NRC FORM 591M PART 1 (10-2003) 10 CFR 2:201			U.S. NUCLEAR REGULATORY COMMISSION				
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION							
1. LICENSEE/LOCATION INSPECTED;			2. NRC/REGIONAL OFFICE				
Mid-America Isotopes, Inc. 706 E Liberty Lane Ashland, MO 65010			U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Suite 210				
REPORT NUMBER(S)		8-001	Lisle, Illinois 605:				
3. DOCKET NUMBER(§ 030-31896	5)	4. LICENSEE NUM 24-26241-01MD	BER(S)	5. DATE(S) OF INSP			
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: I. Based on the inspection findings, no violations were identified. I. Previous violation(s) closed. 3. The violation(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, NUREG-1600, to exercise discretion, were satisfied. Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):							
L cited. This form is a f	tion certain of your NOTICE OF VIOLA Corrective Actions)	activities, as described b TION, which may be subj	elow and/or attached, were ect to posting in accordance	in violation of NRC requireme with 10 CFR 19.11.	ents and are being		
corrective actions is made in	0 days, the actions accordance with th will be achieved). I	described by me to the in e requirements of 10 CFP	2.201 (corrective steps aire r written response to NRC v	ect the violations identified	vhich will be taken,		
NRC INSPECTOR	Sam Mulay		- Alera	M.L.	5/2, /DE		
NRC FORM 591M PART 1 (10-20	03)			Hund	101/01		

NRC FORM 591M PART 3 (10-2003) 10 CFR 2.201			S. NUCLEAR REGULATORY			
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION						
1. LICENSEE Mid-America Isotopes, Inc. REPORT 2008-01 NUMBER(S)		2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532				
3. DOCKET NUMBER(S) 03031896	4. LICENSE NUMBER(S) 24-26241-01MD		5. DATE(S) OF INSPECTION May 21, 2008			
6. INSPECTION PROCEDURES USED 87127	7. INSPECTION FOCUS AREAS 03.01-03.07					
	SUPPLEMENTAL INSPECTION INFORMATION					
1. PROGRAM CODE(S) 2. PRIORITY 2500 2	3. LICER Scott Brower, R	NSEE CONTACT . Ph., RSO	4. TELEPHONE NUMBER 573-657-1776			
X Main Office Inspection Next Inspection Date: May 2010						
Field Office Temporary Job Site						
	PROGI	RAM SCOPE				
 The licensee provides unit and bulk doses of byproduct material to approximately 25 clients primarily within the States of Missouri and Nebraska. The pharmacy is operational Monday-Friday from 2:30 am-4:00pm daily. All other times are covered on-call. The licensee receives three Mo99/Tc99^m generators weekly in various quantities as authorized. On average, an authorized pharmacist will perform about 3 iodine-131 encapsulations weekly ranging from 3.0 to 100 millicuries. Encapsulations were not being performed at time of inspection This radiopharmacy employs 4 pharmacists, 10 pharmacy technicians (including students), and approximately 13 drivers. In addition, the licensee maintains three dose calibrators and two draw stations. One dose calibrator is used exclusively for approximate measurements prior to obtaining final reading at one of the other draw stations. 						
	Performance	e Observations				
The inspector observed a generator elution procedure, unit dose preparation and drawing, performance of surveys and wipes prior to shipment, loading in dedicated transport vehicles, package receipt surveys and wipe tests and personal survey meter "frisk" upon leaving the restricted area with no problems or issues identified. Adequate block/brace procedures were also observed as well as proper shipping paper documentation and accessibility.						
Proper usage of personal dosimetry was also observed. The licensee exchanges dosimetry monthly. Maximum readings for 2007 indicated whole-body exposure of 748 mRem and 12,756 mRem extremity. YTD 2008 maximum readings were whole-body 305 mRem and extremity of 3883 mRem. Interviews conducted with available staff indicated an adequate knowledge of material handling and emergency procedures.						
Independent measurements conducted indicated maximum readings of 4.0 mr/hr in the generator storage room . draw station floors, benches etc., revealed approximately 0.04 mr/hr. Unrestricted levels did not exceed back ground levels ().02mr/hr). Side by-side comparison of licensee's survey instruments did not indicate significant variances. The licensee's security monitoring system was verified operational during the review and appeared to function as designed.						
As a result of the inspection conducted 3/30/06, two findings (VAF No.: 2006-19, dated 5/23/06), involving the inaccurate calculation of iodine-131 unrestricted air concentration limits and, the then, existing computer software program which did not always correctly determine if a client was authorized to receive a specific amount and type of licensed material. These issues were reviewed during this inspection and found to have been corrected.						
NMED No.: 070405						