NRC FORM 591M (07-2012)				CLEAR REGULATO	RY COMMISSION			
10 CFR 2.201	SAFETY INSPECTION	REPORT AN	D COMPLIANCE IN:	SPECTION				
1. LICENSEE/LOCA	TION INSPECTED:		2. NRC/REGIONAL OFFICE					
	Veterans Affairs	n						
Under Secretar			Region III					
Washington, D.		-	U. S. Nuclear Regulatory Commission					
Location: VA	New Jersey Health Care System,	E. Orange, NJ	2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352					
	R(S) 03034325/2018004		-1010, 12 00002 1002					
3. DOCKET NUMBER	2(S)	4. LICENSE NUMBER	(S)	5. DATE(S) OF INSPEC	CTION			
030-34325		03-23853-01VA		August 6-7, 2018	8			
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 of	on the inspection findings, no violations v	vere identified.	ons by the inspector. The inspe	ection findings are as	follows:			
	s violation(s) closed.							
3. The viol								
	Non-cited violation(s) were discuss	sed involving the follo	wing requirement(s):					
			, ,,					
with 10 C	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)							
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I haraby state that		ement of Correct						
COLLECTIVE ACTIONS 19	vithin 30 days, the actions described by r made in accordance with the requiremer iance will be achieved). I understand that	Nts of 10 CFR 2 2017	corrective stens already taken	corrective stone which	مميلمة مط القيدط			
TITLE	PRINTED NAME		SIGNATURE	apositionity in	DATE			
LICENSEE'S REPRESENTATIVE								
NRC INSPECTOR	Shawn Seeley	Pat			9/5/2019			
BRANCH CHIEF	Patricia J. Pelke	R.	eltina See)	9/5/2018			

NRC FORM 591M PART 1 (07-2012)

NRC FORM 591M PART 3 U.S. NUCLEAR REGULATORY COMMISSION							
Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION							
1. LICENSEE/LOCATION INSPECTED: 2. NRC/REGIONAL OFFICE							
Department of Veterans A							
Under Secretary of Health			Region III	~			
Washington, D.C. 20420)		U. S. Nuclear Regulato				
Location: VA New Jersey	Health Care System,	, E. Orange, NJ	2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352				
REPORT NUMBER(S) 030343	325/2018004		(4)				
3. DOCKET NUMBER(S)		4, LICENSE NUMBER(S	5)	5. DATE(S) OF INSPECTION			
030-34325		03-23853-01VA		August 6-7, 2018			
6. INSPECTION PROCEDURES USE 87131, 87134, 87126	ED .	7. INSPECTION FOCUS AREAS A11					
0/151, 0/15-1, 0/120	SUPPLEMI		ON INFORMATION				
1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTAC		4. TELEPHONE NUMBER			
03614	2	Ed Leidholdt, I	Ph.D., Acting Director	(501) 257-1571			
Main Office Inspec	tion	Next Inspection	Date:				
✓ Field Office Inspec	tion VA NJ Health	Care System, E.	Orange, NJ				
Temporary Job Sit	e Inspection	RSO: Venkata	Lanka				
		PROGRAM SC	OPE				
This was an unannounced, routine inspection of a permittee under the Department of Veterans Affairs (DVA) Master Materials License. The permittee was a broad scope medical facility operating under a permit issued by the DVA's National Health Physics Program (NHPP) and authorized for medical diagnosis, therapy (both unsealed and sealed), and research in humans. The permittee is also authorized for research and development, including animal studies, instrument calibration, student instruction, and in vitro studies.							
The hospital has a full-time Radiation Safety Officer (RSO) and an assistant RSO, and two medical physicists. The RSO and an assistant RSO oversee day-to-day radiation safety activities, including providing radiation safety and hazmat training, instrument calibration, sealed source inventory and leak tests, surveys, and program audits. The Radiation Safety Committee (RSC) oversees the program and meets quarterly.							
The nuclear medicine (NM) department was staffed with three nuclear medicine technologists (NMT) working in standard nuclear medicine area. The NM department operated Monday through Friday, performing a variety of procedures. Permittee staff typically performed around 8 nuclear medicine (primarily cardiac) diagnostic procedures daily using unit doses provided by local radiopharmacies. All doses were assayed in the dose calibrator prior to administration. In addition, NM staff performed approximately 12 therapeutic administrations of I-131 (capsule only), and eight Ra-223 Xofigo per year. They are hoping to get their PET facility up and running by November. In the radiation oncology department, one authorized user performed 20-24 permanent I-125 prostate seed implants per							
year. The permittee is authorized for high dose rate remote afterloader (HDR) procedures. However, the last use was in 2016. They are exchanging the source through Nucletron at least quarterly.							
At the time of the inspection, the permitee had no active research labs.							
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NRC FORM 591M PART 3 U.S. NUCLEAR REGULATORY COMMISSION (07-2012) (40 CFB 2 201								
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCATION INSPECT	ED:		2. NRC/REGIONAL OFFICE					
Department of Veterans A Under Secretary of Health Washington, D.C. 20420 Location: VA New Jersey REPORT NUMBER(S) 030343	Health Care System,	, E. Orange, NJ	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352					
3. DOCKET NUMBER(S)	323/2018004	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION				
030-34325		03-23853-01VA		August 6-7, 2018				
6. INSPECTION PROCEDURES USE 87131, 87134, 87126	ED	7. INSPECTION FOCUS AREAS All						
SUPPLEMENTAL INSPECTION INFORMATION								
1, PROGRAM CODE(S) 03614	2, PRIORITY 2	3. LICENSEE CONTACT Ed Leidholdt, Ph.D., Acting Director 4. TELEPHONE NUMBER (501) 257-157		4. TELEPHONE NUMBER (501) 257-1571				
Main Office Inspec	tion	Next Inspection	n Date:					
Field Office Inspection VA NJ Health Care System, E. Orange, NJ								
Temporary Job Site Inspection RSO: Venkata Lanka								
		PROGRAM S	COPE					
(cont'd. from previous page)								
The inspector toured the facility to evaluate the permittee's measures for materials security, hazard communication and exposure control. The inspector observed permittee staff performing several diagnostic administrations of licensed material including dose preparation and disposal. No therapeutic procedures involving sealed or unsealed material were conducted by the permittee at the time of the inspection. Permittee staff discussed and/or demonstrated various procedures, including package receipt and opening, dose calibrator QA/QC, daily and weekly contamination surveys, and waste handling.								
Permittee staff also demonstrated the implementation procedures for prostate seed implant and HDR programs.								
The inspector performed independent and confirmatory radiation surveys which indicated results consistent with survey								

