

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Borgess Medical Center 1521 Gull Road Kalamazoo, MI 49048</p> <p>REPORT NUMBER(S) 2015-001</p>	<p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352</p>
--	---

<p>3. DOCKET NUMBER(S)</p> <p>030-02115</p>	<p>4. LICENSE NUMBER(S)</p> <p>21-12275-02</p>	<p>5. DATE(S) OF INSPECTION</p> <p>NOVEMBER 18TH, 2015</p>
---	--	---

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:

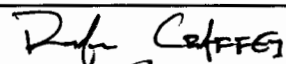
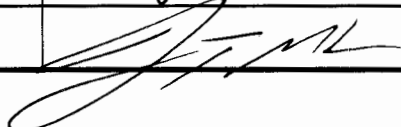
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Ryan Craffey		11/18/15
BRANCH CHIEF	Aaron McCraw		11/25/15

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Borgess Medical Center 1521 Gull Road Kalamazoo, MI 49048 REPORT NUMBER(S) 2015-001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
---	---

3. DOCKET NUMBER(S) 030-02115	4. LICENSE NUMBER(S) 21-12275-02	5. DATE(S) OF INSPECTION November 18, 2015
--------------------------------------	---	---

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

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02120	2. PRIORITY 3	3. LICENSEE CONTACT Paul Jursinic, PhD - RSO	4. TELEPHONE NUMBER (269) 373-7407
---------------------------------	----------------------	---	---

Main Office Inspection Next Inspection Date: 11/18/2018

Field Office Inspection 3035 Capital Avenue SW, Battle Creek, MI

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was an unannounced routine inspection of a hospital authorized to use byproduct material for medical purposes at its main campus in Kalamazoo, Michigan, and at affiliated facilities in Battle Creek and Dowagiac, Michigan. At the time of the inspection, the licensee performed 400 to 500 diagnostic administrations and three to four therapeutic administrations of I-131 capsules monthly at the main hospital on Gull Road in Kalamazoo. The licensee also performed 40 to 50 cardiac stress tests monthly at its newest facility in Battle Creek. The licensee performed manual brachytherapy treatments for prostate cancer approximately once per month at the main hospital on Gull Road, but kept the majority of its records for these administrations at the West Michigan Cancer Center on Park Street in downtown Kalamazoo, where the RSO is also based.

PERFORMANCE OBSERVATIONS: The inspector toured the main hospital on Gull Road in Kalamazoo and the facility in Battle Creek to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector verified that the Battle Creek facility matched the description provided to the NRC in the licensee's amendment request dated January 21, 2014. The inspector conducted independent and confirmatory surveys of these facilities, and found no exposures to members of the public in excess of regulatory limits. The inspector observed the preparation and administration of a cardiac stress tests and a renal scan, as well as the response to minor contamination in restricted areas. The staff also demonstrated the implementation of licensee procedures for therapeutic administrations requiring a written directive (including both I-131 capsules and prostate seed implants), receipt of packages containing licensed material, area surveys, waste handling and spill response. Through these observations, demonstrations and other discussions, the inspector found the licensee's staff to be knowledgeable of radiation protection principles and regulatory requirements.

The inspector also reviewed a selection of licensee records, including written directives and treatment planning and verification documentation for manual brachytherapy procedures, written directives and patient release calculations for I-131 therapies, routine nuclear medicine records including dose calibrator quality control, sealed source inventories and leak tests, personnel training and dosimetry, in addition to incident reports and quarterly consultant audits.

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