NRC FORM 591M PA	RT 1		U.S. NU	CLEAR REGULATORY	COMMISSION			
10 CFR 2.201	SAFETY INSPECTION	REPORT AN	ND COMPLIANCE INS	SPECTION				
1. LICENSEE/LOCATIO	ON INSPECTED:		2. NRC/REGIONAL OFFICE					
Cardinal Health		Design HI						
Nuclear Pharmac	-	Region III U. S. Nuclear Regulatory Commission						
7000 Cardinal Place			2443 Warrenville Road, Suite 210					
Dublin, Ohio 43017			Lisle, IL 60532-4352					
REPORT NUMBER(S								
3. DOCKET NUMBER(S) 4. LICENSE NU			5. DATE(S) OF INSPECTION					
030-36973		34-29200-01N	MD	July 17-18, 2018				
LICENSEE:								
Regulatory Commiss	in examination of the activities conduct ion (NRC) rules and regulations and the esentative records, interviews with pers	e conditions of you	ur license. The inspection consist	ed of selective examinat	ions of			
1. Based on	the inspection findings, no violations v	vere identified.						
2. Previous	ous violation(s) closed. From rpts 2016007 and 2017006							
non-repet	The state of the s							
	Non-cited violation(s) were discuss	sed involving the fo	ollowing requirement(s):					
-								
•								
cited in ac with 10 C	is inspection, certain of your activities, ccordance with NRC Enforcement Poli FR 19.11. s and Corrective Actions)							
corrective actions is	rithin 30 days, the actions described by made in accordance with the requirem	ents of 10 CFR 2.2	or will be taken to correct the viole 201 (corrective steps already take	n, corrective steps which	n will be taken,			
· · · · · · · · · · · · · · · · · · ·	iance will be achieved). I understand to PRINTED NAME	tnat no further writte	en response to NRC will be requi	rea, unless specifically re	equested.			
TITLE LICENSEE'S	TANTEDIAME		SIGNATURE					
REPRESENTATIVE					, ,			
NRC INSPECTOR	Geoffrey Warren, Sr. HP		SJV-		7/18/18			
BRANCH CHIEF	Aaron McCraw		1771		5/2/10			

NRC FORM 591M PART 1 (07-2012)

NRC FORM 591M PART 3 (07-2012)		Dooket Eile Infe	rmation	U.S. NUCLEAR REGULATORY COMMISSION					
Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION									
1. LICENSEE/LOCATION INSPECT		TOTAL ON AND	2. NRC/REGIONAL OF						
			2. NICHLONGE OF	TIGE					
Cardinal Health			Region III						
Nuclear Pharmacy Service 7000 Cardinal Place	es		U. S. Nuclear Regulatory Commission						
Dublin, Ohio 43017				lle Road, Suite 210					
Dubini, Onio 43017			Lisle, IL 6053	2-4352					
REPORT NUMBER(S) 2018)06		<u> </u>	·					
3. DOCKET NUMBER(S)		4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION					
030-36973		34-29200-01MD	· •	July 17-18, 2018					
6. INSPECTION PROCEDURES USED			7. INSPECTION FOCUS AREAS						
87127		03.01 - 03.07	03.01 - 03.07						
	SUPP	LEMENTAL INSPECT		ON					
1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTAC		4. TELEPHONE NUMBER					
02500	2	Glenn Sullivan,	Corp. RSO	(614) 757-9586					
✓ Main Office Inspection Next Inspection Date: July 17, 2020									
Field Office Inspection									
				-					
Temporary Job S	ite Inspection								
PROGRAM SCOPE									
This was a routine announced inspection at the corporate office of Cardinal Health, a company that operated 120									
			•	se facilities operated under the multi-					
			•	ients primarily at medical facilities.					
Nationally, the pharmacies distributed around one million individual doses monthly. In addition, each facility was									
authorized to redistribute sealed sources as calibration sources and brachytherapy sources.									
Cardinal Health employe	d 3000 personne	l at the corporate office	in Dublin, Ohio.	Five personnel at the corporate office					
had primary duties concerning the radiation safety program, and five auditors based around the country performed audits									
at the individual pharmacies. This inspection was focused on the activities performed by corporate staff in support of									
radiation safety at the radiopharmacy facilities.									
Performance Observations: The inspector attended the licenses's radiation safety committee meeting on July 17, 2019									
Performance Observations: The inspector attended the licensee's radiation safety committee meeting on July 17, 2018. Licensee personnel described (1) training and qualification of authorized users, nuclear pharmacists, and radiation safety									
officers; (2) the corporate audit program for radiopharmacy facilities, including rating results, actions taken to correct									
deficiencies and strengthen programs, and oversight of auditors; (3) initial and annual radiation safety training for									
				low-up to doses exceeding ALARA					
	levels; (5) effluent monitoring and public dose calculations; (6) tracking and verification of client licenses and								
authorizations; and (7) follow-up to issues identified through the employee concerns program. The inspector noted no concerns with these activities. Interviews with licensee personnel indicated adequate knowledge of radiation safety									
				ceeding regulatory limits.					
concepts and procedures.	TOVICW OF GOST	meny records maleated	i no exposures ex	cooding regulatory minus.					
<u>-</u>			•	10 CFR 30.41(a) and (b)(5)					
concerning distribution to an unauthorized recipient cited August 4, 2016 in Inspection Report No. 2016007 and (2) the									

violation of License Condition No. 25.A. to the NRC license concerning floor plans and layouts of licensed facilities cited February 20, 2018 in Inspection Report No. 2017006. In addition, the violations have not recurred. Based on this,

the violations are closed. No violations were identified during this inspection.