

Docket File Information
SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION



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

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2120	2. PRIORITY G2-5	3. LICENSEE CONTACT Nanci Burchell - RSO	4. TELEPHONE NUMBER 816-795-6466
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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%.