

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

1. LICENSEE <b>Jefferson Memorial Hospital</b> REPORT NUMBER(S) <b>2005-001</b>		2. NRC/REGIONAL OFFICE <b>Region III</b>	
3. DOCKET NUMBER(S) <b>03014837</b>		4. LICENSE NUMBER(S) <b>24-18315-01</b>	5. DATE(S) OF INSPECTION <b>September 21, 2005</b>
6. INSPECTION PROCEDURES USED <b>87131</b>		7. INSPECTION FOCUS AREAS <b>03.01 - 03.07</b>	
SUPPLEMENTAL INSPECTION INFORMATION			
1. PROGRAM CODE(S) <b>02120</b>	2. PRIORITY <b>3</b>	3. LICENSEE CONTACT <b>Darlene Sheridan, NMT</b>	4. TELEPHONE NUMBER <b>636/933-1000</b>
<input checked="" type="checkbox"/> Main Office Inspection	Next Inspection Date: <b>September 2008</b>		
<input type="checkbox"/> Field			
<input type="checkbox"/> Temporary Job Site			

**PROGRAM SCOPE**

The licensee was a medical facility located in Crystal City, Missouri, with authorization by the license to use any byproduct material permitted by 10 CFR 35.100, 35.200, 35.300 and use of iodine-125 and palladium-103 permitted by 10 CFR 35.400. The licensee's staff consists of two FT NMTs who routinely conduct a monthly average of 325 diagnostic or imaging procedures with the majority being cardiac, bone, and/or lung studies. Licensed material is received as unit doses from a local nuclear pharmacy and occasionally radiopharmaceuticals are prepared onsite as needed. I-131 dosages greater than 33 millicuries are administered and patients are released after each administration. Iodine-131 administrations average 1-2 per month. No change in RSO or chief nuclear medicine technologist since the previous inspection.

The licensee also conducts iodine-125 seed implants averaging one procedure per month. One authorized user performs the implants with assistance by medical physicists from other local radiation therapy departments. Pre-loaded needles are received by the NMT staff and any unused seeds are stored for decay by the NMT staff.

**Performance Observations**

During the inspection, the licensee's nuclear medicine technologist demonstrated/discussed: (1) survey meter use and calibration; (2) package check-in procedures; (3) unit dose prep and safe handling; (4) wipe test counting; (5) dosimetry; (6) written directives; (7) waste handling; (8) security of licensed material; (9) licensed material inventory; (10) seed handling procedures; and (11) radiation safety program audits.