NRC FORM 591M PART 1
(10-2003) 10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE
Missouri Delta Medical Center 1008 North Main Street Sikeston, MO 63801 REPORT NUMBER(S) 2009-01	**Region III** **U.S. Nuclear Regulatory Commission** **2443 Warrenville Road, Suite 210** **Lisle, Illinois 60532-4351**

3. DOCKET NUMBER(S)	4. LICENSEE NUMBER(S)	5. DATE(S) OF INSPECTION
030-02377	24-12876-02	April 20, 2009

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:

[X] 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	Deb Nichols, Director of Radiology		
NRC INSPECTOR	Kevin G. Null	Kevin G. Null	April 20, 2009

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NRC FORM 591M PART 3
(10-2003) 10 CFR 2.201

Docket File Information

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Missouri Delta Medical Center REPORT NUMBER(S) 2009-01	2. NRC/REGIONAL OFFICE **NRC Region III** **2443 Warrenville Road, Suite 210** **Lisle, Illinois 60532-4351**

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-02377	24-12876-02	April 20, 2009

6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87130	1, 2, 4, 5, 6, and 7

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
02120	5	Bill Nichols	(573) 471-1600

[X] Main Office Inspection — Next Inspection Date: April 2014

[ ] Field Office

[ ] Temporary Job Site Inspection

PROGRAM SCOPE

The licensee operates a small nuclear medicine department with one full-time nuclear medicine technologist and one physician authorized user/RSO. Only diagnostic studies authorized under 35.100 and 35.200 are conducted using unit doses received from Radiopharmacy, Inc. in Paducah, Kentucky. An average of 7 – 10 diagnostic studies are conducted per day, primarily cardiac, bone and gall bladder procedures. The program is audited on a quarterly basis by Stan Huber Consultants. The licensee utilizes a Capintec dose calibrator, and 2 Ludlum Model 14-C survey meters coupled to end window GM probes (last calibrated in October 2008), and a Ludlum Model 2200 used to count smears for contamination.

Performance Observations

The inspector interviewed the Director of Radiology, Director of Security, Nuclear Medicine Technologist and Authorized User. All individuals were knowledgeable of the licensed program and their responsibilities in the safe use and security of license material. The inspector observed the nuclear medicine technologist measure and inject a unit dose for a diagnostic study and perform area surveys in both restricted and unrestricted areas. The nuclear medicine technologist also described how and when he performed routine smears for contamination, and how the smears were analyzed.

The nuclear medicine technologist also described the licensee's annual and refresher training programs for non-occupational workers who may, at times, frequent the nuclear medicine department. The inspector reviewed dosimetry records for 2008, and for the first month of 2009. Accumulated whole body dose for 2008 for the nuclear medicine technologist was 215 millirem, and 430 millirem for the extremity dose. For the first month of 2009, the whole body dose was 20 millirem and the extremity was 40 millirem.

The inspector performed independent surveys in both restricted and unrestricted areas. Radiation levels in the unrestricted area were background (i.e., 0.01 mR/hr – 0.02 mR/hr). Radiation levels in the restricted area, i.e., hot lab and imaging room ranged from 0.05 mR/hr – 1.0 mR/hr, and 0.02 mR/hr – 0.04 mR/hr, respectively.

No violations were identified.

KJ