

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

Michigan Mobile PET, LLC  
G3235 Beecher Road  
Suite B  
Flint, MI 48352

REPORT NUMBER(S) 2017001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-38252

4. LICENSE NUMBER(S)

21-32787-01

5. DATE(S) OF INSPECTION

May 25, 2017

**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             | Zahid Sulaiman, Health Physicist | <i>Zahid Sulaiman</i> | 5/25/17 |
| BRANCH CHIEF              | Aaron T. McCraw, Chief, MIB      | <i>ATM</i>            | 6/14/17 |

**Docket File Information**

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|--|---|
| 6. INSPECTION PROCEDURES USED<br><br>87130 | 7. INSPECTION FOCUS AREAS<br><br>03.01- 03.07 |
|--|---|

**SUPPLEMENTAL INSPECTION INFORMATION**

|                                 |                      |   |   |
|---------------------------------|----------------------|---|---|
| 1. PROGRAM CODE(S)<br><br>02220 | 2. PRIORITY<br><br>3 | 3. LICENSEE CONTACT<br><br>James Botti, RSO | 4. TELEPHONE NUMBER<br><br>(734) 662-3197 |
|---------------------------------|----------------------|---|---|

|   |   |
|---|---|
| <input checked="" type="checkbox"/> Main Office Inspection        | Next Inspection Date: <u>05/25/2020</u> |
| <input type="checkbox"/> Field Office Inspection                  |   |
| <input checked="" type="checkbox"/> Temporary Job Site Inspection | <u>750 S. Ballenger Hwy, Flint, MI</u>  |

**PROGRAM SCOPE**

This was routine inspection of a mobile PET nuclear medicine service authorized to use licensed material permitted by 10 CFR 35.100 and 35.200 at temporary job sites where NRC maintains jurisdiction. The licensee operated two scan-in-van coaches. The licensee provided services to its clients Monday through Saturday in Michigan. The licensee was staffed with four full-time and five part-time nuclear medicine technologists (NMTs) who performed approximately 300 diagnostic procedures monthly. The licensee received PET unit doses from a licensed radiopharmacy. The licensee retained a consultant physicist who audited the radiation safety program quarterly and also served as the RSO.

**Performance Observations**

The inspection consisted of interviews with licensee personnel, a review of select records, a tour of the mobile PET van coach, tour of the temporary job-site, and independent measurements. At the time of inspection, no licensed activities were conducted. The inspector had the NMT demonstrate the dose calibrator constancy check, package receipt and check-in procedures, the end of the day daily area surveys and weekly wipe test, source inventory, security of byproduct material, proper handling of radioactive waste and disposal procedures, and use of personnel monitoring. The inspector reviewed the following records: quarterly program audits conducted by an outside consultant, package receipts, waste disposal records, daily surveys and weekly wipes test results, linearity and accuracy of the dose calibrator, sealed source inventory and leak tests, DOT Hazmat training, and the agreement letter signed by each client managements. The inspector also reviewed the dosimetry records for 2015 through March 31, 2017 indicating the maximum annual dose to be 863 mrem - DDE, and 4,030 mrem - SDE. The inspector reviewed the dosimetry records of two declared pregnant workers since the last inspection. The inspector also reviewed the licensee consultant report on an administration of a 14.85-mCi F-18 FDG dose to a 16-weeks pregnant patient; the total absorbed dose to the fetus was calculated to be 1.2 rad (12.1 mGy) and therefore not reportable to the NRC as a medical event. The inspector performed independent radiation measurements of each functional area and outside the mobile van and the results were consistent with licensee survey records and within regulatory limits.

No violations of NRC requirements were identified as a result of this inspection.