

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: Indiana University Health West Hospital 1111 North Ronald Reagan Parkway Avon, IN 46123  REPORT NUMBER(S) 2019001		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 030-36611	4. LICENSE NUMBER(S) 13-32526-01	5. DATE(S) OF INSPECTION March 21, 2019	

**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)  
Contrary to Title 10 of the Code of Federal Regulations (CFR) 20.1802, on March 21, 2019, the licensee failed to control and maintain constant surveillance of licensed material that was in a controlled or unrestricted area and that was not in storage. Specifically, a nuclear medicine technologist (NMT) left the hot lab door open and not under direct surveillance, with a maximum of 120 millicuries of technetium-99m and 34 millicuries of Co-57 in the hot lab.

The cause of the violation was the NMT's misunderstanding of what constitutes adequate security and surveillance. As corrective action, the Radiation Safety Officer (RSO) will retrain all the NMTs on adequate security and surveillance of the hot lab and lock the two outside doors that give access to the nuclear department and hot lab in order to control the area.

**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	ROBERT T. ANGER, JR. <sup>RSO</sup>	<i>Robert T. Anger, Jr.</i>	4/16/19
NRC INSPECTOR	Luis Nieves Folch	<i>[Signature]</i>	4/12/19
BRANCH CHIEF	Aaron T. McCraw	<i>[Signature]</i>	4/12/19

**Docket File Information**  
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6. INSPECTION PROCEDURES USED  87130	7. INSPECTION FOCUS AREAS  03.01-03.08
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  02121	2. PRIORITY  5	3. LICENSEE CONTACT  Robert Anger, RSO	4. TELEPHONE NUMBER  (317) 290-8900
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Main Office Inspection                      Next Inspection Date: March 21, 2024

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

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

**PROGRAM SCOPE**

This was an unannounced, routine inspection of community hospital authorized by its NRC license to use unsealed byproduct material for diagnostic procedures under 10 CFR 35.100 and 35.200. The nuclear medicine department was staffed with two full-time nuclear medicine technologists (NMTs) who performed approximately nine diagnostic nuclear medicine procedures daily, primarily bone scan, thyroid, HIDA, cardiac, and gastric emptying studies. The licensee contracted a consultant health physicist to perform annual audits of the radiation safety program.

**PERFORMANCE OBSERVATIONS**

The inspector toured the nuclear medicine laboratory and observed an NMT demonstrate package receipt surveys and instrument quality control checks. The inspector performed independent surveys of the hot lab and other areas of the nuclear medicine department and found no contamination or exposures to members of the public distinguishable from background. The inspector observed the preparation and administration of one cardiac stress study. The NMT demonstrated adequate knowledge of radiation safety principles and practices through interviews. The inspector reviewed quarterly audit reports, spill reports, and documentation of package receipt, area surveys, instrument quality control, waste disposal, and employee training. The inspector also reviewed monthly dosimetry reports, which indicated annual whole-body and extremity doses below regulatory limits.

One violation was identified during this inspection, concerning maintaining control of the material when not under direct surveillance, as documented on Part 1 of this Form.