

Southern Illinois University School of Medicine P.O. Box 3926 Springfield, Illinois 62708

May 10, 1984

Patricia J. Whiston Materials Licensing Section U.S. Nuclear Regulatory Commission; Region III 799 Roosevelt Road Glen Ellyn, Illinois 60137

Re: License #12-18470-01, Control #76537

Dear Ms. Whiston:

Enclosed is information requested concerning our March 22, 1984 license amendment request:

- The information requested concerning the experience of Allen Nickols, Ph.D., and Jill W. Sullivan, M.D., is enclosed. All materials listed are in unsealed form.
- All three new Radiological Control Committee members are voting members.
- 3. Krishna B. Singh, M.D., and Che Su, Ph.D., are no longer members of the Radiological Control Committee.

If you have any questions concerning this additional information, please contact me at (217) 788-3267.

Sincerely,

Randy Maxey

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Radiation Safety Officer

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FORM NRC- 8-79)	313M-SUPPLEMENT A	TRAINING AND EXPERI ZED USER OR RADIATION SA	ENCE	LEAR REGULATO	DRY COMMISSIO	
	AUTHORIZED USER OR 111 White Sul.	RADIATION SAFETY OFFICER	ON SAFETY OFFICER		2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE	
		3. CERTIFICATION		-1		
SPECIALTY BOARD		A REAL PROPERTY OF THE PROPERTY OF	CATEGORY		MONTH AND YEAR CERTIFIED	
American Board of Radiology		Diagnostic Ra	diology	June - 1982		
	4. TRAININ	G RECEIVED IN BASIC RADIOISOT	OPE HANDLING	TECHNIQUES		
FIELD OF TRAINING		· · · · · · · · · · · · · · · · · · ·		TYPE AND LENGTH OF TRAINING		
		LOCATION AND DATE	LOCATION AND DATE (S) OF TRAINING		SUPERVISED LABORATOR EXPERIENCI (Hours) D	
. RADIATION PHYSICS AND INSTRUMENTATION		of Radiology	Mallinkrodt Institute of Radiology July-1979 - June 1982		125 hrs.	
b. RADIATION PROTECTION		Same as above	Same as above		50 hrs.	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY		The second	Same as above		· 6 .	
d. RADIATION BIOLOGY		Same as above	Same as above		ε.	
*. RADIOPHARMACEUTICAL CHEMISTRY		Same as above	Same as above			
	5. EXPERIENC	E WITH RADIATION. (Actual use of )	hauloisotopes of L	i Juivaiunt Experienc	ca)	
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION UP	and the state of the state of the state of the state of the	TYPE OF USE	
1-131	15mC1	Samo an above	1980-198		ie rapy	
Xe-133	20mC1	11 11	11	1 101	lagnostic	
Tc-99m	15mCi					
1-123	2 m C 1		0		11	
1n-111	1.5mCi 5mCi		11		9.	
T1-2011	2 111 0 1	n			11	

and in

(8-78)

RCC - A. Nickols

Experience at:

1)	University	of Missouri 1973-77		
	Isotopes: all unsealed	<ul> <li>a) <sup>131</sup>I for iodinations 1-3 mCi each time.</li> <li>b) <sup>125</sup>I for iodinations 1-3 mCi each time.</li> <li>c) [α-<sup>32</sup>p]-ATP for adenylate cyclase measurement - performed twice weekly. Monthly usage ≈ 100-300 µCi.</li> <li>d) [<sup>3</sup>H]-cAMP for adenylate cyclase measurements - performed twice weekly. Monthly usage ≈ 10-50 µCi.</li> </ul>		
2)	University	of Virginia 1977-80		
	Isotopes:	<ul> <li>a) 125<sub>I</sub> for iodinations 1-3 mCi each time.</li> <li>b) [α-<sup>32</sup>p]-ATP for adenylate cyclase measurements - twice weekly. Monthly usage = 100-300 μCi.</li> <li>c) [<sup>3</sup>H]-cAMP for adenylate cyclase measurements - twice weekly. Monthly usage = 10-50 μCi.</li> <li>d) [<sup>125</sup>I]-cAMP for cAMP measurements. Performed daily. Monthly usage = 100-200 μCi.</li> <li>e) [<sup>125</sup>I]-cGMP for cGMP measurements. Performed weekly. Monthly usage = 20-60 μCi.</li> <li>f) [<sup>14</sup>C]-leucine - for protein turnover measurements. Performed twice monthly. Monthly usage = 2-10 μCi.</li> <li>g) [<sup>32</sup>p] orthophosphate - for protein phosphorylation studies. Monthly usage = 200 μCi.</li> </ul>		
3)	Southern Illinois University 1980-84			
	Isotopes: all	<ul> <li>a) <sup>125</sup>I for iodinations 1-3 mCi each time.</li> <li>b) [α-<sup>32</sup>ρ]-ATP for adenylate cyclase measurements - twice weekly. Monthly usage ≈ 100-300 µCi.</li> <li>c) [<sup>3</sup>H]-cAMP for adenylate cyclase measurements - twice weekly. Monthly usage ≈ 10-50 µCi.</li> <li>d) [<sup>125</sup>I]-cAMP for cAMP measurements. Performed daily. Monthly usage ≈ 100-200 µCi.</li> <li>e) [<sup>125</sup>I]-cGMP for cGMP measurements. Performed weekly. Monthly usage ≈ 20-60 µCi</li> <li>f) [<sup>125</sup>I]-6-ketoprostaglandin F<sub>1α</sub> for measurement of prostacyclin. To be performed weekly. Monthly usage ≈</li> </ul>		
		50-100 µCi.		

Contamination record - absolutely none at any of the above institutions.