

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Barnes-Jewish St. Peter's Hospital  
St. Peters, MO  
REPORT NUMBER(S) 2011-001

2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Lisle, IL 60532

3. DOCKET NUMBER(S)

030-17414

4. LICENSEE NUMBER(S)

24-18968-01

5. DATE(S) OF INSPECTION

March 2, 2011

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied

\_\_\_\_\_ Non-cited violation(s) were discussed involving the following requirement(s):

- ☐ 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11

Statement of Corrective Actions

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Deborah A. Piskura	Deborah A. Piskura	3/2/2011
Branch Chief	Tamara E. Bloomer	TE Bloomer	3/10/11

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

1. LICENSEE  
Barnes-Jewish St. Peter's Hospital  
Department of Radiology  
10 Hospital Drive  
St. Peters, MO 63376  
REPORT NUMBER(S) 2011-001

2. NRC/REGIONAL OFFICE  
U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4351

3. DOCKET NUMBER(S)  
030-17414

4. LICENSE NUMBER(S)  
24-18968-01

5. DATE(S) OF INSPECTION  
March 2, 2011

6. INSPECTION PROCEDURES  
87130, 87131 & 87132

7. INSPECTION FOCUS AREAS  
03.01-03.08

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM  
02120

2. PRIORITY  
3

3. LICENSEE CONTACT  
Constance Courtois, M.D., RSO

4. TELEPHONE NUMBER  
314-653-5810

- ☒ Main Office Inspection      Next Inspection Date: March 2014  
☒ Field Office Inspection Siteman Cancer Center, 150 Entrance Way, St. Peters, MO  
☐ Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This licensee was a small hospital (130+ beds) and authorized to use licensed material permitted by Sections 35.100, 35.200, 35.300, and Pd-103 & I-125 for permanent prostate implants. The nuclear medicine department was staffed with four full-time technologists who performed approximately 300+ diagnostic procedures monthly which included a full spectrum of studies. The licensee received unit doses and bulk Tc-99m from a licensed radiopharmacy. The licensee administered 20+ I-131 treatments for hyperthyroidism and Graves Disease annually (capsule form only). The licensee anticipated that it would expand its use to include I-131 for thyroid carcinoma treatments. The hospital retained the services of a consulting physicist who audited the radiation safety program on a quarterly basis.

The licensed radiation therapy activities were limited to permanent prostate implants using I-125. The patient treatments were performed by 1 authorized user supported by 1 contract medical physicist. The licensee administered approximately 50 I-125 permanent prostate implants each year.

This inspection consisted of interviews with select licensee personnel; a review of select records; tours of the nuclear medicine and radiation oncology departments; and independent measurements. The inspector observed the administration of several diagnostic nuclear medicine procedures. The inspector reviewed the post-treatment plans for five implants with physics personnel. The inspection included observations of dose calibrator QA checks, security of byproduct material, use of personnel monitoring, package receipts and surveys.