

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: <p><b>Howard Regional Health System          3500 S. La Fountain Street          Kokomo, IN 46902</b></p> <p>REPORT                 2006-001</p>		2. NRC/REGIONAL OFFICE <p><b>U.S. Nuclear Regulatory Commission          Region III          2443 Warrenville Road          Lisle, Illinois 60532-4351</b></p>	
3. DOCKET NUMBER(S) <p><b>030-13342</b></p>	4. LICENSEE NUMBER(S) <p><b>13-13028-02</b></p>	5. DATE(S) OF INSPECTION <p><b>December 20 , 2006</b></p>	

**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.

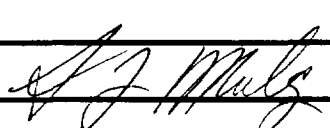

\_\_\_\_\_ **Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):**

- 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			
NRC INSPECTOR	<b>S. J. Mulay</b>		12/20/06 

**Docket File Information**  
**SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

<b>1. LICENSEE</b> Howard Regional Health System REPORT 2006-001		<b>2. NRC/REGIONAL OFFICE</b> Region III 2443 Warrenville Road Lisle, IL 60532	
<b>3. DOCKET NUMBER(S)</b> 030-13342	<b>4. LICENSE NUMBER(S)</b> 13-13028-02	<b>5. DATE(S) OF INSPECTION</b> December 20, 2006	
<b>6. INSPECTION PROCEDURES</b> 87131	<b>7. INSPECTION FOCUS AREAS</b> 03.01-03.07		
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>			
<b>1. PROGRAM</b> 2120	<b>2. PRIORITY</b> G3	<b>3. LICENSEE CONTACT</b> Rik Stevens, M.D., RSO	<b>4. TELEPHONE NUMBER</b> 765-453-8635
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: <u>December 2009</u>	
<input type="checkbox"/> Field		_____	
<input type="checkbox"/> Temporary Job Site		_____	

**PROGRAM SCOPE**

This active medical program performs about 140 diagnostic nuclear medicine procedures monthly. Licensed material is obtained from an area pharmacy in the form of unit doses. Three full-time technologists are on staff. Approximately 35 lung ventilations are performed monthly using Tc99m aerosol.

The licensee performs approximately 2 iodine-131 HTT's monthly and 4 treatments for ablation annually, both in capsule form. The licensee occasionally performs treatments utilizing Sr-89. The licensee does not perform brachytherapy treatments.

A medical consultant is available quarterly to audit the existing program which appears to adequately oversee licensed activities.

**Performance Observations**

Interviews conducted with available nuclear medicine staff revealed an adequate level of understanding of emergency and material handling procedures and techniques. Patient injections observed included the use of gloves, personnel dosimetry, and proper clothing. Daily dose calibrator checks, package surveys and wipes, and area surveys, were demonstrated with no problems noted. Statements made during staff interviews regarding radiopharmaceutical treatment administrations were appropriate for this modality.

Personal dosimetry records were reviewed for 2005 and YTD 2006 for nuclear medicine indicated maximum 2005 whole body and extremity readings of 727 mrem and 6330 mrem\* respectively. YTD 2006 readings were 373 mrem whole body and 3030 mrem extremity. One monitored declared pregnant worker revealed maximum fetal exposure of 219 mrem from declaration to completion.

Overall, licensed material was observed adequately secured during the review and was not readily accessible to members of the general public. Independent measurements taken in the hot lab area revealed 0.5mr/hr behind the lead shield and essentially background (0.02mr/hr) in restricted and unrestricted areas.

\* According to licensee representatives, the large extremity exposure was due to slow injection technique by a new technologist. The individual was counseled in methods to reduce injection time which appear to have been successful.