

**SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION**

1. LICENSEE Hannibal Regional Hospital REPORT NUMBER(S) 2010-01		2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532	
3. DOCKET NUMBER(S) 03017616	4. LICENSE NUMBER(S) 24-18988-01	5. DATE(S) OF INSPECTION April 1, 2010	
6. INSPECTION PROCEDURES USED 87124 (11/25/03)	7. INSPECTION FOCUS AREAS 03.01-03.07		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02120	2. PRIORITY 3	3. LICENSEE CONTACT J. D. Hassien, M.D., RSO	4. TELEPHONE NUMBER 573-248-1300
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Main Office Inspection Next Inspection Date: **April 2013**

Field Office **John Kapfer, Abby Murphy, Rebecca Roos, NMTs**

Temporary Job Site Inspection

PROGRAM SCOPE

The licensee was a medical institution located in Hannibal, Missouri, and authorized by the license to use any byproduct material as needed, permitted by 10 CFR 35.100 and 10 CFR 35.200. The licensee is also authorized to use any byproduct material permitted by 10 CFR 35.300 up to the limits specified in the license. The nuclear medicine department was staffed with three nuclear medicine technologists (NMTs) who performed an average of 5-6 patient studies per day and on call weekends. Unit doses were used and obtained from a Springfield, IL nuclear pharmacy. I-131 procedures requiring a written directive averaged 1-2 procedures per month. Area surveys of the injection, hot lab work areas, and scanning areas did not reveal any unusual or elevated readings.

Performance Observations

During the inspection, the licensee's NMTs demonstrated/discussed: (1) survey meter use and calibration; (2) package receiving and check-in procedures; (3) unit dose prep and safe use; (4) package wipe test counting; (5) dosimetry (< 10% of annual regulatory limits); (6) dose calibrator tests; (7) waste handling; (8) security of licensed material; (9) sealed source inventory and leak tests; (10) quarterly radiation safety program audits; (11) I-131 written directives and patient release procedures; and (12) any contamination events (none).