	NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMMISSION							
10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION								
1. LICENSEE/LOCAT			2. NRC/REGIONAL OFFICE	r CACINA				
Washington University in St. Louis			2 NRC Region III Office NRC Region III Office 2443 Warrenville Rd.					
Washington University in St. Louis Campus			Lisle, IL 60532					
St. Louis	m0							
REPORT NUMBER(S) 2012 - 00 1								
		4. LICENSE NUMBER	R(S)	5. DATE(S) OF INSPECTIO	,			
030-38	767 	24-00	167-14	7/16-20	/12			
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:								
l'/	on the inspection findings, no violations			•				
2. Previou	Previous violation(s) closed.							
non-rep	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 discus	sed involving the foll	owing requirement(s):					
4. During t	his inspection, certain of your activities.	as described below:	and/or attached, were in violation	n of NRC requirements ar	ıd are being			
cited in	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.							
f .	ns and Corrective Actions)							
			,					
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	PRINTED NAME		SIGNATURE		DATE			
LICENSEE'S REPRESENTATIVE								
NRC INSPECTOR	Robert G. Gattone, Jr.		RALLY D. DOLLOW, M.	_	7/20/12			
DDANG!! O' """	Robert P. Hays		John Hon	<u>5 </u>	1/30/13			
BRANCH CHIEF	TAMARA SLOOMER		XX Score		8/7/12			

NRC FORM 591M PART 3 (07-2012)	Docket File Information							
10 CFR 2.201			COMPLIANCE INS	SPECTION				
1. LICENSEE/LOCATION INSPECT	ED:		2. NRC/REGIONAL OFFICE					
Washington University in Washington University in St. Louis, MO			Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352					
REPORT NUMBER(S) 12-00	1		*					
3. DOCKET NUMBER(S)		4. LICENSE NUMBER(S	5. DATE(S) OF INSPECTION					
030-38167		24-00167-14	7/16-20/12					
6. INSPECTION PROCEDURES US	ED	7. INSPECTION FOCUS AREAS						
87125		02.01-02.07						
			ON INFORMATION					
1. PROGRAM CODE(S) 03210	2. PRIORITY 2	3. LICENSEE CONTACT Sue Langhorst, RSO		4. TELEPHONE NUMBER (314) 362-2988				
AND NO.								
✓ Main Office Inspec	Main Office Inspection Next Inspection Date: 07/16/2014							
Field Office Inspection								
Temporary Job Si	te Inspection	The property of the contract o		And Andrews and the Andrews and the Andrews (A)				
		PROGRAM SC	OPE					
The Radiation Safety Officer reported to the Assistant Vice Chancellor for Environmental Health and Safety. The radiation safety personnel were supervised by two senior health physicists, who reported to the Associate RSO. The licensee's radiation safety staff included 12 individuals who are assigned specific duties relating to the radiation safety program to ensure compliance with license requirements. The licensee operated three cyclotrons for the production of radioactive materials (a.k.a. Positron Emission Tomography radiopharmaceuticals) used in medicine (i.e., CS-15 Cyclotron, RDS Cyclotron, and JSW Cyclotron).								
		Performance Obs	ervations					
facilities were posted as ambient exposure rate su result; (5) a Cyclotron Or included pre-work ambie dosimetry badges; (7) the Specialist demonstrate he members knew the action respond if the action level when the steel doors clost the CS-15 Cyclotron if the RDS Cyclotron and 5 ml instrument that was calib	required; (3) that licer rveys; (4) that the insperator demonstrate a ent exposure rate surveit the facilities were entered by she conducted radial levels for ambient entered; (10 that, based one facility doors open R/hr at the RDS Cyclorated less than 1 year survey instruments p	nsee staff used app pectors' confirmate and describe how heys in strategic are quipped with oper iation safety audits exposure rate and resolution of that the CS-15 (on a scenario posed with the cyclotron otron target bunker or ago; (13) a Cyclo	propriate and calibrated sory survey result was the had conducted cyclotras; (6) licensee staff we ating "cyclotron on" was of the CS-15 Cyclotron emovable contamination cyclotron Facility audible by the inspectors, the state on; (12) a maximum of surface using an NRC stron Operator demonstr	cense; (2) that the cyclotron surveys instruments to conduct e same as the licensee's survey for filament replacement, which ear whole body and extremity arnings; (8) a Radiation Safety in Facility; (9) that licensee staff in radiation surveys and how to the and visible alarm functioned traff knew they must shut down of 20 mR/hr at the surface of the Ludlum Model 2403 survey that how he conducted daily extend fire extinguishers were				