

July 11, 1988

Ricerca, Inc.

U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Attn: Material License Section

Gentlemen:

This letter requests amendments to our NRC License Number 34-00583-04.

Item 1

In February, 1983, then Diamond Shamrock, requested that the Montville Research Farm be added to the NRC license so that labelled material could be used in cattle studies. Amendment Number 24 dated April 25, 1983, then listed the Kile Road Montville farm.

Because none of the employees at the farm were approved as users/supervisors, and because the Study Directors located at our Concord facility would not assume responsibility for radiolabelled studies at the farm, no studies were ever conducted at that location. This amendment, then, requests deletion of the facility listed on Amendment 28 as SDS Biotech Corporation, Animal Health Research Farm, 10305 Kile Road, N(M)ountville, Ohio 44024.

To verify that no radioactive material was used there, a survey was conducted on March 3, 1988 using a Victoreen Model 493 survey meter with a Victoreen 489-110A pancake probe. This survey meter was calibrated September 1, 1987 by Southeastern Atomic Labs. The efficiency is ~4%. Background was 30-50 cpm.

The areas checked were the necropsy room, the main barn building #31, the feed mill lab, the cooler and the control area. All counts remained at background.

Item 2

Please delete from Condition 12A the following names:

Joseph D. Banzer
Robert D. Jarrett
Wei-Tsung Chia
Nancy J. Drake
William H. Ford
David E. Harrington
Rita C. Manak
Marta Stone
Margot A. Wright

Leg	July 11
Remit	
Check No.	014959
Amount	\$120
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Exp	7/19/88
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7528 Auburn Road • Box 1000 • Painesville, Ohio 44077
216/357-3300

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REG 3 LIC 304
34-00583-04 PDR

Also delete from Condition 12B:

Tom Nelson

Please add to Condition 12 the following people whose training and experience forms are attached.

Darlene Fritz
Chi-Long Tang
Thomas J. Doran
Warren C. Duane
Brian H. Korsch
Jerome L. Wiedmann

Enclosed please find Check Number 02014959 in the amount of \$120.00 to cover the amendment fee based on 10 CFR 170.31 Category 3 M.

Very truly yours,

R. Leisman

R. J. Leisman
Safety and Hazardous
Materials Officer

108/cei

TRAINING AND EXPERIENCE OF BYPRODUCT USER

Individual User (Name and title and individual who will use or directly supervise use of byproduct material. Give training and experience below.)

Name: Thomas J. Doran

Title: Manager, Environmental Pate

Type of Training

	Where Trained	Duration of Training	On The Job	Formal Course
a. Principles and practices of radiation protection	Case Institute of Techn.	1 semester		Yes
b. Radioactivity measurement standardization and monitoring techniques and instruments	PPG Industries	Seminars, reading		
c. Mathematics and calculations basic to the use and measurement of radioactivity	PPG Industries	Seminars, reading		
d. Biological effects of radiation	PPG Industries	Seminars, reading		

Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
^{14}C	4 mCi/ experiment	PPG Industries	10 years	Supervised, synthesis, applica- tion, analysis

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TRAINING AND EXPERIENCE OF BYPRODUCT USER

Individual User (Name and title and individual who will use or directly supervise use of byproduct material. Give training and experience below.)

Name: Warren C. Duane

Title: Research Associate

Type of Training

	Where Trained	Duration of Training	On The Job	Formal Course
a. Principles and practices of radiation protection	Wayne State Univ.	60 hours		XX
	SDS Biotech Corp.	8 hours		XX
b. Radioactivity measurement standardization and monitoring techniques and instruments	Diamond Shamrock Corp.	20 years	XX	
	Harvard Bio-Labs (Harvard Univ.)	2 years	XX	
c. Mathematics and calculations basic to the use and measurement of radioactivity	Wayne State Univ.	60 hours		XX
	SDS Biotech Corp.	8 hours		XX
d. Biological effects of radiation	Wayne State Univ.	60 hours		XX
	SDS Biotech Corp.	8 hours		XX

Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
P ³²	1 mCi	Wayne State University	1 year	Biochemistry: ATP Synthesis
C ¹⁴	40 mCi	Ricerca, Inc.	3 years + 17 at Diamond	Pesticide Environmental studies
Cl ³⁶	.05 mCi	Diamond Shamrock Corp.	6 months	Pesticide Environmental studies
H ³	1 mCi	Wayne State University	1 year	Biochemistry studies
H ³	1 mCi	University of Illinois	2 years	Biochemistry studies

TRAINING AND EXPERIENCE OF BYPRODUCT USER

Individual User (Name and title and individual who will use or directly supervise use of byproduct material. Give training and experience below.)

