NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMMISSION (07-2012)							
10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION							
1. LICENSEE/LOCATIO)N INSPECTED:		2. NRC/REGIONAL OFFICE				
Terre Haute Re 3901 South 7th Terre Haute, IN	N 47802		Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352				
		14 LICENSE NUM	DED/0\	LE DATE(S) OF INSDECT	IONI		
3. DOCKET NUMBER(S) 030-09540		13-09649-0		5. DATE(S) OF INSPECTI 10/30/17, with con office review throu	ntinued in-		
LICENSEE:							
The inspection was a Regulatory Commiss	an examination of the activities conducte sion (NRC) rules and regulations and the esentative records, interviews with pers	e conditions of yo	our license. The inspection consist	ed of selective examinat	tions of		
1. Based on	n the inspection findings, no violations w	vere identified.					
2. Previous	violation(s) closed.						
non-repet	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	sed involving the f	followina reauirement(s):				
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, Code of Federal Regulations (CFR), 35.67(b)(2), between June 26, 2015, and October 30, 2017, the licensee failed to test five cesium-137 sealed brachytherapy sources (AEA Technology Model CDC. T1) for leakage at intervals not to exceed 6 months, as specified in SS&D Certificate IL-136-S-933-S. The inspector determined that the root cause of the violation was a misunderstanding by the Radiation Safety Officer (RSO) of the required leak test interval for these particular manufacturer/model sources, in that the instructions for similar brachytherapy sources, differing in manufacturer and model number, possessed by the (cont'd. on next page)							
corrective actions is	Sta vithin 30 days, the actions described by made in accordance with the requireme liance will be achieved). I understand th	me to the Inspecents of 10 CFR 2.	.201 (corrective steps already taker	n, corrective steps which	n will be taken,		
TITLE	PRINTED NAME		SIGNATURE		DATE		
LICENSEE'S REPRESENTATIVE	Edward Johnston	R50. 8	dward John	ton	3/16/21		
NRC INSPECTOR	Dennis P. O'Dowd, Health Physic	I	Dennis P. O'Dowd	Digitally signed by De Date: 2021.02.11 16:5			
BRANCH CHIEF	Michael A. Kunowski, Branch C	hief /	Michael A. Kunowski Digitally s	signed by Michael A. Kunowski 21.02.16 10:54:57 -06'00'			

NRC FORM 591M PART 2 (07-2012) 10 CFR 2.201 SAFETY INSPECTION F	REPORT AND		CLEAR REGULATORY COMMISSION PECTION
1. LICENSEE/LOCATION INSPECTED:	et agustus in relacelo ago agrapia y la Charachea Martinett est un sacrapa en adordo esta esta esta esta esta e	2. NRC/REGIONAL OFFICE	
Terre Haute Regional Hospital 3901 South 7th Street Terre Haute, IN 47802 REPORT NUMBER(S) 2017001		Region III U. S. Nuclear Regulato 2443 Warrenville Road Lisle, IL 60532-4352	
3. DOCKET NUMBER(S)	4. LICENSE NUMBER	(S)	5. DATE(S) OF INSPECTION
030-09540	13-09649-02	` ,	10/30/17, with continued in- office review through 11/16/17
(Continued) (cont'd. from previous page)			
licensee, specified a leak test frequency of every sources tested for leakage within 30 days of the committed to updating its calendar to ensure that every six months.	date of the inspe	ction exit. For long-term	corrective action, the licensee

