

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Bronson Battle Creek Hospital 300 North Avenue Battle Creek, MI 49016 REPORT NUMBER(S) 2014-001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-13899	4. LICENSE NUMBER(S) 21-01354-04	5. DATE(S) OF INSPECTION December 5, 2014
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6. INSPECTION PROCEDURES USED 87131, 87132	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02230	2. PRIORITY 2	3. LICENSEE CONTACT Robert Sieffert, MS - RSO	4. TELEPHONE NUMBER (269) 966-8146
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Main Office Inspection Next Inspection Date: December 2016

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of a community hospital in Battle Creek, Michigan, authorized to use byproduct material under 10 CFR 35.100, 200, 300, 400, and 600. At the time of the inspection, the licensee performed an average of 12 to 15 diagnostic procedures each weekday at its nuclear medicine department. The licensee performed all therapeutic administrations at its radiation oncology department, in addition to 15 HDR brachytherapy treatments (mostly gynecological) this year to date and nine prostate seed implants since the last inspection. The licensee retained the services of a medical physics consultant to perform quarterly audits of the nuclear medicine department. The licensee also maintained a Radiation Safety Committee, which met quarterly.

PERFORMANCE OBSERVATIONS

The inspector toured the nuclear medicine department to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector observed the preparation and administration of one cardiac stress test and one bone scan, both using Tc-99m. The inspector conducted independent and confirmatory surveys, and found no residual contamination or exposures to members of the public in excess of regulatory limits. The technologists on staff demonstrated implementation of procedures for package receipt, waste handling, area surveys, and spill response. The licensee also demonstrated implementation of procedures for administration of therapeutic radiopharmaceuticals, HDR daily and monthly checks including source output measurement and brachytherapy treatment planning and verification. Through these demonstrations and other discussions, the licensee's staff demonstrated adequate knowledge of radiation protection principles, licensee procedures and NRC requirements.

The inspector reviewed the licensee's records for the administration of byproduct material requiring a written directive, including numerous I-131, Sm-153, Y-90 and Ra-223 therapies and a selection of HDR and LDR brachytherapy treatments performed since the last inspection. The inspector also reviewed a selection of nuclear medicine records, dosimetry, quarterly audits and RSC meeting minutes.

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