Department of Biology Buchtel College of Arts and Sciences Akron, OH 44325

August 11, 1988

U.S. Nuclear Regulatory Commission Region III 799 Roosevelt Rd. Glen Ellyn IL 60137

Attn: Chief, Nuclear Materials Safety and Safeguards Branch

Dear Sir or Madam:

We wish to have our NRC license No. 34-03279-3 amended to read as follows:

- 6. Byproduct, source and/or 7. Chemical and/or 8. Maximum amount special nuclear material
- A. Any byproduct material with Atomic Nos. 3-83 except as noted below:
- physical form of possession
 - A. Any

- A. Not to exceed 5 millicuries per radionuclide. Total possession limit not to exceed 250 millicuries except as listed below:

1000 millicuries

1000 millicuries

25 millicuries

25 millicuries

25 millicuries

G. No single cell

to exceed 15

millicuries

- B. Hydrogen 3 C. Carbon - 14 D. Sulfur - 35
- E. Phosphorus 32
- * F. Iodine 125

H. Hydrogen - 3

I. Nickel - 63

G. Nickel - 63

PDR

- B. Any
- C. Any D. Any
- E. Any F. Any
- G. Foil Source (Hewlett-Packard Detector Cell Model No.
- 18713A) H. Foil Source
 - H. Now decayed to (Bendix Detector 49.9 millicuries Cell Model 100)
- I. Foil Source (Tracor I. No single cell Detector Cell
 - to exceed 15 Model No. 115500)
- J. Foil Source (F&M J. Now decayed down Scientific Detect-
- AUG 18 1988 K. Sealed Source (ICN K. One source not to exceed 100

millicuries

millicuries

to 51.7 millicuries

- J. Hydrogen 3RECEIVED
- Cesium 137

CONTROL NO 8 6 0AU 861 8 1988

8907170218 880926 REG3 LIC30 34-03279-03 PD

L. Cobalt - 60

L. Sealed Source
(Tracerlab, to 0.33 millicuries Serial No. 338)

Please delete the name of Dr. Karen Cozad from the list of licensed users (Item II).

The following University of Akron personnel are requesting to be added to the list of licensed users (Item II).

Dr. James H. Holda Dr. Ronald L. Salisbury

Mr. Nathan Cardarelli

I have included a summary of their training and experience.

Sincerely yours,

Helmar H.A. Dollwet, Ph.D. Professor of Biology and Radiation Safety Officer

HD:dlr

cc: Dr. C. Frank Griffin

Dr. Frank Marini, Senior Vice-President & Provost

Enclosures

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4

	8.	Type of Training - On the job and formal classroom training.	Where Trained	Duration of Training	On the job (circle)	Formal Course (Circle)
	a.	Principles and practices of radiation protection	U. of Akron and (see below)	10 years	Yes No	Yes No
	b.	Radioactivity measurement standardization and moni- toring techniques and in- instruments	U. of Akron and (see below)	10 years	Yes No	Yes No
	c.	Mathematics and calculations basic to the use and mea- surement of radioactivity	U. of Akron	4 days	Yes No	Yes No
	d.	Biological effects of radiacion	U. of Akron and (see below)	10 years	Yes No	Yes No
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9. Experience With Radiation (Actual use of radioisotopes or equivalent).

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
125 1	10 mCi	Medica! College of Virginia	2 yrs	RIA
11	10 mC1	M.S. Hershey College of Medicine	3 yrs	11
0	5 mCi	NEDUCOM	5 yrs	11

RIA = radioimmunoassay

Frank:

I am applying to be put on the University of Akron Radiation License.

R. Salisbury

Mr. Nate Cardarelli

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM W

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8.	Type o	of Training	Where Trained	Duration of Training	job	Formal Course (Circle)
a.	Principof rad	ples and practices lation protection	University of Akron	1 week	Yes No	Yes No
b.	standa toring	ctivity measurement rdization and moni- techniques and in- ments	University of Akron	1 week	Yes No	Yes No
c.	basic	atics and calculations to the use and mea- nt of radioactivity	University of Akron	1 week	Yes No	Yes No
d.	Biolog radia:	ical effects of ion	University of Akron	1. week	Yes No	Yes No
9.	Experi	ence With Radiation (Ad	otual use of radio	isotopes or e	(quivalent)	
Isc	otope	Maximum Amount	Where Experience	Was Gained	Duration of Experience	Type of Use
CO-6	0	1000+ Curies	3. F. Goodrich Co.		1 vr.	(1)

100 millicurie

2 millicurie

C-14

Sn-113

University of Akron

Unique Technologies, Inc.

1/2 yr.

1 yr.

(2)

(3)

⁽¹⁾ Radiation crosslinking of rubber and plastics using cobalt 60 source.

⁽²⁾ Use of C-14 labelled organotin compounds in controlled release formulations. Preparation of formulation. Bioassay with rodents and snail. Analysis using scintillation.

⁽³⁾ Sn-113 introduced into mice. Time profile study of tin movement through tissue. Use of gamma counter to measure.

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8.	Type of Training		Duration of	A- 44	
		Where Trained	Training	job (cipole)	Courses
a.	Principles and practices of radiation protection	SEE BELOW	SEE BELOW		Yes No
b.	Radioactivity measurement standardization and monitoring techniques and intinstruments			Yes No	Yes No
c.	Mathematics and calculations basic to the use and mea- surement of radioactivity			Yes No	Yes No
d.	Biological effects of radiation			Yes No	Yes No
9.	Experience With Radiation (la	CONTRACTION TO SECURE ACCUSATION OF SECURE ACCUSES AND ACCUSES ACCUSED AND ACCUSED ACC	TO A STATE OF THE PARTY OF THE	Constant and a second	

9. Experience With Radiation (Actual use of radioicotopes or equivalent).

sotope	Manimum Amount	Where Emperience Was Gained	Duration of Experience	Type of Use
3 _H	1mCa	Wayne State Univ., Detroit and University of Colorado, Denver.	10 yrs.	
51Cr	500µ C1	Wayne State Univ., Detroit and University of Colorado, Denver.	5 yrs.	

Dr. Holda