| NRC FORM 591M PART 1<br>(10-2003) 10 CFR 2,201   |  |  | ί,   | J.S. NUCLEAR REGULATO                                       | RY COMMISSION                |
|--|--|--|--|---|------------------------------|
| SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION   |  |  |  |   |                              |
| 1. LICENSEE/LOCATION INSPECTED:  |  |  | 2. NRC/REGIONAL OFFICE   |   |                              |
| Hendricks Regioned Heulth  |  |  | Region III<br>U.S. Nuclear Regulatory Commission   |   |                              |
| Dunville, IN 46122   |  |  | U.S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, Illinois 60532-4351 |   |                              |
| REPORT NUMBER(S)   | 2009-01  |  |  |   |                              |
| 3. DOCKET NUMBER()   | · .  | 4. LICENSEE NUM<br>【3~1つし8                           |  | 5. DATE(S) OF INSP  | ECTION<br>19                 |
| LICENSEE:  |  |  |  | ' /   |                              |
| The inspection was an ofto compliance with the I The inspection consiste and observations by the   | Nuclear Regulated of selective expenses inspector. The | ory Commission (NF<br>xaminations of proce           | C) rules and regulatio<br>dures and representat  | ns and the conditions c                                     | of your license.             |
| 2. Previous violation  | n(s) closed.   | •  |  |   |                              |
| 3. The violation(s), sidentified, non-repeting 1600, to exercise dis   | itive, and corrective                                  | action was or is being tak                           | as non-cited violations, are rendering and the remaining criter                                      | not being cited because they<br>ia in the NRC Enforcement P | were self-<br>Policy, NUREG- |
| 7  | Non-Cited Violatio                                     | n(s) was/were discussed i                            | nvolving the following requi   | rement(s) and Corrective Act                                | ion(s):                      |
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|  |  |  |  |   |                              |
| 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) |  |  |  |   |                              |
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|  | License  | e's Statement of Corre                               | ctive Actions for Item 4,  | ahove   |                              |
| corrective actions is made in  | 0 days, the actions accordance with the                | described by me to the insert requirements of 10 CFR | spector will be taken to corre<br>2.201 (corrective steps alre                                       | ect the violations identified.                              | which will be taken,         |
| Title  | Pri  | nted Name  | Sig  | gnature   | Date                         |
| LICENSEE'S<br>REPRESENTATIVE   |  |  |  |   |                              |
| NRC INSPECTOR  | Ke   | vin G. Null  | an'x   | & New   | 6/3/09                       |
| NRC FORM 591M PART 1 (10-20  |  |  |  |   | 100                          |

## NRC FORM 591M PART 3 **U.S. NUCLEAR REGULATORY Docket File Information** COMMISSION (10-2003) 10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION 1. LICENSEE 2. NRC/REGIONAL OFFICE Hendricks Regional Health NRC Region III 2443 Warrenville Road, Suite 210 2009-01 Lisle, Illinois 60532-4351 NUMBER(S) 3. DOCKET NUMBER(S) 4. LICENSE NUMBER(S) 5. DATE(S) OF INSPECTION 030-12163 June 3, 2009 13-17082-01 6. INSPECTION PROCEDURES USED 7. INSPECTION FOCUS AREAS 87131 1, 2, 4, 5, 6, and 7 SUPPLEMENTAL INSPECTION INFORMATION 1. PROGRAM CODE(S) 3. LICENSEE CONTACT 2. PRIORITY 4. TELEPHONE NUMBER 317-745-3429 02120 3 Joseph Hunt, M.D., RSO Х Main Office Inspection June 2012 Next Inspection Date: Field Office Temporary Job Site Inspection

## **PROGRAM SCOPE**

The licensee is authorized to use 10 CFR 35.100, 200 and iodine-131 from 35.300 (approved for up to 1 curie of iodine-131 on May 22, 2009). The licensee has not used iodine-131 for either diagnostic or therapeutic purposes since the amendment was issued. Ninety percent of their use of material is for diagnostic studies using technetium-99m. The remaining 10 percent involves studies using iodine -123 (thyroid uptakes and scans, gallium-67, and thallium-201)

The Department employs 2 full-time and 1 part-time nuclear medicine technologists. The Department also supports training and internship for nuclear medicine technologist students attending Ball State University in Muncie, Indiana.

The licensee received unit doses from Cardinal Health. Periodically they received bulk technetium-99m for radiopharmaceutical preparation. They did not use Moly/Tech generators. Landauer supplies dosimetry for the nuclear medicine department. The maximum exposure for the month of January 2009 was 29 mrem whole body, and 50 mrem extremity. For the calendar year 2008, the maximum whole body exposure was 157 mrem and the maximum extremity was 600 mrem.

## Performance Observations

Based on interviews conducted, the inspector concluded that the nuclear medicine staff was knowledgeable of the licensed program and their responsibilities in the safe use and security of licensed material. The inspector also interviewed two students who were doing rotations through the hospital's nuclear medicine department. Both appeared very knowledgeable of the licensee's radiation safety program and indicated that the nuclear medicine department staff provided adequate department-specific training in their procedures and radiation safety program.

The inspector observed a nuclear medicine staff member demonstrate the electronic key-card locking mechanism for the hot lab and imaging room. Access to these areas is limited to the Department manager and technologists.

Nuclear medicine staff also demonstrated the department's package receipt procedures which included GM surveys on the surface and one meter from a package, and smears to check for removable contamination.

The inspector also observed employees and students wearing appropriate dosimetry, and measuring the quantity of activity in a unit dose, and preparing the dose for injection by wearing required protective clothing.

No violations were identified.

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