

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Spectrum Health Big Rapids Hospital 605 Oak Street Big Rapids, MI 49307  REPORT NUMBER(S) 2016001		2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)  030-13879	4. LICENSE NUMBER(S)  21-18566-01	5. DATE(S) OF INSPECTION  June 20, 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	Edward F. Harvey	<i>Edward Harvey</i>	6/20/16
BRANCH CHIEF	Aaron T. McCraw	<i>Aaron T. McCraw</i> for ATM	7/11/16

**Docket File Information**  
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6. INSPECTION PROCEDURES USED  87131	7. INSPECTION FOCUS AREAS  3.01-3.07
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02120	2. PRIORITY  3	3. LICENSEE CONTACT  Evan Boote, Ph.D. - RSO	4. TELEPHONE NUMBER  (231) 592-4243
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Main Office Inspection                      Next Inspection Date: June 20, 2019

Field Office Inspection \_\_\_\_\_

Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was an unannounced, routine inspection of a medical institution authorized to use byproduct materials in Sections 35.100, 35.200, and 35.300. The licensee's nuclear medicine department conducted an average of 20 patient studies per week. The licensee employed one full-time and one part-time nuclear medicine technologists. The majority of diagnostic studies were cardiac imaging; however, the licensee performed a full spectrum of studies as needed. Although authorized, no iodine-131 procedures or other therapeutic radiopharmaceuticals requiring a written directive have been administered since prior to 2002. The licensee received unit doses and multi-dose vials from a licensed nuclear pharmacy.

The inspector observed nuclear medicine staff demonstrate package receipt and surveying procedures, daily dose calibrator constancy checks, daily surveys, and waste disposal procedures. All patient procedures scheduled for the day had been completed prior to the start of the inspection; however the technologist demonstrated adequate knowledge of radiation protection principles, and emergency procedures in the event of a spill when explaining the administration process to the inspector.

The inspector reviewed a selection of licensee records, including program audits, dose calibrator linearity records, dose calibrator accuracy records, source inventories, survey meter calibration records, package receipt logs, and dosimetry. In addition, The inspector performed independent and confirmatory radiation measurements, which indicated results consistent with licensee survey records and postings.

No violations were identified during this inspection.