NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMMISSION								
10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCATION INSPECTED: 2. NRC/REGIONAL OFFICE								
Indiana Universit	ty Health Arnett Hospital	Region III						
5165 McCarty Ln.			U. S. Nuclear Regulatory Commission					
Lafayette, IN 47905			2443 Warrenville Road, Suite 210					
			Lisle, IL 60532-4352					
REPORT NUMBER(S) 2019001								
3. DOCKET NUMBER(S)		4. LICENSE NUMBER						
030-37189		13-32535-02		12/6/2019, with in-office				
				review through 1/29/2020				
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:								
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3. The violations(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 discuss	ed involving the follo	wing requirement(s):					
cited in a with 10 C	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			<b>,</b>					
NRC INSPECTOR	Jason D. Draper, Health Physicis	t #	non		1/30/20			
BRANCH CHIEF	Robert Ruiz, Acting	K	Allinete	ARUTA	1/30/20 1/30/2020			
NRC FORM 591M PART	1 (07-2012)		//	/				

U.S. NUCLEAR REGULATORY COMMISSION (07-2012) Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION							
1. LICENSEE/LOCATION INSPE	CTED:		2. NRC/REGIONAL OFFICE				
Indiana University Heal 5165 McCarty Ln. Lafayette, IN 47905 REPORT NUMBER(S) 2019		•	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352				
3. DOCKET NUMBER(S)		4. LICENSE NUMBER(	S)	5. DATE(S) OF INSPECTION			
030-37189		13-32535-02		12/6/2019, with in-office review through 1/29/2020			
6. INSPECTION PROCEDURES USED		7. INSPECTION FOCU	7. INSPECTION FOCUS AREAS				
87131		03.01-03.09	03.01-03.09				
SUPPLEMENTAL INSPECTION INFORMATION							
1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTAG	СТ	4. TELEPHONE NUMBER			
02240	2	Danielle Owens	, CNMT	(765) 256-0145			
✓ Main Office Inspection		Next Inspection	n Date: 12/06/20	21			
Field Office Insp	ection	·					
Temporary Job	Site Inspection						
PROGRAM SCOPE							

This was an unannounced, routine inspection of a hospital in Lafayette, Indiana, authorized to use byproduct materials permitted by 10 CFR 35.100, 35.200, and 35.300 for diagnostic and therapeutic nuclear medicine procedures, as well as yttrium-90 microspheres for therapeutic administrations. At the time of the inspection, the licensee employed four full-time and two part-time nuclear medicine technologists (NMTs) who performed administrations of unit dosages of radiopharmaceuticals Monday through Friday. The licensee also trained five stress laboratory nurses to administer stress dosages of technetium-99m. The licensee performed diagnostic administrations for approximately 10-15 patients per day using primarily technetium-99m. The licensee also performed 80-100 iodine-131 administrations per year and had administered radium-223 dichloride to three patients and yttrium-90 microspheres to three patients since the last inspection. The licensee's radiation safety program was reviewed quarterly by a medical physics consultant. The inspector performed in-office review through January 29, 2020, to review regulatory guidance that was unavailable at the time of the inspection.

## PERFORMANCE OBSERVATIONS

The inspector toured the nuclear medicine department to observe material security, postings, and any other potential hazards to the material. The inspector also performed independent surveys to verify there was no unidentified contamination. There were no therapeutic administrations during the inspection, so the inspector observed three diagnostic administrations of technetium-99m radiopharmaceuticals. The inspector also interviewed the NMTs with regard to radiation safety practices, emergency procedures, package receipt, instrument calibrations, and surveys. The inspector found the NMTs to be knowledgeable of radiation safety practices and the licensee's procedures. The inspector also reviewed a sample of records including written directives, patient release records, inventories, leak tests, equipment calibrations, surveys, dosimetry, radiation safety training, periodic programs reviews, and radiation safety committee meeting minutes, and did not identify any issues of more than minor regulatory concern.

No findings of significance were identified.

## Draper, Jason

From: Sent: To: Subject: Attachments: Draper, Jason Thursday, January 30, 2020 3:43 PM jnepute@iuhealth.org; Owens, Danielle NRC Form 591M - IU Health Arnett Hospital SKM\_C45820013016320.pdf

## Dr. Nepute,

As we discussed in our telephone call on January 29, 2020, attached is the inspection report for the routine NRC inspection I performed at your facility in Lafayette, Indiana, on December 6, 2019. Please review and keep this document for your records. There is no response required, though I would appreciate an email confirming that you have received the document. Let me know if you have any questions.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if you choose to provide one, will be made available electronically for public inspection in the NRC's Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a>. To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be made publicly available without redaction.

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Jason Draper Health Physicist (Inspector) NRC/RIII/DNMS/MIB (630) 829-9839 jason.draper@nrc.gov