

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Shared Medical Services 209 Limestone Pass Cottage Grove, WI 53527 Location inspected: St. Louis, MO REPORT NUMBER(S) 2018001		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
3. DOCKET NUMBER(S) 030-37826	4. LICENSE NUMBER(S) 48-32697-01	5. DATE(S) OF INSPECTION 8/14/18

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	Kevin G. Null	<i>K. G. Null</i>	8/14/18
BRANCH CHIEF	Geoffrey Warren, Acting	<i>G. Warren</i>	8/29/18

Docket File Information

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6. INSPECTION PROCEDURES USED 87130 and 87131	7. INSPECTION FOCUS AREAS 03-01 - 03.07		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2220	2. PRIORITY 3	3. LICENSEE CONTACT Paul Flaten, Director of Rad Safety	4. TELEPHONE NUMBER (608) 839-9956
<input type="checkbox"/> Main Office Inspection Next Inspection Date: 08/14/2021			
<input checked="" type="checkbox"/> Field Office Inspection Barnes-Jewish West Cnty Hosp, St. Louis MO			
<input type="checkbox"/> Temporary Job Site Inspection			

PROGRAM SCOPE

This was a routine, unannounced inspection of a mobile nuclear medicine service that was inspected at Barnes-Jewish West County Hospital in St. Louis, Missouri. The licensee performed fluorine-18 (F-18) labeled FDG studies at this location once per week, averaging 8 patients each week. Doses were based on patient weight and ranged from 8 - 24 millicuries per patient. The mobile unit was staffed by 2 certified nuclear medicine technologists (CNMT's). Unit doses of F-18 were supplied by a local radiopharmacy. The mobile unit included a patient injection room, quiet room, and control and imaging rooms. The RSO performed periodic radiation safety audits at the unit.

PERFORMANCE OBSERVATIONS

The inspector observed the CNMT's prepare and administer diagnostic doses of F-18, and noted the use of lab coats, gloves, syringe shields, and personal dosimetry. A CNMT explained that unit doses were delivered only to the mobile unit, and all radioactive waste was stored in the trailer. Radiopharmacy staff have access to the mobile unit through a key that is stored in a lock box that it attached to the unit. The CNMT's described daily calibration of the dose calibrator, handling and processing of radioactive waste for decay in storage, and daily and weekly surveys for radiation levels and removable contamination.

The inspector reviewed the letter of agreement between the licensee and client, results of surveys of all areas of use before the licensee leaves the client's address, personal dosimetry reports, records of daily dose calibrator constancy checks, survey meter calibration records, annual radiation level surveys in unrestricted areas outside the coach, and records of initial and annual training of the CNMT's.

Using a Canberra model RadEyeG gamma survey meter calibrated on 9/12/17, the inspector performed independent surveys outside the mobile unit when the maximum number of patients were in the trailer. Radiation levels were no greater than 1 millirem/hour at 3 feet from the trailer as described in the license.

No violations or NRC requirements were identified.

GW
8/24/18