

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Indiana University Health Bloomington Hospital 606-625 West Second Street Bloomington, Indiana REPORT NUMBER(S) 2016-001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-01644	4. LICENSE NUMBER(S) 13-10408-02	5. DATE(S) OF INSPECTION May 25, 2016
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6. INSPECTION PROCEDURES USED 87131, 87132	7. INSPECTION FOCUS AREAS 03.01 - 03.09, 03.01 - 03.09
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02120	2. PRIORITY 3	3. LICENSEE CONTACT Patrick J. Byrne, CHP, RSO	4. TELEPHONE NUMBER (812) 353-9446
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Main Office Inspection Next Inspection Date: May 2019
 Field Office Inspection
 Temporary Job Site Inspection

PROGRAM SCOPE

This was a routine, unannounced, inspection. The licensee was a 284-bed hospital located in Bloomington, Indiana, with authorization to use byproduct materials in Sections 35.100, 35.200, 35.300, and 35.400. Licensed activities were conducted only at the facilities identified on the license. The nuclear medicine department was staffed with three full-time nuclear medicine technologists. The nuclear medicine staff typically administered 160 diagnostic doses, including a wide variety of imaging procedures. Therapy procedures included around four iodine-131 hyperthyroidism procedures and four iodine-131 whole body scans annually, with the iodine in capsule form. Doses were received as unit doses or prepared from bulk technetium-99m received from a licensed nuclear pharmacy. The radiation therapy department was staffed with one physician authorized user and one physicist who used licensed materials. Since the last inspection, the licensee had performed three permanent prostate implant procedures using iodine-125 seeds; the last was in January 2015. While these procedures were performed at the hospital, records were maintained at the Cota Dr. facility.

At the Cota Dr. facility, the licensee had performed one samarium-153 therapy procedure since the last inspection, in January 2014. The licensee was considering removing this facility from the license.

Performance Observations: The inspector observed one diagnostic administration of licensed materials including dose preparation and disposal, and a package receipt survey and wipe. Licensee personnel demonstrated a variety of diagnostic administrations, daily nuclear medicine morning checks, and daily and weekly contamination surveys, and described planning and administration of radiopharmaceutical therapies and prostate implant procedures. The inspector noted no concerns with these activities. The inspector reviewed written directives for radiopharmaceutical therapies and prostate implant procedures and identified no concerns. Radiation Safety Committee minutes indicated good attendance and appropriate topics of discussion. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. Dosimetry records indicated no exposures of regulatory concern. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.

No violations were identified during this inspection.