NRC FORM 591M PART 1
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE
Medical Outsourcing Solutions 1185 N 1000 W Linton, IN REPORT NUMBER(S) 2016-001	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-38851	12-35254-01	7/12/16, in office through 8/4/16

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 violations(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	Robert G. Gattone, Jr.	Robert G. Gattone, Jr.	8/15/16
BRANCH CHIEF	Aaron T. McCraw	for ATM	8/17/16

NRC FORM 591M PART 3
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information

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6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87130	02.01 through 02.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
02220	3	William Gooch, RSO	(618) 606-5016

☐ Main Office Inspection Next Inspection Date: 07/12/2019

☑ Field Office Inspection 1185 N 1000 W, Linton, IN

☐ Temporary Job Site Inspection

PROGRAM SCOPE

This was an initial inspection of a mobile medical service licensee. The in-office review included information that was unavailable during the onsite inspection pertinent to a potential violation of 10 CFR 35.80(b). The licensee received its first package of licensed material on 8/28/15. The licensee did not transport licensed material. Licensed activities were limited to technetium-99m unit dosages on Tuesdays and Fridays from 7:00am to 2:00pm. The licensee's non-licensed client's employees did not handle licensed material. Two nuclear medicine technologists (NMTs) worked at the facility; however, only one NMT was present during the onsite inspection.

Performance Observations

The inspector: (1) noted that a local radiopharmacy delivered licensed material to the unlicensed client's locked hot lab, and half of the time, the material was delivered when no licensee NMT was present and the client's Radiology Manager had access to the client's locked hot lab in accordance with the licensee's NRC license; (2) observed an NMT wear whole body and extremity dosimeters; (3) reviewed dosimeter records and noted that the annual maximum whole body and extremity doses for 2015 and 2016 (through 5/14) were 47 millirems (mrem) and 160 mrem, respectively; (4) observed the NMT demonstrate how she conducted battery tests and constancy checks on a survey instrument; (5) observed the NMT conduct package receipt surveys; (6) used an NRC owned calibrated survey instrument to measure a maximum of 0.2 milliroentgens per hour (mR/hr) at the surface of a shielded container containing a cobalt-57 (Co-57) sheet source, and <0.1 mR/hr at selected surfaces exterior to the hot lab containing licensed material; (7) observed the NMT prepare LQ packages for radiopharmacy pickup; (8) noted that the hot lab door was locked when unattended by the licensee's NMT; (9) noted that spent dosages were returned to the radiopharmacy; (10) noted that the NMT disposed of residual radioactive waste (e.g., IV tubing) by decay-in-storage; (11) observed the NMT demonstrate how she would respond to a radioactive spill based on a scenario posed by the inspector; (12) observed the NMT demonstrate how she had prepared and administered dosages; (13) noted that the licensee conducted end-of-day ambient exposure rate surveys in restricted areas and weekly removable contamination surveys in those areas; (14) reviewed radiation safety program audit records dated 10/20/15 and 2/26/16; (15) reviewed selected Co-57 sealed source leak test records dated 11/5/15 and 4/21/16 from an authorized firm; and (16) observed that the licensee did not use a dose calibrator to measure dosages prior to administration; instead, the NMT used an applicable decay chart to determine the dosage activity at the time of administration, and the inspector verified that the decay chart was accurate by doing an independent decay calculation.

GW for ATM