NRC FORM 591M PART 3 U.S. NUCLEAR REGULATORY COMMISSION Docket File Information 10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION 1. LICENSEE/LOCATION INSPECTED: 2. NRC/REGIONAL OFFICE Terre Haute Regional Hospital Region III 3901 South 7th Street U. S. Nuclear Regulatory Commission Terre Haute, IN 47802 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352 REPORT NUMBER(S) 2017001 3. DOCKET NUMBER(S) 5. DATE(S) OF INSPECTION 4. LICENSE NUMBER(S) 10/30/17, with continued in-13-09649-02 030-09540 office review through 11/16/17 6. INSPECTION PROCEDURES USED 7. INSPECTION FOCUS AREAS 87131 3.01-3.07 SUPPLEMENTAL INSPECTION INFORMATION 3. LICENSEE CONTACT 1. PROGRAM CODE(S) 2. PRIORITY 4. TELEPHONE NUMBER 02120 Edward Johnston III, RSO 3 (812) 251-6797 10/30/2020 ✓ Main Office Inspection Next Inspection Date: Field Office Inspection Temporary Job Site Inspection **PROGRAM SCOPE** This was a routine inspection of a large community hospital (270 beds) authorized under NRC license to use byproduct materials for medical uses permitted by 10 CFR 35.100, 35.200, 35.300, and 35.400. The nuclear medicine department was staffed with two full-time nuclear medicine technologists who performed approximately 160 diagnostic nuclear medicine procedures monthly. The licensee work hours were from 7 AM- 4 PM, Monday through Friday. The licensee no longer used materials at the Premier Diagnostic Imaging office, and that location was removed from the license (Amendment 68, issued 03/22/17). The licensee retained a consulting physicist who audited the nuclear medicine radiation safety program on a quarterly basis. The licensee received both unit and bulk doses at the nuclear medicine department. The licensee maintained an active Iodine-131 (I-131) therapy program. Typically in a year, the licensee administered about 20 I-131 treatments for hyperthyroidism, and approximately 10 thyroid ablations. The licensee's Cancer Center was staffed with one oncologist, one medical physicist and one dosimetrist, who administered one to two Cs-137 temporary implants annually and approximately 12 I-125 permanent prostate implants annually. The licensee had not used Ir-192 source for the manual brachytherapy program since 2011. Performance Observations This inspection consisted of interviews with select licensee personnel; tours of the nuclear medicine and radiation oncology departments, and the radioactive material storage area; independent measurements; and a review of select records. No patient administrations were performed at the time of the inspection. Interviews with licensee personnel indicated an adequate level of understanding of emergency and material handling procedures and techniques, and knowledge of radiation safety concepts. The licensee's staff discussed and/or successfully demonstrated the following: (1) package receiving and check-in procedures (including receipt surveys); (2) security of licensed material; (3) dose prep and safe use; (4) daily surveys and weekly wipe tests; (5) survey meter use and calibrations; (6) waste handling; (7) sealed source inventories and leak tests; (8) dose calibrator tests; (9) radiation safety program audits; (10) HAZMAT refresher training; (11) contamination events (none); and (12) dosimetry. The inspector reviewed (with no issues identified): written directives, for those materials and uses requiring a written directive; patient release calculations; and gynecological and prostate pre- and post-treatment plans.

(cont'd on next page)

NRC FORM 591M PART 3 U.S. NUCLEAR REGULATORY COMMISSION (07-2012) 10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION						
LICENSEE/LOCATION INSPECTS	ED:		2. NRC/REGIONAL OFFICE			
Terre Haute Regional H 3901 South 7th Street Terre Haute, IN 47802	ospital		Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352			
REPORT NUMBER(S) 20170	01					
3. DOCKET NUMBER(S) 030-09540		4. LICENSE NUMBER(S 13-09649-02	5)	5. DATE(S) OF INSPECTION 10/30/17, with continued in- office review through 11/16/17		
6. INSPECTION PROCEDURES USI	ED	7. INSPECTION FOCUS				
87131		3.01-3.07	3.01-3.07			
			ON INFORMATION			
1. PROGRAM CODE(S) 02120	2. PRIORITY 3	3. LICENSEE CONTAC Edward Johnsto		4. TELEPHONE NUMBER (812) 251-6797		
✓ Main Office Inspec	ction	Next Inspection	Date: 10/30/202	20		
Field Office Inspec	ction					
Temporary Job Sit	e Inspection					
		PROGRAM SC	OPE			
(cont'd. from previous pa	ge)					
Licensed material was observed as adequately secured during the review and was not readily accessible to members of the general public. Survey meters were found to be calibrated and operational. The inspector performed independent and confirmatory radiation measurements that indicated results consistent with licensee survey records and postings. Independent measurements taken did not indicate readings in excess of 10 CFR Part 20 limits in restricted or unrestricted areas. Personal dosimetry was observed being worn by the staff during the inspection. Dosimetry records reviewed for the previous years since the last inspection through YTD 2017 indicated whole body and extremity exposures <10% of the annual regulatory limits.						
During the inspection, the inspector identified a violation of 10 CFR 35.67(b)(2), in that the licensee failed to leak test five cesium-137 sealed brachytherapy sources (AEA Technology Model CDC.T1, Sealed Source and Device Certificate IL-136-S-933-S) since June 26, 2015, a period greater than the required period of six months. The violation and the licensee's corrective actions are described in Part 1. The licensee committed to completing the required leak tests of the sources within 30 days of the exit date of the inspection, and to maintaining in its calendar the required dates of the leak test for these sources. The inspector determined that the root cause of the violation was the Radiation Safety Officer's misunderstanding of the required leak test frequency for these particular manufacturer/model number sources.						



UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532-4352

March 2, 2021

Terre Haute Regional Hospital ATTN: Edward E. Johnston, III 3901 South 7th Street Terre Haute, IN 47802

SUBJECT: SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION, REPORT NO. 030-09540/2017001 – TERRE HAUTE REGIONAL HOSPITAL

Dear Mr. Johnston:

On October 30, 2017, the United States Nuclear Regulatory Commission (NRC) conducted an on-site inspection of the activities authorized under NRC License No. 13-09649-02, with in-office review through November 16, 2017. After the telephonic exit conference with you on November 16, 2017, an NRC Form 591M, "Safety Inspection Report and Compliance Inspection" was issued. This form listed one violation identified during this inspection for the failure to test certain sealed brachytherapy sources containing millicurie quantities of cesium-137 for leakage at intervals as prescribed in the Sealed Source and Device (SS&D) certificate for these sources. However, as identified during a recent review of your file and confirmed in several recent conversations with you, the sources involved that required leak testing at a sixmonth interval were those described in SS&D Certificate IL-136-S-933-S and not by SS&D Certificate No. NR-460-S-906-S as was listed in the NRC Form 591M issued to you in 2017.

As a result of this determination, and in order to be accurate in the findings of the inspection conducted in 2017 of your licensed activities, we are rescinding the NRC Form 591M dated November 22, 2017, and have issued a revised, corrected NRC Form 591M (enclosed) that references the correct SS&D Certificate number and specifically identifies the manufacturer and model number of the sealed brachytherapy sources that were required to have been leak tested at the specified six-month interval.

Please enter your name and title and sign and date the attached Form in the section marked "Licensee's Representative" and provide a copy of the signed form to the NRC by fax to 630-515-1259 or by email to Dennis.O'Dowd@NRC.gov.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and the Form with your signature will be available electronically in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

If you have any questions regarding this matter, please do not hesitate to contact Mr. Dennis P. O'Dowd, Health Physicist, of my staff, at 630 829-9573.

Sincerely,

Digitally signed by Michael A. Michael A. Kunowski Kunowski Date: 2021.03.02 08:47:25 -06'00'

Michael Kunowski, Chief Materials Inspection Branch Division of Nuclear Materials Safety

Docket No. 030-09540 License No. 13-09649-02

Enclosure: NRC Form 591M

Letter to Edward Johnston, III from Michael Kunowski dated March 2, 2021.

SUBJECT: SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION, REPORT NO. 030-09540/2017001 – TERRE HAUTE REGIONAL HOSPITAL

ADAMS Accession Number: ML21060B372

OFFICE	RIII-DNMS	C	RIII-DNMS	С		
NAME	DO'Dowd:ps		MKunowski			
DATE	2/19/2021		3/02/2021			

OFFICIAL RECORD COPY

O'Dowd, Dennis

From: Johnston Edward < Edward. Johnston@hcahealthcare.com>

Sent: Tuesday, March 16, 2021 3:57 PM

To: O'Dowd, Dennis

Subject: [External_Sender] Re:Transmittal of Retraction Letter dated March 2, 2021 and Corrected NRC Form

591M (Parts 1 & 2) "Safety Inspection Report and Compliance Inspection" for Inspection in October -

