

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Nevada Regional Medical Center  
800 South Ash Street  
Nevada, MO

REPORT NUMBER(S) 2016-001

## 2. NRC/REGIONAL OFFICE

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

## 3. DOCKET NUMBER(S)

030-38883

## 4. LICENSE NUMBER(S)

24-35282-01

## 5. DATE(S) OF INSPECTION

4/28&amp;29/16

## 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.

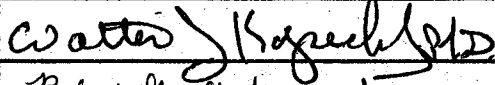
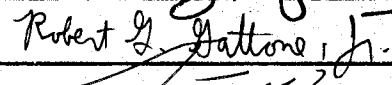

(Violations and Corrective Actions)

Title 10 of the Code of Federal Regulations (CFR) 71.5(a) requires, in part, that a licensee who transports licensed material outside of the site of usage, as specified in the NRC license, or who delivers to a carrier for transport, comply with the applicable requirements of the the Department of Transportation in 49 CFR Parts 170 through 189, appropriate to the mode of transport.

Title 49 CFR 173.421 references excepted packages for limited quantities of Class 7 (radioactive) materials and requires that a Class 7 material whose activity per package does not exceed the limits specified in 49 CFR 173.425 and its packaging are excepted from the specification packaging, marking, labeling and, if not a hazardous substance or hazardous waste, the shipping paper and certification requirements if,

## 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	Walter J. Kopecky, Ph.D., RSO		5/16/16
NRC INSPECTOR	Robert G. Gattone, Jr.		5/16/16
BRANCH CHIEF	Aaron T. McCraw		5/16/16

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(Continued)

in part, the non-fixed (removable) radioactive surface contamination on the external surface of the package does not exceed the limits specified in 49 CFR 173.443(a).

Title 49 CFR 173.443(a) requires, in part, that the level of removable radioactive contamination on the external surfaces of each package offered for transport be kept as low as reasonably achievable such that the level of removable radioactive contamination does not exceed 220 disintegrations per minute per square centimeter (dpm/sq. cm) by either wiping an area of 300 square centimeters of the surface concerned and measuring the activity on the wiping material such that sufficient measurements are taken in the most appropriate locations to yield a representative assessment of the removable contamination levels.

Contrary to the above, on several occasions as of 4/28/16, including 4/26&27/16, the licensee did not use any method to assess the level of removable contamination on the external surfaces of each package containing limited quantities of Class 7 (radioactive) materials offered for transport for the purpose of returning residual radioactive waste to a commercial radiopharmacy.

The causes of the violation were that: (1) a nuclear medicine technologist was unaware of the requirement and did not recall being told to conduct removable contamination surveys on the the external surfaces of each package containing limited quantities of radioactive materials offered for transport; and (2) the Radiation Safety Officer thought that the packages that were returned to the radiopharmacy were empty. As immediate corrective action, the licensee committed to conduct the required removable contamination surveys. Soon after the onsite inspection, the licensee stopped returning residual radioactive waste to a commercial radiopharmacy.

**Docket File Information**

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6. INSPECTION PROCEDURES USED

87130

7. INSPECTION FOCUS AREAS

02.01, 02.02, 02.04, 02.05, 02.06, 02.07

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)

02121

2. PRIORITY

5

3. LICENSEE CONTACT

Walter Kopecky, RSO

4. TELEPHONE NUMBER

(314) 799-4183

☒ Main Office Inspection

Next Inspection Date: 4/28/2021

☐ Field Office Inspection

☐ Temporary Job Site Inspection

**PROGRAM SCOPE**

This was an announced, initial inspection. The licensee received its first package of licensed material on 2/24/16. Licensed activities included administration of technetium-99m radiopharmaceuticals for diagnostic imaging including hepatobiliary scans, bone scans, gastric emptying time studies, and cardiac scans. In addition, the licensee administered iodine-123 for thyroid uptakes and scans. Licensed activities involved an average of two patients per day. Administrations were unit dosages only. The licensee's work hours were Monday through Friday from 8:00am to 4:30pm. Licensed activities did not occur during the onsite inspection.

**Performance Observations**

The inspector: (1) observed that licensed material was secured as required; (2) observed a nuclear medicine technologist (NMT) demonstrate how he had conducted survey instrument operability checks including a constancy check and a battery check; (3) observed an NMT demonstrate how he conducted removable contamination surveys using a well counter; (4) noted that the authorized (AU) user was not available during the onsite inspection, and the NMT stated that the AU was as stated on the license; (5) observed an NMT wearing dosimeter badges that were exchanged quarterly; (6) noted that the licensee had not received its initial dosimeter records as of the onsite inspection; (7) noted that radioactive waste disposal was by decay in storage or return to the commercial radiopharmacy; (8) noted that radioactive waste disposal did not include sanitary sewer disposal; (9) observed that a survey instrument was calibrated by an authorized firm as required; (10) observed an NMT demonstrate how he had prepared and administered licensed material for a bone scan which included use of gloves, shielding, and dosimeter badge use; (11) observed an NMT demonstrate how he had conducted ambient exposure rate surveys; (12) requested the NMT to measure the radioactivity of a calibration source in the licensee's well counter and the well counter system displayed the current radioactivity for the source; (13) observed an NMT conduct an inventory of sealed sources; (14) reviewed selected area radiation survey records; (15) observed an NMT demonstrate how he would respond to a radioactive spill scenario posed by the inspector; and (16) observed that the licensee had a spill kit stored in a strategic location.