

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: Children's Mercy Hospital Kansas City, Missouri		2. NRC/REGIONAL OFFICE  REGION III US NUCLEAR REGULATORY COMMISSION 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532	
REPORT	2007-001		
3. DOCKET NUMBER(S) 030-09259	4. LICENSEE NUMBER(S) 24-15513-01	5. DATE(S) OF INSPECTION 4/2-4/07	

**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	Nanci A. Burchell, RSO		04/04/07
NRC INSPECTOR	Michael M LaFranzo		4/4/07

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



1. LICENSEE <b>Children's Mercy Hospital</b> REPORT NUMBER(S) 2007-001		2. NRC/REGIONAL OFFICE <b>Region III</b>	
3. DOCKET NUMBER(S) <b>030-09259</b>	4. LICENSE NUMBER(S) <b>24-15513-01</b>	5. DATE(S) OF INSPECTION <b>4/2-4/2007</b>	
6. INSPECTION PROCEDURES USED <b>87130/87126</b>	7. INSPECTION FOCUS AREAS <b>3.1-3.7/3.1-3.7</b>		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) <b>2120</b>	2. PRIORITY <b>G2-5</b>	3. LICENSEE CONTACT <b>Nanci Burchell - RSO</b>	4. TELEPHONE NUMBER <b>816-795-6466</b>
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Main Office Inspection      Next Inspection Date: **4/2012**

Field Office \_\_\_\_\_

Temporary Job Site \_\_\_\_\_

**PROGRAM SCOPE**

The licensee was authorized for medical activities permitted under 10 CFR 35.100 and 35.200 and limited research and development activities using millicurie quantities of phosphorus-32/sulfur-35/phosphorus-33 and carbon-14. The licensee also possesses a blood irradiator containing a nominal 4100 curies of cesium-137. Under the medical program, the licensee has two authorized users and one technician. The licensee administers unit doses to approximately 3-5 patients a day, Monday through Friday. Under the research and development program, the licensee had four authorized users and a number of technicians to assist in the program - the licensee primarily uses phosphorus-32 in sub-millicurie quantities. Approximately 20 individuals are authorized to use the blood irradiator.

**Observations and Findings**

The inspector interviewed selected members of the licensee's radiation safety program and found that they had sufficient knowledge to ensure licensed material was used/stored in accordance with NRC requirements. The inspector took radiation measurements in various locations of licensed material use and storage and found no unexplained radiation readings. The inspector verified that licensed material usage areas were as discussed in the license. The inspector verified that sealed sources had appropriate leak tests performed (no leaking sources were noted) and radiation safety equipment was functioning appropriately. The inspector performed a side-by-side radiation measurement between NRC and licensee instrumentation and noted the readings were within +/-20%.