(07-2012)	RM 591M	PART 1				NUCLEAR REGU	LATORY COMMISSI	
1. LICENS	SEE/LOCAT	TION INSPECTED	CTION REPOR		NRC/REGIONAL OFFICE	INSPECTION	N	
Mr. Jack Crawford The Curators of the University of Missouri 8 Research Park Development Bldg. Columbia, MO 65211					Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352			
REPORT	NUMBER	(s) 2012-001			-			
3 DOCKET NUMBER(S) 030-02278		4. LICENSE	4. LICENSE NUMBER(S)		5. DATE(S) OF	. DATE(S) OF INSPECTION		
		24-0051	3-32		September 19, 2012			
LICENSE The inspe Regulator procedure	E: ection was y Commis es and rep	an examination of the activiti ision (NRC) rules and regulat resentative records, interview	es conducted under yo ions and the conditions as with personnel, and o	ur license a of your lice observation	s they relate to radiation inse. The inspection co s by the inspector. The	a safety and to comp nsisted of selective of inspection findings a	bliance with the Nucle examinations of are as follows:	
V 1.	Based o	in the inspection findings, no	violations were identifie	:d.				
2.	Previous	s violation(s) closed.	and the second by the second		ited ideletions are said	ning allog because	thou word solf identif	
3.	non-repe discretio	e violations(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identific n-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise cretion, were satisfied.						
		Non-cited violation(s) we	ere discussed involving	the followi	ng requirement(s):			
4 .	During th cited in a with 10 C (Violation	his inspection, certain of your accordance with NRC Enforce 2FR 19,11. Is and Corrective Actions)	activities, as described ament Policy. This form	below and is a NOTIC	or attached, were in viol E OF VIOLATION, whic	lation of NRC require th may be subject to	ements and are being posting in accordance	
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4. hereby sta corrective a date when	During th cited in a with 10 C (Violation (Violation atte that, w actions is f full compli	his inspection, certain of your iccordance with NRC Enforce SFR 19, 11. Is and Corrective Actions) ithin 30 days, the actions des made in accordance with the lance will be achieved). 1 und	activities, as described ment Policy. This form Statement of scribed by me to the Ins requirements of 10 CFI derstand that no further	below and is a NOTIC Correctiv spector will R 2.201 (cc written res	or attached, were in viol E OF VIOLATION, whic e Actions be taken to correct the v prective step already to ponse to MPC will be rec	lation of NRC require th may be subject to iolations identified when, corrective step quired, unjess specif	ements and are being posting in accordanc posting in accordanc This statement of s which will be taken, fically requested.	
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NRC FORM 591M PART 3 (07-2012) 10 CFR 2.201 SAFETY INSPECTIO	Docket File Info N REPORT AND	U.S. NU Dormation	ICLEAR REGULATORY COMMISSION		
 LICENSEE/LOCATION INSPECTED: Mr. Jack Crawford The Curators of the University of Missouri 8 Research Park Development Bldg. Columbia, MO 65211 REPORT NUMBER(S), 2012, 001 		 2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352 			
3 DOCKET NUMBER(S)	4 LICENSE NUMBERIS	3	5 DATE(S) OF INSPECTION		
030-02278	24-00513-32	· /	September 19, 2012		
6. INSPECTION PROCEDURES USED 87104	7. INSPECTION FOCUS AREAS Decommissioning				
SUPPLE	MENTAL INSPECTI	ON INFORMATION			
1. PROGRAM CODE(S) 2. PRIORITY	3. LICENSEE CONTACT	F	4. TELEPHONE NUMBER		
02110Decom	Mr. Jack Crawfor	rd	(573) 882-0931		
✓ Main Office Inspection	Next Inspection	Date:			
Field Office Inspection					
Temporary Job Site Inspection					
then the licensee has performed three charact outdoor surface soil. Based on the characteri basement concrete floor.	ierization surveys on ization surveys, mos	ity finited to the access t of the contamination is	the indoor surface areas and s in subsurface soil beneath the		
	Performance Obser	rvations			
The licensee and inspector conducted a surve to one section of the steam tunnel in front of extended beyond one meter beneath the baser conduct a future detailed characterization sur- decommissioning licensing review (Mail Con-	y at the steam tunne the Pickard Hall Bui nent floor and sprea vey of the subsurfac- ttrol # 574562).	l and found the contami Iding (ML12279A068). d to the wall of steam to e contamination. This y	nation of the soil only limited The contamination may be innel. The licensee agreed to will be part of the		
As part of a routine decommissioning inspect report (ML11353A106) completed by the lice 9.2, Air Sampling. Specifically, the derived g incorrect. The actual gross alpha DAC should by a factor of about 237.	ion at Pickard Hall, ensee's contractor in ross alpha DAC of n d be about 4.0 E-12	the inspector reviewed to September 2011 and identify and Firsture of Th-232 and Figure 1. Because of the μ Ci/ml. Because of the	the Phase III characterization entified a problem in Section $a-226$, 9.5 E-10 μ Ci/ml, was t, the dose was underestimated		
Continue to Part 2					
NRC FORM 591M PART 3 (07-2012)		······	CL 10/16/1		

NRC FORM 591M PART 2 (07-2012) 10 CFR 2.201 SAFETY INSPECTION	U.S. NUCLEAR REGULATORY COMMISSION REPORT AND COMPLIANCE INSPECTION			
1 LICENSEE/LOCATION INSPECTED:		2. NRC/REGIONAL OFFICE		
Mr. Jack Crawford The Curators of the University of Missouri 8 Research Park Development Bldg. Columbia, MO 65211 REPORT NUMBER(S) 2012-001		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. DATE(S) OF INSPECTION	
030-02278	24-00513-32		September 19, 2012	

(Continued)

The inspector determined that licensee's consultant used an incorrect methodology to calculate the gross alpha DAC. NRC issued a Severity Level IV violation (Inspection Report No 15000016/12003) against the licensee's Consultant. The licensee's consultant planed to provide corrective action training to the workers and also write addendums to reports affected by the errors.

During the Phase III characterization survey, a small amount of building concrete was removed and the highest air sample result was $4.63 \text{ E}-13 \mu \text{Ci/ml}$. Using the correct DAC over the two days, the workers received maximum doses of about 2 DAC.hrs, which is equivalent to 50 mrem to the bone surface.

NRC FORM 591M PART 2 (07-2012)

CL 10/16/12