U.S. NUCLEAR REGULATORY COMMISSION (07-2012) 10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION									
1. LICENSEE/LOCATION INSPECTED: 2. NRC/REGIONAL OFFICE									
Cardinal Health Nuclear Pharmacy Services, Dublin O Location Inspected: 3040 East Elm Street Springfield, MO 65802 REPORT NUMBER(S) 2016004			Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352						
3. DOCKET NUMBER(S		4. LICENSE NUMBE	R(S) 5. DATE(S) OF INSPECTION						
030-36973		34-29200-01MD		May 19, 2016					
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 w	vere identified.							
2. Previous									
3. The violat									
	Non-cited violation(s) were discuss	ed involving the fo	llowing requirement(s):						
cited in ac with 10 C	s inspection, certain of your activities, a coordance with NRC Enforcement Polic FR 19.11. s and Corrective Actions)	cy. This form is a N	IOTICE OF VIOLATION, which m						
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 LICENSEE'S	PRINTED NAME		SIGNATURE		DATE				
REPRESENTATIVE			- Ailler		.//				
NRC INSPECTOR	Luis Nieves Folch		MAG		6/1/2014				
BRANCH CHIEF	Aaron T. McCraw		ATM	_	6316				
NRC FORM 591M PART 1 (07-2012)									

NRC FORM 591M PART 3 (07-2012) 10 CFR 2.201 U.S. NUCLEAR REGULATORY COMMISSION								
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCATION INSPECT	ED:		2. NRC/REGIONAL OFFICE					
1	East Elm Street ngfield, MO 65802	Dublin Ohio	Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352					
REPORT NUMBER(S) 20160 3. DOCKET NUMBER(S)	004	4. LICENSE NUMBER(S	· · · · · · · · · · · · · · · · · · ·	5. DATE(S) OF INSPECTION				
030-36973		34-29200-01MD		May 19, 2016				
6. INSPECTION PROCEDURES USED 87127		7. INSPECTION FOCUS AREAS 03.01-03.07						
	SUPPLEM	ENTAL INSPECTI	ON INFORMATION					
1. PROGRAM CODE(S) 02500	2. PRIORITY 2	3. LICENSEE CONTACT Dane Dishman, NPT, AU, Site RSO		4. TELEPHONE NUMBER (417) 831-5190				
Main Office Inspec	ction	Next Inspection	Date: TBD					
✓ Field Office Inspec	ction 3040 East Elr	n Street, Springfie	ld. MO 65802					
Temporary Job Site Inspection								
PROGRAM SCOPE								
This was an unannounced, routine inspection of a radiopharmacy operating under Cardinal Health's multi-site license. This site, located in Springfield, Missouri, routinely served 15-20 clients in a two-hour range. The pharmacy operated Monday through Friday, with limited hours on weekends. The pharmacy distributed around 80 doses each weekday, primarily in one of two runs. The first run began around 1:30 am, with deliveries out around 3:00 am. The second run began around 8:00 am, with deliveries out around 9:00 am. In addition to compounding doses of technetium-99m and other common isotopes, the pharmacy also compounded a handful of iodine-131 capsules each week. The licensee had three authorized nuclear pharmacists, one pharmacy technician and nine drivers on staff at the time of the inspection.								
Performance Observations: The inspector toured the facility to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector conducted independent surveys of restricted and unrestricted areas, and found no residual contamination or exposures to members of the public in excess of regulatory limits. The inspector observed a variety of activities during the licensee's first run, including dose preparation, outgoing package preparation, client package return and waste handling, incoming generator and area surveys, and delivery vehicle loading. The licensee's staff also demonstrated the implementation of procedures for air effluent monitoring and bioassay for personnel preparing iodine -131 capsules. Through these observations, demonstrations and other discussions, the inspector found the licensee's staff to be knowledgeable of radiation protection principles and regulatory requirements.								
The inspector reviewed a selection of records, including internal and external audits, ALARA and incident reports, dose calibrator quality control records, air effluent monitoring reports, survey meter calibration certificates, hazmat training records, bioassay results and dosimetry reports, which indicated maximum exposures of 150 to 210 millirem whole-body and 0.8 to 2 rem extremity in 2014 through 2016.								

The licensee previously reported a leaking source in April 2014 (NMED 140261). They have deposed of it by transfer to a waste broker. Based on this, the event is closed.

No violations of NRC requirements were identified as a result of this inspection.

Warren, Geoffrey

From: Sent: To: Subject: Attachments: Warren, Geoffrey Friday, June 03, 2016 9:11 AM 'glenn.sullivan@cardinalhealth.com' NRC Inspection Report - Springfield MO CH Spr 5-16 - NRC 591M.pdf

Enclosed is the inspection report for the NRC's May 19 inspection at the Cardinal Health facility in Springfield, Missouri, as we discussed by telephone this morning. No violations were identified as a result of the inspection. No response is required to the report or this e-mail.

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Please contact me if you have any questions.

Geoffrey Warren Senior Health Physicist NRC Region III 630-829-9742

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