The inspector performed independent and confirmatory radiation surveys which indicated results consistent with survey records, regulatory limits, and postings. The inspector reviewed a selection of records including program reviews and audits, dosimetry, RSC meeting minutes, written directives and treatment verifications for I-131, Xofigo, and prostate seed implants, HDR procedures, HDR daily QC and spot checks, leak tests and inventories, instrument calibrations, and dosimetry. The review of dosimetry records indicated no exposures of regulatory concern. The inspector discussed with the RSO the importance of documenting the sealed source inventory, especially for the sources in storage and not being used. He is updating the inventory on the NHPP website at least annually. The inspector recommends that the next NHPP inspector follow-up with the permittee in this area during the next routine inspection.

The inspector reviewed the permittee's follow-up to an event that was reported to the NRC on 05/03/17 (Event Notification #52728; NMED # 170236). A Program Manager with the VA National Health Physics Program (NHPP) reported a series of 6 medical events (10 CFR 35.3045(a)) at the VA New Jersey Health Care System, East Orange, NJ where the administered dose was different from the prescribed dose specified on the written directive.



NRC FORM 591M PART 3 **U.S. NUCLEAR REGULATORY COMMISSION** (07-2012) 10 CFR 2.201 Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION 1. LICENSEE/LOCATION INSPECTED: 2 NRC/REGIONAL OFFICE Department of Veterans Affairs Region III Under Secretary of Health U. S. Nuclear Regulatory Commission Washington, D.C. 20420 2443 Warrenville Road, Suite 210 Location: VA New Jersey Health Care System, E. Orange, NJ Lisle, IL 60532-4352 REPORT NUMBER(S) 03034325/2018004 3. DOCKET NUMBER(S) 4. LICENSE NUMBER(S) 5. DATE(S) OF INSPECTION 030-34325 03-23853-01VA August 6-7, 2018 6. INSPECTION PROCEDURES USED 7. INSPECTION FOCUS AREAS 87131, 87134, 87126 A11 SUPPLEMENTAL INSPECTION INFORMATION 1. PROGRAM CODE(S) 2. PRIORITY 3. LICENSEE CONTACT 4. TELEPHONE NUMBER 03614 Ed Leidholdt, Ph.D., Acting Director (501) 257-1571 Main Office Inspection

PROGRAM SCOPE

RSO: Venkata Lanka

Next Inspection Date:

The medical events were identified by the NHPP Program Manager during a routine inspection on May 2, 2017.

Field Office Inspection VA NJ Health Care System, E. Orange, NJ

Temporary Job Site Inspection

The events occurred between December 2015 and March 2017; four resulted from the use of a pre-printed written directive form where an incorrect dosage unit was selected (millicuries) when the actual prescribed dosage unit was microcuries. In these fours cases, the actual doses administered (prescribed microcurie doses) were correct and the written directives were wrong. The fifth event involved a 121 microcurie dosage of radium-223 Xofigo where the prescribed dose on the written directive stated 211 microcuries, but the correct dosage (121 microcuries) was administered. The physician transposed the numbers on the written directive. The sixth event involved a dosage of 25.9 millicuries of I-131 (which was intended); however, the written directive specified a prescribed dosage of 25 mCi radium-223 Xofigo. In all the events identified, the correct isotope and doses were administered. The events were the result of written directives (WD) that contained inaccurate information.

Immediately after the discovery of these events in May 2017, the permittee initiated a review of the form utilized for the WD. The WD form was revised to clearly delineate which isotope and dosage was being prescribed. Additionally, the permittee implemented its corrective actions outlined in the NHPP letter dated May 18, 2017, and trained all users on the revised procedures and WD form. In addition, the permittee ensured the revised WD and procedures were implemented by instituting a review of all WDs upon completion by the RSO, which includes the date reviewed and RSO signature on the WD, and increasing the review of the nuclear medicine program by the RSO.

There were no issues identified regarding the WDs and RSO oversight at the time of the NRC inspection. Based on this review, NMED #170236 is considered closed.

An exit briefing was held with the RSO, the chair of the RSC and representatives of hospital management, to discuss the results of the inspection. Within the scope of the inspection, no violations were identified.