NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMM						ORY COMMISSION
10 CFR 2.201	SAFETY INSPECTION F			ANCE INS	PPECTION	
				ANOL III	SPECITOR	
LICENSEE/LOCATION INSPECTED:     Cardinal Health 414, LLC		2. NRC/REGIO	NAL OFFICE			
10718 Trenton Ave	enue	Region III:	2443 Warrenville R	Rd., Ste. 210	Lisle, IL 60532-	4352
St. Louis, Missour	i ·				·	
REPORT NUMBER(S	S) 2012001					
3. DOCKET NUMBER(S		4. LICENSE NU	. ,		5, DATE(S) OF INSP	
030-38222		34-32780-01			Oct. 16, 2012	•
Regulatory Commissi	an examination of the activities conducted sion (NRC) rules and regulations and the esentative records, interviews with person	conditions of yo	our license. The inspe	ection consiste	ed of selective exam	ninations of
1. Based on	the inspection findings, no violations we	re identified.				
2. Previous	violation(s) closed.	*				
non-repet	tions(s), specifically described to you by titive, and corrective action was or is being, were satisfied.					
C 1889 MARIANA A ALCONOMICA NA ARABA	Non-cited violation(s) were discussed	d involving the	following requirement	(s):		
	is inspection, certain of your activities, as is form is a NOTICE OF VIOLATION, whi					nts and are being
(Violations	s and Corrective Actions)					
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1						
	State	ement of Cor	rective Actions	According to the second se	***************************************	approximation to transition against stability and a community force of stabilities assessmentation of
corrective actions is m	ithin 30 days, the actions described by monade in accordance with the requirement ance will be achieved). I understand that	e to the Inspect	tor will be taken to cor 201 (corrective steps	already taken,	corrective steps wh	hich will be taken,
TITLE	PRINTED NAME			SIGNATURE		DATE
LICENSEE'S REPRESENTATIVE		-	The state of the s		Phil Villaman and American	
NRC INSPECTOR	Geoffrey M. Warren		Dr W			10/16/12
BRANCH CHIEF	Tamara F. Bloomer		18 10	sacrif amorphis de Mallier (m. 1864), 18 deleg	AND THE CONTRACTOR AND ASSESSMENT AND	10/16/12

NRC FORM 591M PART 3 (07-2012)	Γ	Saakot Eila Info		CLEAR REGULATORY COMMISSION				
Docket File Information SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCATION INSPECTI	ED:		2. NRC/REGIONAL OFFICE					
Cardinal Health 414, LLC 10718 Trenton Avenue St. Louis, Missouri REPORT NUMBER(S) 20120		·	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)	5. DATE(S) OF INSPECTION				
030-38222		34-32780-01		October 16, 2012				
6. INSPECTION PROCEDURES USI	ED		7. INSPECTION FOCUS AREAS					
87125		03.01 - 03.07						
	SUPPLEM		ON INFORMATION					
1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT		4. TELEPHONE NUMBER				
03210	2	Darren Fields, RS	SO	(314) 423-5103				
✓ Main Office Inspec	otion	Next Inspection	Date: October 20	014				
Field Office Inspec	ction			.				
Temporary Job Site Inspection								
		PROGRAM SC	OPE					
This was the initial routine inspection of activities performed under this license. The facility was consistent with maps in the license application provided to NRC.								
employed four cyclotron the pharmacy for prepara weekdays at 9:30 am. F- completed Tuesdays and rem whole body and 25.6 whole body and 14.5 rem limits for exposure. The	oution to Cardinal Heat technologists and one ation of individual uni- 18 FDG runs were con Thursdays at 6:30 am for rem extremity. For an extremity; personnel licensee used remote	alth pharmacies in see engineer. Pharmatit doses. The cyclo ompleted daily at 1 m. The maximum of January through A led duties were rotated thandling tools to research.	St. Louis and Springfield accy drivers picked up by otron was staffed from with 15, 2:30, and 5:30 am, adose received by license august 2012, the maximum anipulate materials ins	d, Missouri. This facility ulk materials for transport to veeknights at 9:30 pm to				
Performance Observations								

The inspector observed hot cell preparation, receipt of F-18 FDG and NaF from the cyclotron, QC analysis, handling of bulk material, NaF chemistry, shielding and packaging of bulk material, surveys and labeling of packages, preparation of shipping papers. blocking and bracing of packages, handling of waste materials, and daily surveys and wipes. Licensee personnel demonstrated FDG chemistry setup and dose calibrator constancy and described sterility testing, cyclotron maintenance and setup, training, and other procedures. The inspector noted no concerns with these activities. Personnel wore appropriate personal protective equipment and dosimetry and stated that there was no tolerance for failure to wear proper dosimetry. Review of dosimetry and survey records indicated no doses of regulatory concern. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.