Name: Brian H. Korsch

Title: Research Associate

Type of Training

	Where Trained	Duration of Training	On The Job	Formal Course
a. Principles and practices of radiation protection	Atomic Energy Commission, Australia	3 months	XX	XX
b. Radioactivity measurement standardization and monitoring techniques and instruments	Atomic Energy Commission, Australia Genesee Hospital, NY SDS Biotech, OH Endocrine Center, OH	5 years	XX	XX
c. Mathematics and calculations basic to the use and measurement of radioactivity	SDS Biotech, OH	1 week		XX
d. Biological effects of radiation	SDS Biotech, OH	1 week		XX

Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
I ¹²⁵	1 mCi	Genesee Hospital	1 year	iodination
I ¹³¹	10 mCi	Genesee Hospital	1 year	iodination
H ³	5 mCi	SDS Biotech	3 years	label purification
C ¹⁴	1 mCi	SDS Biotech	1 year	metabolism studies
Se ⁷⁵	10 mCi	Endocrine Center	1 year	test kits

TRAINING AND EXPERIENCE OF BYPRODUCT USER

Individual User (Name and title and individual who will use or directly supervise use of byproduct material. Give training and experience below.)

Name: Jerome L. Wiedmann

Title: Research Associate

Type of Training

	Where Trained	Duration of Training	On The Job	Formal Course
a. Principles and practices of radiation protection	New England Nuclear PPG	* As needed	X @	*
b. Radioactivity measurement standardization and monitoring techniques and instruments	New England Nuclear PPG	* As needed	X	*
c. Mathematics and calculations basic to the use and measurement of radioactivity	New England Nuclear PPG	* As needed	X	*
d. Biological effects of radiation	PPG	As needed	X	

* A 2 day course covering these items including hands-on lab work in 1977.

@ Taught 1 hour safety course for technicians.

Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
^{14}C	3 mCi	PPG Industries	1975-1988	Radiotracer for residue, metabolism and translocation studies.
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TRAINING AND EXPERIENCE OF BYPRODUCT USER

Individual User (Name and title and individual who will use or directly supervise use of byproduct material. Give training and experience below.)

Name: Chi-Long Tang

Title: Research Chemist

Type of Training

	Where Trained	Duration of Training	On The Job	Formal Course
a. Principles and practices of radiation protection				
b. Radioactivity measurement standardization and monitoring techniques and instruments	{ ① Ricerca in-house short-course on Radiation m. Radiation Safety (w 9 hrs) ② X-Ray Fluorescence Spectrometry - ACS Audio Course by Ron Jenkins			
c. Mathematics and calculations basic to the use and measurement of radioactivity				
d. Biological effects of radiation				

e. X-Ray Diffraction State University of New York Albany 2 weeks
 Survey Course

Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
Fe ⁵⁵	50 mCi	Ricerca Analytical Services, X-Ray Lab	8 years	Analytical
Co ¹⁰⁹	50 mCi			
Am ²⁴¹	30 mCi			
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TRAINING AND EXPERIENCE OF BYPRODUCT USER

Individual User (Name and title and individual who will use or directly supervise use of byproduct material. Give training and experience below.)

Name: Darlene A Fritz

Title: Research Supervisor

Type of Training

	Where Trained	Duration of Training	On The Job	Formal Course
a. Principles and practices of radiation protection				
b. Radioactivity measurement standardization and monitoring techniques and instruments	{ (1) RICERCA In-house Short-Course on Radiation and Radiation Safety (~9 contact-hrs) (2) 3-SEMESTER-PR course AT Notre Dame College on Radioisotope Methodology (3) X-Ray Fluorescence Spectrometry - ACS Audio Course by Ron Jenkins			
c. Mathematics and calculations basic to the use and measurement of radioactivity				(Cleveland)
d. Biological effects of radiation				

Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use
Cd ¹⁰⁹ Fe ⁵⁵ Am ²⁴¹		Diamond Shamrock / SDS Bitch / RICERCA	~ 5 years doing Source Excited Fluorescence Analysis (SEFA) in Support of Elemental Analysis Projects	ANALYTICAL
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