform any radiopharmaceutical or sealed source therapy procedures.

Performance Observations

The inspector interviewed three CNMT's and observed the preparation, handling, and injection of radionuclides for diagnostic procedures, as well as the use of protective clothing, and whole body and extremity dosimetry. The inspector toured both nuclear medicine departments and observed the use of access-controlled coded entry systems for both hot labs. The inspector also noted the availability of calibrated survey meters and associated radiation protection equipment, e.g., remote handling tools, syringe shields, dose calibrators, and lead shielding.

The inspector reviewed a select sampling of records related to the use, storage, and disposal of permitted radionuclides in both nuclear medicine departments. This included results of the permittee's occupational dosimetry for calendar years 2017 and 2018 to date, records of survey meter calibration, and waste disposal records.



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PROGRAM SCOPE

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The inspector observed a CNMT count a blank smear in the well counter while an F-18 unit dose was in the dose calibrator. The CNMT also counted the blank smear in the well counter without an F-18 unit dose in the dose calibrator. The inspector confirmed that the well counter detected the F-18 and contributed significantly to instrument readings. The inspector also confirmed that the licensee and permittee took corrective actions described in NMED item number 170282.

No violations of NRC requirements were identified.