

(07-2012)  
10 CFR 2.201

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

James E. Cary Cancer Center  
P.O. Box 551  
Hannibal, MO 63401

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

## 3. DOCKET NUMBER(S)

030-37750

## 4. LICENSE NUMBER(S)

24-32681-01

## 5. DATE(S) OF INSPECTION

May 16, 2016

## 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:


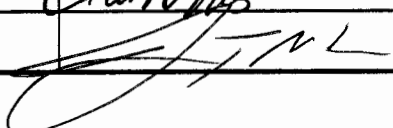
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, 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 in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

## 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	Luis Nieves Folch		5/16/2016
BRANCH CHIEF	Aaron T. McCraw		5/27/16

**Docket File Information**

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6. INSPECTION PROCEDURES USED

87132

7. INSPECTION FOCUS AREAS

03.01-03.07

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)

02230

2. PRIORITY

2

3. LICENSEE CONTACT

Stephen M. Rose, M.S., RSO

4. TELEPHONE NUMBER

(573) 406-5801

☒ Main Office Inspection

Next Inspection Date: May 16, 2018

☐ Field Office Inspection

☐ Temporary Job Site Inspection

**PROGRAM SCOPE**

This was a routine inspection of an out-patient cancer treatment center authorized to use iridium-192 in a high dose-rate remote afterloader brachytherapy (HDR) unit. On average, the licensee conducted 12 radiation therapies a year by one primary medical physicist and by one primary Authorized User. The majority of treatments conducted were MammoSites to treat breast cancer, and some treatments for gynecological cancers were also performed. All HDR patient treatments were administered by the attending oncologist and an authorized medical physicist. HDR sources are exchanged quarterly. The HDR room is no longer shared with a linear accelerator however, the licensee, has implemented interlocks to prevent dual use of the room.

**Performance Observations**

This inspection consisted of interviews with licensee personnel and a review of selected records. There were no patient treatments to observe during the time of the inspection. The authorized medical physicist/radiation safety officer (RSO) demonstrated and discussed: (1) security of licensed material; (2) daily spot checks; (3) emergency equipment and procedures; (4) postings; (5) annual refresher training/emergency drills; (6) medical event assessment and reporting; and (7) surveys of patients following treatment. The inspector reviewed written directives, radiation safety committee meeting minutes, training records, and source calibration records.

No violations of NRC requirements were identified during this inspection.