

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

Southeast Missouri Hospital  
1701 Lacey St.  
Cape Girardeau, MO 63701

REPORT NUMBER(S) 2018001

2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-02264

4. LICENSE NUMBER(S)

24-00128-03

5. DATE(S) OF INSPECTION

May 15, 2018

**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:

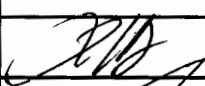
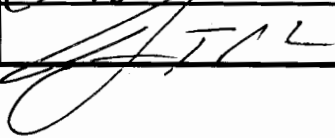
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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		6/8/18
BRANCH CHIEF	Aaron T. McCraw		6/8/19

**Docket File Information**

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6. INSPECTION PROCEDURES USED  87130, 87131, & 87132	7. INSPECTION FOCUS AREAS  03.01-03.08
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02230	2. PRIORITY  2	3. LICENSEE CONTACT  Sam Hancock, Ph.D., RSO	4. TELEPHONE NUMBER  (573) 519-4710
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- Main Office Inspection                      Next Inspection Date: May 15, 2020
- Field Office Inspection    817 and 789 South Mt. Auburn Road, Cape
- Temporary Job Site Inspection    Girardeau, MO

**PROGRAM SCOPE**

This was an unannounced, routine inspection of a hospital authorized by its NRC license to use unsealed byproduct material for diagnostic and therapeutic procedures under 10 CFR 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 and 35.1000 (Y-90) at its facility in Cape Girardeau, Missouri. A local radiopharmacy delivered unit doses to the hospital for a variety of diagnostic procedures. The clinic employed eight full-time nuclear medicine technologists who staffed the departments from Monday to Friday and on call on weekends. The licensee performed approximately seven I-131 per month, two Xofigo per month, three PET(intego) per day, 10 diagnostic procedures per day and 10 Y-90 per year. The licensee has an empty HDR unit that has not been used since 2015.

**PERFORMANCE OBSERVATIONS**

The inspector toured the nuclear medicine laboratory and observed the nuclear medicine technologist demonstrate package receipt surveys and instrument quality control checks. The inspector observed the preparation and administration of one bone scan. The inspector performed independent surveys of the hot lab and other areas of the nuclear medicine department and found no contamination or exposures to members of the public distinguishable from background. The nuclear medicine technologist demonstrated adequate knowledge of radiation safety principles and practices through interviews. The inspector reviewed quarterly audit reports, spill reports, and documentation of package receipt, area surveys, instrument quality control, waste disposal, and employee training. The inspector also reviewed monthly dosimetry reports which indicated annual whole-body and extremity doses below regulatory limits. The inspector verified licensees inventory including their Sr-90 and Gd-153 sources, which have not been used since the last inspection.

No violations of NRC requirements were identified as a result of this inspection.

## Nieves Folch, Luis

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**From:** Nieves Folch, Luis  
**Sent:** Friday, June 08, 2018 8:24 PM  
**To:** 'shancock@sehealth.org'; 'bbucher@sehealth.org'  
**Subject:** NRC 591 Clear Report  
**Attachments:** SKM\_C45818060821100.pdf

Dear Sam and Barb,

Attach is the clear 591 report for the inspection conducted on May 15, 2018, no further actions are required at this moment 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  
Office: (630) 829-9571  
Fax: (630) 515-1259