

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

|  |   |   |  |
|--|---|---|--|
| 1. LICENSEE/LOCATION INSPECTED:<br><br>Providence Hospital<br>Providence Cancer Center<br>22301 Foster Winter Drive, 1 Floor<br>Southfield, MI 48075<br><br>REPORT NUMBER(S) 2017001 |   | 2. NRC/REGIONAL OFFICE<br><br>Region III<br>U. S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, IL 60532-4352 |  |
| 3. DOCKET NUMBER(S)<br><br>030-33776   | 4. LICENSE NUMBER(S)<br><br>21-26632-01 | 5. DATE(S) OF INSPECTION<br><br>February 9, 2017  |  |

**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:

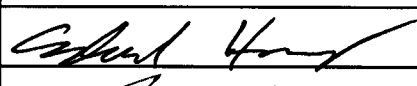
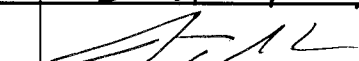
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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 |  | 2/10/17 |
| BRANCH CHIEF              | Aaron T. McCraw  |  | 3/1/17  |

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

|  |   |
|--|---|
| 1. LICENSEE/LOCATION INSPECTED:<br><br>Providence Hospital<br>Providence Cancer Center<br>22301 Foster Winter Drive, 1 Floor<br>Southfield, MI 48075<br><br>REPORT NUMBER(S) 2017001 | 2. NRC/REGIONAL OFFICE<br><br>Region III<br>U. S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, IL 60532-4352 |
|--|---|

|                                      |   |  |
|--------------------------------------|---|--|
| 3. DOCKET NUMBER(S)<br><br>030-33776 | 4. LICENSE NUMBER(S)<br><br>21-26632-01 | 5. DATE(S) OF INSPECTION<br><br>February 9, 2017 |
|--------------------------------------|---|--|

|  |                                      |
|--|--------------------------------------|
| 6. INSPECTION PROCEDURES USED<br><br>87132 | 7. INSPECTION FOCUS AREAS<br><br>All |
|--|--------------------------------------|

**SUPPLEMENTAL INSPECTION INFORMATION**

|                                 |                      |   |   |
|---------------------------------|----------------------|---|---|
| 1. PROGRAM CODE(S)<br><br>02230 | 2. PRIORITY<br><br>2 | 3. LICENSEE CONTACT<br><br>Vrinda Narayana, PhD - RSO | 4. TELEPHONE NUMBER<br><br>(248) 849-8622 |
|---------------------------------|----------------------|---|---|

Main Office Inspection      Next Inspection Date: February 9, 2019

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

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

**PROGRAM SCOPE**

This was an unannounced, routine inspection of the cancer center for Providence Hospital. The facility was a free-standing treatment center, adjacent to the Providence Hospital Southfield campus (NRC License No. 21-02802-03). The licensee was authorized to use iridium-192 within a Varian Medical Systems, Inc. HDR for brachytherapy procedures under 10 CFR 35.600. The licensee performed treatments (mostly gynecological) on approximately 20-30 patients per year.

A field service engineer for the HDR manufacturer was on site to perform a source exchange during the inspection. During the exchange, the inspector observed licensee personnel perform their emergency procedures training. The service engineer extended an inactive source cable out of the HDR unit to simulate a source retraction failure in which the manual retraction crank must be used. This allowed licensee staff involved with treatments to physically operate the hand crank. In addition, the inspector observed a physicist perform both the periodic spot checks and full calibration, as required after a source exchange. Interviews with licensee staff indicated adequate knowledge of radiation safety principles and treatment procedures.

The inspector reviewed a selection of licensee records, including written directives, treatment plans, dosimetry, spot check records, and calibration records with no issues noted. The inspector also performed independent surveys, which revealed no readings that would indicate exposures to members of the public in excess of regulatory limits

No violations of NRC requirements were identified during this inspection.