

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Mercy Hospital Joplin 100 Mercy Way Joplin, MO. 64804  REPORT NUMBER(S) 15-001		2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  030-12728	4. LICENSE NUMBER(S)  24-01090-03	5. DATE(S) OF INSPECTION  December 14, 2015	

**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.

1 Non-cited violation(s) were discussed involving the following requirement(s): **10CFR 35.11 (A)**

- 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	Ryan Craffey/Navid Tehrani	<i>Raf Craffey / Navid Tehrani</i>	12/14/15
BRANCH CHIEF	Aaron McCraw	<i>[Signature]</i>	12/29/15

**Docket File Information**

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6. INSPECTION PROCEDURES USED  87131	7. INSPECTION FOCUS AREAS  03.01-03.07
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02120	2. PRIORITY  3	3. LICENSEE CONTACT  Duane Eugene Myers, M.D., RSO	4. TELEPHONE NUMBER  (417) 781-2727
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Main Office Inspection      Next Inspection Date: 12/14/2018  
 Field Office Inspection  
 Temporary Job Site Inspection

**PROGRAM SCOPE**

This was an unannounced routine inspection of a medical institution with authorization by the license to use byproduct materials for diagnostic and therapeutic medical procedures under 10 CFR 35.100, 35.200, 35.300, and 35.400 at two locations as specified on the license. The inspection reviewed the radiation safety program at the licensee's 100 Mercy Way, Joplin, Missouri (activities at the Carthage location were performed by a service provider, and were inspected in December 2014 under NRC license 21-17561-01, docket 030-12966). The licensee's main Nuclear Medicine Department routinely conducted a daily average of 4-6 stress studies with 4 full-time NMTs. The licensee's PET Imaging Department routinely conducted a daily average of 2-4 PET scans with 1 full-time NMT. Iodine-131 procedures requiring a written directive averaged 3-5 administration per quarter. The licensee received unit doses from a local nuclear pharmacy. Although authorized for manual brachytherapy, the licensee had not performed any of these procedures since moving in to the new hospital, but anticipated beginning them in the first half of 2016.

During this inspection, the inspectors observed three different nuclear medicine administrations (PET, resting stress test, and a lung scan). The licensee's NMT staff demonstrated/discussed: survey instruments and required surveys; PET package receipt and check-in procedures; wipe test counting; PET unit dose and safe handling procedures; Daily dose calibrator constancy test; I-131 procedures, written directives, and 10 CFR 35.75 requirements; waste handling; sealed source inventories; security and storage of licensed material; radiation safety committee meetings; contamination events (none); and dosimetry. The inspectors also reviewed records pertaining to dosimetry, leak tests, radiation safety program audits, dose calibrator linearity and accuracy tests, and radiation safety committee meetings are kept in the hot lab. The inspectors performed independent and confirmatory radiation measurements, which indicated results consistent with the licensee survey records and postings.

The inspectors documented a non-cited violation (NCV) previously evaluated by the NRC and documented in a memo to file dated July 18, 2013 (ML13200A073). The NCV involved the licensee administering an I-131 dosage for a whole body follow up scan, which is authorized under Section 35.300. The licensee identified this I-131 administration as a violation of their license because the hospital was not authorized for 35.300 materials at the time of the administration.