NRC FORM 591M PART 1
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE
St. Joseph Mercy Port Huron 2601 Electric Avenue Port Huron, Michigan 48060 REPORT NUMBER(S) 2012-001	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-09491	21-15638-01	Sept. 11 , 2012

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 violations(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	Geoffrey Warren		9/11/12
BRANCH CHIEF	Tamara Bloomer		9/20/12

NRC FORM 591M PART 3
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information

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6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87131, 87132	03.01 - 03.07, 03.01 - 03.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
02120	3	J. Charles Smith, M.S.	(810) 985-1564

☑ Main Office Inspection Next Inspection Date: Sept. 2015

☑ Field Office Inspection MHC, 4190 24th Ave, Fort Gratiot, MI

☐ Temporary Job Site Inspection

PROGRAM SCOPE

The licensee was a 120-bed hospital located in Port Huron, Michigan, authorized to use byproduct materials in Sections 35.100, 35.200, 35.300, and 35.400. Licensed activities were conducted only at the facilities identified on the license.

At the main hospital, the nuclear medicine department was staffed with one full-time and one part-time nuclear medicine technologist. The licensee's nuclear medicine staff typically administered 80 diagnostic doses monthly and occasional iodine-131 doses requiring a written directive, with the iodine in capsule form. The diagnostic procedures were predominately technetium-99m hepatobiliary, bone, and cardiac procedures; doses were received as unit doses or prepared from bulk technetium received from a licensed nuclear pharmacy. The radiation therapy department was staffed with one physician authorized user, one medical physicist, and one dosimetrist involved with NRC-regulated activities. The radiation therapy staff annually performed approximately six temporary brachytherapy implants using cesium-137 or occasional iridium-192 sources and six permanent prostate implant procedures using iodine-125 seeds.

At Mercy Health Center in Fort Gratiot, an outpatient facility, the nuclear medicine area was staffed as needed by personnel from the main hospital. On Wednesdays, a technologist performed approximately eight cardiac procedures, and nuclear medicine staff performed approximately ten iodine-131 therapy procedures quarterly using unit doses.

Performance Observations

The inspector observed one diagnostic and one therapeutic administration of licensed materials, including dose preparation and disposal, as well as survey meter and well counter QC, dose calibrator constancy, and package receipt surveys and wipes. Licensee personnel demonstrated daily and weekly contamination surveys and described brachytherapy procedures, including planning, administration, patient care, and follow-up; and a variety of diagnostic procedures. The inspector noted no concerns with these activities. The inspector reviewed written directives for radiopharmaceutical therapies and brachytherapy procedures, and identified no concerns. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. Review of dosimetry records indicated no exposures of concern. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.