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AGREEMENT STATE

EVENT REPORT ID NO. ~ 00 - 002

SIMINAL INS

March 6, 2000

Director Part Lishana

Office of State Programs

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Signature and Title:

Vicki D. Jelis, Supervisor

Radioarlive Materials Section

ky Radiativu Health and Toxic Agents Branch

1/11/50

NRC	FORM	565
(4-94)		

## U. S. NUCLEAR REGULATORY COMMISSION

**EVENT REPORT** 

## APPROVED BY OMB: NO. 3150-0178 EXPIRES: 04/30/97

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 1 HOUR. THIS INFORMATION IS REQUESTED TO ASSESS MATERIALS EVENTS AND EVALUATE ACTIONS NECESSARY TO PREVENT THEIR RECURRENCE FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-8 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0178), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

								RE TI-	ND R	ATORY COMMIS	AGEN SSION EDUC	MENT BRANCH (T-6 N, WASHINGTON, DO THON PROJECT (3' T, WASHINGTON, DC	C 20555-000 150-0178), (	NUCLEAR 1, AND TO	
LICENSEE						cn	CITY AND STATE				ORIGINAL ITEM NUMBER				
University of Kentucky					Le	Lexington, KY									
TYPE OF LICENSE (i.e., Field Rediography, Private Practice Medical, etc.)					LK	LICENSE NUMBER				THIS ITEM NUMBER					
Broad Medical						202-049-22									
ARNORMAL FOLLOWING				TYPE OF ISOTOPE				DATE OF EVENT							
OCCURRENCE			REPORT		ISOTOPE	7	X AEA MATERIAL			January 12, 2000					
	YES		_	YES	- 101	_	ACCELERATOR PRODUCED				March 6, 2000				
x NO I-131							NORM				March 6, 2000				
			,	·	IVE MATERIAL (If am	ount of I	<del></del>	npt q	uentit)	r, do not complet	o this				
	<1 MIL	TICI	X	X 100 MILLICI - < 1 CI			10 Cl - 100 Cl				UNKNOWN				
	1 MILLICI - < 100 MILLICI			1 Cl - < 10 Cl		1.	> 100 CI				·				
- 3					EVENTS	INVOLV	NG OVEREXPOSURE								
NUN	ABER OF	OVEREXPOSURES		TYPE OF			EVENT			DOSE TO		DOSE	RAD	REM	
• •	1			INDIVI	DUAL		LOCATION			WHOLE BOD	Y				
	SOURC	E OF RADIATION	X	EMPLOYEE			RESTRICTED AREA	A	Γ	LENS OF EYE	<b>E</b>				
x	EXTER	VAL		MINOR EMPLOYEE		X	UNRESTRICTED AR	REA	Ç.	EXTREMITY				<u>.</u>	
_	INTERN	AL		EMBRYO/FETUS			CONTROLLED ARE	EA		SKIN		100		x	
	вотн			PUBLIC			3			ORGAN		1			
		G SOURCE		1						1				-	
***		ST OR STOLEN MATER	IAL.												
		EVENT		EVENT I C	CATION	_				PROBABLE	DISP	OSTTION	<del></del>		
	₩-	LOST	-	FIXED SITE			WELLOGGING RE	ECO	VERE			UNKNOWN			
	₩	FOUND	<del> </del>	1	MTE	-	WELL LOGGING RECOVERED SOURCE WELL LOGGING IRRETRIEVABLE SOUR			-	-	OTHER (Specify)	٠.		
	<b>-</b>	- 1	<u> </u>	TEMPORARY JOB SITE							OTHER (Specify)				
	₩_	THEFT	<u> </u>	LICENSED VEHICLE		- ⊢-	COMMERCIAL WASTE						**j.	,	
	<b>    </b>	THEFT, WITH FORCE		COMMERCIAL CARRIER			INCINERATOR								
				OTHER (Specify)	·		SCRAP METAL				<u> </u>				
	RE	LEASE OF MATERIALS										n *			
		FORM	<u> </u>	EVE	NT					LOCA	MOIT	<u> </u>		·	
		sond		SPILL	RESTRICTRED AREA										
	<b></b>	FIGUID		TRANSPORTATION			UNRESTRICTED AR	REA							
		GAS		OTHER (Specify)			CONTROLLED AREA								
	EVENTS	INVOLVING FACILMES													
▓	FIR	Æ		SPILL			OTHER (Specify)								
∭	DAMAGE TO DEVICE > 24-HOUR DENIAL OF ACCESS									. 1					
EXPLOSION DAMAGE TO SAFETY EQUIPMENT															
EVENTS INVOLVING GAUGES							EVENTS INVOLVING	G R/	DIOG	RAPHY					
		TYPE		EVE	NT		LOCATION					EVENT	-		
▓	GE	NERAL LICENSE		SHUTTER			FIXED			SOURCE DISC	NNC	IECT			
	EX	EMPT		MOISTURE/DENSITY	Y GAUGE DAMAGE		TEMPORARY		Г	SOURCE NOT	RET	URNED TO FULLY SH	IELDED POS	MOTE	
▓	SP	ECIAL LICENSE		LOST/STOLEN			JOB SITE		$\Box$	CABLE FAILUI	RE	•			
		FIXED		OTHER (Specify)						FAILURE TO F	out	W PROCEDURES			
		PORTABLE	┢╾	1					<u> </u>	J					
	EVENT	INVOLVING AN IRRADIA	TOR		MANUFACTURER		1		МО	DEL		SERIAL NUM	/BER		
		INVOLVING TELETHER													
ABS	TRACT (	See attac			tive action. May be co	ontinued	on the reverse side)				:				
•														j	

On January 12, 2000 a nuclear medicine technologist was assisting a physician at this facility in administering a 140 millicurie dose of iodine-131 to a patient for thyroid ablation. The dose was being administered through a feeding tube into an already existing stomach tube. When removing the feeding tube, iodine-131 was sprayed into the air, resulting in contamination of the technologist and some contamination of the physician. The physician was able to remove the contamination by washing the affected area.

After showering, the technologist's hands still showed some contamination of some areas of the fingers. Within two hours of the event, a KI blocking dose was administered to the technologist. A thyroid count was performed on January 13. Using NRC accepted methods, FGR Reports 11 and 12, the estimated internal doses were: thyroid, CEDE, 35 mrem; whole body, EDE, 5 mrem. The whole body badge was sent to the personnel monitoring service vendor. The reading indicated an 82 millirem to the whole body. The ring badge was grossly contaminated during the event and discarded.

Skin doses were calculated using VARSKIN. The total dose to the contaminated skin was estimated to be  $100\ \mathrm{rem}$  over a period of  $20\ \mathrm{days}$ .

The Nuclear Medicine Department has taken steps to stop future use of an external stomach tube for administering doses in order to prevent a reoccurrence of this event.