

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



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