

**SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION**

1. LICENSEE Phelps County Regional Medical Center		2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532	
REPORT NUMBER(S) 2010-01			
3. DOCKET NUMBER(S) 03014804	4. LICENSE NUMBER(S) 24-18295-01	5. DATE(S) OF INSPECTION April 20, 2010	
6. INSPECTION PROCEDURES USED 87131, 87132		7. INSPECTION FOCUS AREAS 03.01-03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02230	2. PRIORITY 2	3. LICENSEE CONTACT E. Downey, Jr, DO, RSO	4. TELEPHONE NUMBER 573-364-8899
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: April 2012	
<input type="checkbox"/> Field Office			
<input type="checkbox"/> Temporary Job Site Inspection		Rob Stoldulski; Dave Earl; Dave Pankey, NMTs	

PROGRAM SCOPE

The licensee was a medical institution located in Rolla, Missouri, with authorization by the license for diagnostic and therapeutic nuclear medicine procedures, low dose brachytherapy procedures, and GammaMed remote afterloading brachytherapy procedures as specified on the license. The nuclear medicine department was staffed with 3 nuclear medicine technologists (NMTs) who perform an average of 10-15 patient diagnostic studies each weekday using unit doses received from a local nuclear pharmacy. Iodine-131 therapies average one case per month with justification for patient release and written instructions provided. All waste was held for decay-in-storage (DIS) or returned to the nuclear pharmacy as a limited quantity shipment. Since the previous inspection the licensee has constructed and opened a PET facility. The PET facility has one full-time NMT and average 2-3 patient studies per weekday. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.

The Oncology Department was authorized to use a GammaMed HDR for MammoSite and cervical cancer therapies and average 1 patient per month. No low-dose brachytherapy or seed implant procedures have been performed since the previous inspection. The licensee's Oncology Department was staffed with one authorized user and one primary medical physicist who performed treatment setup and double checks of the treatment plan. Source exchanges are performed three times per year. No change in RSO, authorized users, or medical physicists since the previous inspection.

Performance Observations

During the inspection, the licensee's available staff demonstrated/discussed: (1) survey instruments and required surveys; (2) package receipt and check-in procedures; (3) unit dose and safe use procedures; (4) quarterly dosimetry and records (<10% of part 20 limits); (5) written directives and treatment plans; (6) iodine-131 procedures; (7) security and storage of licensed material; (8) GammaMed calibrations and output checks; (9) GammaMed daily checks; (10) emergency procedures; (11) training/emergency drills; (12) radiation safety program audit results; and (13) PET safety and procedures.