

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Mid-America Isotopes, Inc.
Ashland, MO

REPORT NUMBER(S) 2010-001

2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Suite 210
Lisle, Illinois 60532-4351

3. DOCKET NUMBER(S)

030-31896

4. LICENSEE NUMBER(S)

24-26241-01MD

5. DATE(S) OF INSPECTION

7/29/10

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:


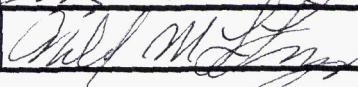
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(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. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
(Violations and Corrective Actions)

Licensee's Statement of Corrective Actions for Item 4, above.

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	SCOTT C. BROWER		7-29-10
NRC INSPECTOR	Michael LaFranzo		7/29/10

227

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1. LICENSEE Mid-America Isotopes, Inc. REPORT NUMBER(S) 2010-001		2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532	
3. DOCKET NUMBER(S) 030-31896	4. LICENSE NUMBER(S) 24-26241-01MD	5. DATE(S) OF INSPECTION 7/29/2010	
6. INSPECTION PROCEDURES USED 87127	7. INSPECTION FOCUS AREAS 03.01-03.07		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2500	2. PRIORITY 2	3. LICENSEE CONTACT Scott Brower, R.Ph., RSO	4. TELEPHONE NUMBER 573-657-1776
<input checked="" type="checkbox"/> Main Office Inspection <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site Inspection			
Next Inspection Date: 7/2012			

PROGRAM SCOPE

The licensee provides unit and bulk doses of byproduct material to approximately 20 clients primarily within the States of Missouri and Nebraska. The pharmacy is operational Monday-Friday from approximately 2:30am to 4:00pm. All other times are covered on-call.

The licensee receives three Mo99/Tc99m generators weekly in various quantities as authorized. On average, an authorized pharmacist will perform about three iodine-131 encapsulations weekly ranging from 3 to 100 millicuries. Encapsulations were not being performed at the time of the inspection.

This radiopharmacy employs 4 pharmacists, 6 technicians (including students), and 20 drivers.

Performance Observations

The inspector observed a generator elution procedure, unit dose preparation and drawing, performance of surveys and wipes prior to shipment, loading of RAM in dedicated transport vehicles, package receipt surveys and wipe tests, security of licensed material and personal survey meter "frisk" upon leaving the restricted area; No violations of NRC requirements were identified.

The inspector reviewed a selected representative sample of records including dosimetry, surveys, transportation documentation, customer records, doses delivered, Mo99 breakthrough analysis and effluent releases; No violations of NRC requirements were identified.

The inspector performed independent and confirmatory measurements of restricted and unrestricted areas within the licensee's facility and outside of the building; No abnormal radiation levels were identified and no violations of NRC requirements were identified.

gfp