NOTICE

TO: Employees & students who are required to wear x-ray dosimeters.

FAX: 460-6068

FROM: 0 L F K H O O H 7 D \ O R U, Director Radiation Safety Office 5795 USA Drive N; CSAB 330 Mobile, AL 36688

SUBJECT: State requirements regarding personnel exposure at two different institutions.

Regulations require institutions to monitor and record personnel radiation exposures of employees and studer**its m**ight receive ten percent of the maximum allowable limit or in a room with a 100-mrem-per-hour field of radiation (such as when a fluoroscopy beam is energized). An employee or student's occupational exposure is the sum of all occupational sources. Therefore, if you have a secondary employer, the Radiation Safety Office will communicate with them to sharexposure values. This will satisfy the requirement for both facilities.

To implement this procedure must know if you are employed elsewhere and if so, by whom. Please notify us at 460-7063.

MEMORANDUM

- TO: All new employees & students working with radiation.
- FROM: 0 L F K H O O H 7 D \ O R U, Radiation Safety Officer
- SUBJECT: Previous Occupational Radiation Exposures

Please complete and return the statement below to CSAB 330.

During the immediate past calendar quarter, have you received an occupational dose in excess of 25% of the applicable standards? Yes No . (If you haven't been around any radiation barve never worn a dosimeter, answer "No".)

ALABAMA DEPARTMENT OF PUBLIC HEALTH OCCUPATIONAL EXTERNAL RADIATION EXPOSURE HISTORY

(Follow instruction at bottom of page)

IDENTIFICATION

1. Name (print Last, First, and Middle)	2. Social Security Number				
3. Date of Birth (Month, Day, Year)			4. Age in Full Years (N)		
	TIONAL EXPOSUR	RE- PREVIO	US HISTORY		
5. Previous employments	6. Dates of employment 7. Periods of		Previous Dose History		
involving radiation exposure	(From-To)	employment	8. Whole Body	9. Record or Calculated	
			(Rem)	(Insert one)	
10. Remarks	11. Accumulated Occupational Dested				
				1	

12. Calculation Permissible Dose	 Certification: I certify that the Exposure History listed in columns 5, 6 and 7 is correct and complete to the best of my 			
Whole Body:	knowledgænd belief.			
(A) Permissible accumulated Dose: 5(18) =Re				
(B) Total exposure to date (From item 11)=Re	Employee's Signature Date			
 (C) Unused part of permissibleccumulated Dose (AB) =Rei 				
	14. Name of Licensee or Registrant			

Complete blocks 1-4 and if applicable, columns 5, 6, & 7. Unless you are certain of the answers, leave the others blank and we will research the exposures and complete 8, 9, 10, 11 and 12. Sign block 13.

PROCEDURE FOR PERSONNEL MONITORING

The Alabama Department of Public Health's Department of Radiation Control is the regulatory Agency for radiation exposure in Alabama. Their annual regulatory dose limits are:

		Effective Dose Equivalent Traditional Unit (Rem)SI Unit of Sieverts (Sv		
1.	Whole body, Head, and Trunk Active blood-forming organs, and Gon	5 Rem (5,000 millirer ads	n)0.05 Sv (50 milliSv)	
2.	Eyes	15 Rem	0.15 Sv	
3.	The dose to an embryo/fetus during the entire pregnancy, due to occupational exposure of a "declared pregnant work A second individual monitoring devices at the abdomen under the lead apron, required for a declared pregnant work	nan"** U.5 Rem Worn is	0.005 Sv (5 mSv)	
4.	Members of the public	0.1 Rem	0.001 Sv (1 mSv)	
		Shallow D	ose Equivalent	
5.	The dose to skin or to any extremity including the head but not the eyes.	50 Rem	0.5 Sv	

** "Declared pregnant woman" means a womanwohuntærsiy informed the radiation safety officer, in writing, of her pregmæhtbye estimated date of conception. Such declarations may be made in confidence. According to the US Supreme court, pregnancy declarations are not mandatory.

The maximum whole body exposure of individuals under 18 years of age must be limited to 10% of the annual occupational dose limits specified for adult workers. Prior to starting work in a radiation area all new occupationally exposed personnel shall sign a form indicating if they have or have not received an occupational dose in excess of 10% of the applicable limits. The badge shall be worn on the collar outside of any lead garments, if applicable. If lead aprons or shields are used, a declared pregnant woman must wear a second dosimeter under those protective garments.

If we suspect that any body part might receive a higher dose than the above listed limits, a second dosimeter or ionization chamber (to be interpreted daily) shall be issued. Extremity dosimeters shall be worn on the wrist or hand that receives the greater amount of exposure.

Personnel monitors shall be provided to each individual who enters a restricted area under such circumstances that they receive, or may receive, a dose in excess of 10 percent of the listed applicable limits OR if they are in a room with a radiation field of 100 milliroentgens per hour.

All personnel who are issued a personnel dosimeter are responsible and accountable for wearing it at the appropriate times and returning it as instructed in a timely manner.

PROCEDURE FOR PERSONNEL MONITORING (continued)

The Radiation Safety Office shall besprensible for the distribution and collection of dosimeters on a routine basis. The Radiate Safety Office shall maintain a supply of dosimeters to replace those lost and those entered visitors, new users, and temporary users.

Normally, external radiation exposusteall be determined from a dosimeter worn by the individual. Exposure from internal emitters all be determined from measurement of biological samples and/or external counting required method of monitoring may be reviewed and changed at any time by the Radiation Safety Officer.

The normal method of determining exposureatpha or weak beta emitters shall be through measurements of biological samples from the exposed individual. Such samples (e.g., urine, feces, or blood) shall be sittlered to the Radiation Safety Office for analysis.

If there is a suspected accidental in**tiala**, ingestion, or skin puncture involving radionuclides, the Radiation Safety Office must be notified immediately.

PERSONNEL MONITORING RECORD

Dosimeter# _____ Office use only In order to maintain current and top-date personnel monitoring records, the following information is needed:

NAM	IE: L	AST			FIRST			
	Ν	MIDDLE			MA ,D (N			
DAT	e of e	BIRTH:			,			
		-	Month	Day	Year			
SOC	IAL SE	CURIT	Y NUMBER	:				
			•	•		•	is worn and only de the lead apror	
				ation Safety Tree documented			r than the Univer	sity
(Film	Badg	e, Ioniza					adiation exposur	e
1.	Institu	ition whe	ere monitoec	d:				
		Ado	dress of san	ne:				
	F	Period of	Employme	nt <u>:</u>		То		
2.	Institu	ition wh	ere monitore	ed:				
		Ado	dress of san	ne:				
	F	Period of	Employme	nt <u>:</u>		То		
3.	Institu	ution wh	ere monitor	ed <u>:</u>				
		Ado	dress of san	ne:				
	F	Period of	Employme	nt <u>:</u>		То		
4.	Institu	ition whe	ere monitore	ed:				
		Ado	dress of san	ne:				
	F	Period of	Employme	nt:		То		

UNIVERSITY OF SOUTH ALABAMA

COLLEGE OF MEDICINE RADIATIOADd ()Tj -0.656 Tm ()Tj -10.0.004 q -Tw 3 TrNE