



**Docket File Information**  
**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  St. John Hospital & Medical Center ATTN: Nuclear Medicine 22101 Moross Road Detroit, Michigan 48236-2172  REPORT NUMBER(S) 2016001	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)  030-02028	4. LICENSE NUMBER(S)  21-03210-01	5. DATE(S) OF INSPECTION  May 26, 2016
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6. INSPECTION PROCEDURES USED  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  Laura Smith	4. TELEPHONE NUMBER  (313) 343-7719
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Main Office Inspection                      Next Inspection Date: 05/26/2018

Field Office Inspection    19229 Mack Avenue, Grosse Point Woods, MI

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

**PROGRAM SCOPE**

This was an unannounced routine inspection of a large hospital authorized by its NRC license to use unsealed byproduct material authorized by 10 CFR 35.100, 35.200, 35.300, 35.400, 35.600, and 35.1000 (I-125 treatments) at its facility in Detroit, Michigan. The licensee receives one Mo/Tc-99 generator (and unit doses for as needed tests) each week from a local radiopharmacy for a wide variety of diagnostic procedures. The hospital employs four full-time and one part-time technologists who perform approximately 15 diagnostic procedures per day and 10-15 HDR procedures per month. The hospital retains the services of a hospital employed medical physicist to perform instrument calibrations, sealed source leak tests, quarterly audits of the radiation safety program and annual ALARA audits. These audits are then reviewed on a quarterly basis by a Radiation Safety Committee (RSC).

Interviews of available staff revealed an adequate level of understanding of emergency and material handling procedures and techniques. Dose calibrator constancy checks, package receipt, daily surveys, and waste handling and disposal procedures were successfully demonstrated. The inspector was not able to observe the preparation and administration of any procedures since none were scheduled at the time of the inspection. The inspector also reviewed seven I-131 and one brachytherapy written directives and four HDR written directives with no concerns to note. The inspector was unable to observe any therapies because none were scheduled during the time of the inspection. A hospital employed medical physicist performed quarterly program audits that were adequate to oversee the program. Licensed material was adequately secured and not readily accessible to members of the general public. The licensee possessed radiation survey meters that were calibrated, operational, and performed well in side-by-side comparison with an NRC instrument. Independent measurements did not indicate readings in excess of Title 10 of the Code of Federal Regulations (10 CFR) Part 20 limits in restricted or unrestricted areas. Personal whole body and extremity dosimetry were observed worn by the staff during the inspection, and records did not indicate doses in excess of 10 CFR Part 20 limits.

No violations of NRC requirements were identified during this inspection.