

## 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) 202101

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

June 1, 2021

**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	Luis A. Nieves Folch	Digitally signed by Luis A. Nieves Folch Date: 2021.06.14 15:51:02 -05'00'
BRANCH CHIEF	Michael Kunowski	Michael A. Kunowski	Digitally signed by Michael A. Kunowski Date: 2021.06.16 06:31:49 -05'00'



## Materials Inspection Record

1. Licensee Name: James E. Cary Cancer Center		2. Docket Number(s): 030-37750		3. License Number(s) 24-32681-01	
4. Report Number(s): 2021001			5. Date(s) of Inspection: June 1, 2021		
6. Inspector(s): Luis Nieves		7. Program Code(s): 02230	8. Priority: 2	9. Inspection Guidance Used: 87132	
10. Licensee Contact Name(s): Stephen Rose, M.S., RSO		11. Licensee E-mail Address: stephen.rose@hannibalregional.org		12. Licensee Telephone Number(s): 573-406-5801	
13. Inspection Type: <input type="checkbox"/> Initial		14. Locations Inspected:		15. Next Inspection Date (MM/DD/YYYY):	
<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		<input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		June 1, 2023 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

**16. Scope and Observations:**

This was an announced 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 an average of four 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.

**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: security of licensed material, daily spot checks, emergency equipment and procedures, postings, annual refresher training/emergency drills, medical event assessment and reporting; and surveys of patients following treatment. The inspector reviewed written directives, radiation safety committee meeting minutes, training records, dosimetry records and source calibration records.

No violations of NRC requirements were identified during this inspection.

**From:** [Nieves Folch, Luis](#)  
**To:** [stephen.rose@hannibalregional.org](mailto:stephen.rose@hannibalregional.org)  
**Subject:** James E Cary Cancer Center 591M NRC  
**Date:** Monday, June 21, 2021 10:07:00 AM  
**Attachments:** [James E Cary Center 591M\(1\)MK.pdf](#)

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Dear Dr. Stephen

Attach is the clear 591 report for the inspection conducted on June 1, 2021. At this point there is no further actions on your part.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this message will be available electronically for public inspection in the NRC's Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <http://www.nrc.gov/reading-rm/adams.html>.

Please feel free to contact me if you have any questions regarding this correspondence.

Thank you,

Luis Nieves  
Health Physicist  
U.S. Nuclear Regulatory Commission  
Division of Nuclear Materials Safety  
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Fax: (630) 515-1259