November 2017, for Licensee's Name, Signature, and Date

Attachments: Reissuance of 11-16-2017 Inspection .pdf

Follow Up Flag: Follow up Flag Status: Completed

Dennis

See Attachment

Thanks Ed

From: O'Dowd, Dennis < Dennis.O'Dowd@nrc.gov>

Sent: Tuesday, March 16, 2021 3:08 PM

To: Johnston Edward <Edward.Johnston@hcahealthcare.com>

Subject: {EXTERNAL} FW: Transmittal of Retraction Letter dated March 2, 2021 and Corrected NRC Form 591M (Parts 1 & 2) "Safety Inspection Report and Compliance Inspection" for Inspection in October - November 2017,

for Licensee's Name, Signature, and Date

CAUTION! This email originated from outside of our organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

From: O'Dowd, Dennis

Sent: Thursday, March 11, 2021 4:17 PM
To: edward.johnston@hcahealthcare.com

Subject: Transmittal of Retraction Letter dated March 2, 2021 and Corrected NRC Form 591M (Parts 1 & 2) "Safety Inspection Report and Compliance Inspection" for Inspection in October - November 2017, for Licensee's

Name, Signature, and Date

Edward Johnston III, Radiation Safety Officer Terre Haute Regional Hospital 3901 South 7th Street Terre Haute, Indiana 47802

Dear Mr. Johnston:

Please find attached a Retraction Letter dated March 2, 2021, and a reissued, corrected Form 591M (Parts 1 and 2), "Safety Inspection Report and Compliance Inspection," signed by me and Michael A. Kunowski, Chief, Materials Inspection Branch, Division of Nuclear Materials Safety, U.S. Nuclear Regulatory Commission (NRC), Region III, originally issued in response to our the inspection of your licensed program conducted in October – November 2017. The purpose of that inspection was to review activities performed under your NRC license to ensure that activities were being performed in accordance with NRC requirements.

Based on the results of that inspection, the NRC had determined that a Severity Level IV violation of NRC requirements had occurred. The violation was evaluated in accordance with the NRC Enforcement Policy, and the NRC cited the violation and had provided you an NRC Form 591M, which has now been retracted, with a corrected NRC Form 591M being provided to you herein. At the conclusion of the 2017 inspection, the NRC concluded that information regarding the reason for the violation, the corrective actions taken and planned to correct the violation and prevent recurrence, and the date when full compliance will be achieved was already adequately addressed in the narrative on the form, and therefore, no further response was requested.

At this time, we request that, if you haven't already, to destroy the previous and discard the previously issued NRC Form 591M (Parts 1 & 2) that was issued to you in November 2017, and that you print your name, sign, and date the attached reissued, corrected NRC Form 591M in the row "Licensee's Representative," scan the signed and dated document, and return it to me via email, so that we can include it in your official license record.

Should you have any questions regarding this or any other related matter, please feel free to contact me.

Dennis P. O'Dowd

Health Physicist
Materials Inspection Branch
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission
2443 Warrenville Road
Lisle, IL 60532
dennis.o'dowd@nrc.gov
630.829.9573 (office)
630.515.1259 (fax)



O'Dowd, Dennis

From: O'Dowd, Dennis

Sent: Thursday, March 11, 2021 4:17 PM edward.johnston@hcahealthcare.com

Subject: Transmittal of Retraction Letter dated March 2, 2021 and Corrected NRC Form 591M (Parts 1 & 2)

"Safety Inspection Report and Compliance Inspection" for Inspection in October - November 2017,

for Licensee's Name, Signature, and Date

Attachments: Terre Haute Reg Hospital NRC591 IR Parts 1&2 reissuance of 11-16-2017 (02-11-2021).pdf; Terre

Haute Reg Hospital Retraction Letter (02-11-2021).pdf

Edward Johnston III, Radiation Safety Officer Terre Haute Regional Hospital 3901 South 7th Street Terre Haute, Indiana 47802

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Should you have any questions regarding this or any other related matter, please feel free to contact me.

Dennis P. O'Dowd

Health Physicist
Materials Inspection Branch
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission
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630.829.9573 (office)
630.515.1259 (fax)

