

Docket File Information
SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION

1. LICENSEE St. Francis Hospital & Health Centers REPORT NUMBER(S) 2006-001, -002		2. NRC/REGIONAL OFFICE Region III	
3. DOCKET NUMBER(S) 030-09398		4. LICENSE NUMBER(S) 13-02128-03	
6. INSPECTION PROCEDURES USED 87131, 87132		5. DATE(S) OF INSPECTION May 25, 2006	
		7. INSPECTION FOCUS AREAS 03.01 - 03.07; 03.01 - 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02240	2. PRIORITY 2	3. LICENSEE CONTACT Berry L. Stewart, M.S., RSO	4. TELEPHONE NUMBER 317-865-5171
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Main Office Inspection Next Inspection Date: **May 2008**

Field Office 8111 S. Emerson Ave., Indianapolis, IN

Temporary Job Site _____

PROGRAM SCOPE

The licensee operated three hospital facilities in southern Indianapolis and surrounding communities as described on the license. Licensee had authorization to use byproduct materials under Sections 35.100, 35.200, 35.300, 35.400, and 35.500, as well as a high-dose-rate (HDR) remote afterloader system and a blood irradiator. While authorized for intravascular brachytherapy (IVB), the licensee had not performed such procedures for over a year. Licensed activities were conducted only at the facilities indicated on the license.

Beech Grove Campus (1600 Albany St., Beech Grove, IN): The licensee performed nuclear medicine procedures and operated a blood irradiator at this facility. The nuclear medicine facility was staffed with three full time technologists who performed approximately 160 procedures monthly, using technetium-99m, xenon-133, and other isotopes. Doses were received as unit doses from a licensed radiopharmacy or prepared from bulk technetium-99m. The licensee performed around four iodine-131 treatments weekly, including ablations, hyperthyroid treatments, and whole body scans, with the iodine-131 in capsule form. In addition, the licensee performed occasional radiopharmaceutical therapies using yttrium-90.

Indianapolis Campus (8111 S. Emerson Ave., Indianapolis, IN): The licensee performed nuclear medicine, HDR, and permanent seed implant procedures at this facility. The nuclear medicine facility was staffed with two technologists who performed approximately 200 procedures monthly, using technetium-99m, xenon-133, and other isotopes. Doses were received as unit doses from a licensed radiopharmacy or prepared from bulk technetium-99m. Licensee performed occasional therapies using yttrium-90 and samarium-153. The radiation therapy staff consisted of two oncologists, three physicists, and two dosimetrists. On average, the staff performed around ten HDR fractions monthly (primarily mammocite), and four permanent seed implants annually using iodine-125 seeds.

Mooresville (1201 Hadley Rd., Mooresville, IN): This facility was not visited during the inspection. According to the Radiation Safety Officer, activities at this facility were limited to diagnostic nuclear medicine procedures.

Performance Observations

The inspector observed one diagnostic administrations of licensed material, including dose preparation and disposal, and noted no concerns with the procedures. Licensee personnel demonstrated dose calibrator constancy tests, survey meter and wipe counter daily checks, package receipt, kit preparation, and daily contamination surveys, as well as daily HDR checks and the use of the blood irradiator. The inspector found no concerns with these activities. The licensee explained procedures for radiopharmaceutical therapies, HDR treatments, and temporary seed implants. The inspector reviewed written directives for these therapies and found no issues. Interviews with licensee staff indicated adequate knowledge of radiation safety principles and procedures. Radiation surveys indicated radiation levels consistent with licensee postings.