NRC FORM 313

S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120 **EXPIRES 6-30-86**

(10-94) 10 CFR 30, 32, 33 34, 35, 36, 39 and 40

take I common a forward

APPLICATION FOR MATERIAL LICENSE

EXPIRES \$3.0-48

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REGUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (1-8 F33), U.S. NUCLEAR REGULATORY

	COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.	
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION OF SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO	GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. O THE NRC OFFICE SPECIFIED BELOW.	
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:	
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001	ILLINOIS, INDIANA, IOWA, IMCHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: MATERIALS LICENSING SECTION	
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	U.S. NUCLEAR REGULATORY COMMISSION, REGION III 801 WARRENVILLE RD. LISLE, IL. 80532-4351	
IF YOU ARE LOCATED IN:		
CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONY, SEND APPLICATIONS TO:	ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAR, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, HEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:	
LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION I	NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV	
475 ALLENDALE ROAD KING OF PRUSSIA, PA 19408-1415	611 RYAN PLAZA DRIVE, SUITE 400	
ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICD, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA SEND APPLICATIONS TO:	1 2,378	
NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION II		
101 MARIETTA STREET, NW, SUITE 2900 ATLANTA, GA 30323-0199	02400	
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLI MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISD	EAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED ICTIONS.	
THIS IS AN APPLICATION FOR (Check appropriate florit)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)	
XX A NEW LICENSE	Cardiopet Veterinary Associates, P.A.	
B. AMENDMENT TO LICENSE NUMBER	— 48 Notch Road	
C. RENEWAL OF LICENSE NUMBER	Little Falls, New Jersey 07424	
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
SAME	John C. Ramsey	
	TELEPHONE NUMBER 908-788-9440	
SUBMITITIEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORI	MATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.	
 RADIOACTIVE MATERIAL Element and mass number; b. chemical and/or physical form; and c. mebimum amou which will be possessed at any one bme. 	nt 8. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.	
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RES		
9. FACILITIES AND EQUIPMENT. 10. RADIATION SAFETY PROGRAM.		
11. WASTE MANAGEMENT. 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY 3P AMOUNT 550. ENCLOSED \$		
UPON THE APPLICANT,	THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING	
CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT, 749 MAKES IT 4	OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN 34, 35, 38, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND ACMINISTRATE AND ACMINISTRATION TO ACMININAL OFFENSE, TOTAL ACMINISTRATION TO	
ANY DEPARTMENT ON AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH CERTIFYING OFFICER - TYPEDIPRINTED NAME AND TITLE	IN ITS JURISONCHOM!	
Katy Calia, D.V.M.	(1) Wellen 3697	
	C USE ONLY	
\$	124231	
APPROVED HY DAY	124231	

Item 5 and 6

Radioactive Material and Purpose

Byproduct Material

5.a Material in 35.300 Iodine 131 only.

<u>Amount</u>

10 mCi max. in single use double assayed syringes

<u>Purpose</u>

6.a Treatment of feline hyperthyroidism by i.v. injection

Item 7

Individuals Responsible for Radiation Safety Programs

Authorized Users for Medical Use

<u>Material</u>

Katy Calia, D.V.M.

Iodine 131

Training and Experience Attached

Radiation Safety Officer

Hardi Liauw, Ph.D.

Attached are copies of training and experience, materials licenses for Nebraska (as authorized user) and Maine (as Radiation Safety Officer).

CATHRYN M. CALIA, DVM

Diplomate American College of Veterinary Internal Medicine (Internal Medicine)

EDUCATION

University of Minnesota, College of Veterinary Medicine, St. Paul, MN Doctor of Veterinary Medicine, 1991

Cornell University, College of Agriculture and Life Sciences, Ithaca, NY Bachelor of Science, 1987

WORK EXPERIENCE

The Animal Medical Center, New York, NY

Resident, Internal Medicine

July 1993 - July 1995

Intensive training in all aspects of internal medicine with concentration in nephrology, endocrinology, gastroenterology, respiratory medicine, emergency and critical care. Continuing education included resident journal club, staff house lecture series, radiology/ultrasound rounds with board certified radiologist and internist.

Ansonia Veterinary Center, New York, NY

Staff Veterinarian

July 1992 - July 1993

Responsible for complete inpatient/outpatient medical and surgical cases. Performed routine surgeries and medical workups.

The Animal Medical Center, New York, NY

Intem, Medicine & Surgery

July 1991 - July 1992

Rotating medical/surgical internship; and emergency and critical care rotations.

PUBLICATIONS

Acute tumor lysis syndrome in a cat with lymphoma. Cathryn M. Calia, Ann E. Hohenhaus, Philip R. Fox, Karri A. Meleo. Journal of the American College of Veterinary Internal Medicine, in press.

The use of computed tomography scan in the evaluation of orbital disease in cats and dogs. Cathryn M. Calia, Susan E. Kirschner, Keith Baer, Joseph Stefanacci. Veterinary & Comparative Ophthalmology, volume 4, number 1, Spring 1994, pp. 24-30.

ONGOING RESEARCH

First time transfusion reactions in dogs. Research completed at the Animal Medical Center, New York, NY.

LECTURES

Intensive Post Graduate Course, The Animal Medical Center, New York, NY

Clinical Instructor, Renal/Endocrine/Reproductive disease

Mercy College Veterinary Technician Program, New York, NY

Clinical Instructor, Ophthalmology

RADIOLOGY/RADIATION THERAPY/NUCLEAR MEDICINE EXPERIENCE

University of Minnesota, College of Veterinary Medicine, St. Paul, MN (July 1996)

Clinical experience in the treatment of hyperthyroidism in cats with oral iodine-131, 4 hours.

North Carolina State University, College of Veterinary Medicine, Raleigh, NC (March 1996)

Small animal nuclear medicine course, with lectures and wet labs on radiation physics and instrumentation, radiation protection, mathematics pertaining to the use and measurement of radioactivity, handling of radionuclides,

radiopharmaceutical chemistry, interpretation of nuclear medicine studies, 16.5 hours.

The Animal Medical Center, Donaldson-Atwood Cancer Clinic, NY, NY (May-July 1992)

Oncology rotation; included instruction in radiation biology, radiation therapy

simulations, 240 hours.

University of Minnesota, College of Veterinary Medicine, St. Paul, MN

Senior Radiology Rotation, 80 hours (1990-1991)

Clinical rotation, performance and interpretation of various radiologic studies, including CT scanning, myelograms, contrast studies, fluoroscopy, survey films.

Applied Radiology, 60 hours (1989-1990)

Lecture series, emphasis on interpretation of radiologic studies.

Radiation Physics, 48 hours (1988-1989)

Lecture series, basic radiation physics, radiation protection.

REFERENCES

Adams, William H. Thyroid Radiotherapy: Iodine-131. In Berry, C.R and Daniels, G.B. eds. Handbook of Veterinary Nuclear Medicine, 1996.

Peterson, Mark E. and Becker, David V. Radioiodine treatment of 524 cats with hyperthyroidism. Journal of the American Veterinary Medical Association, Volume 207, Number 11, December 1, 1995, pp. 1422-1428.

Peterson, Mark E. Treatment of feline hyperthyroidism. In: Kirk, Robert W. ed. Current Veterinary Therapy X. Philadelphia: WB Saunders Co., 1989; pp.1002-1008.

Certifies that

Cathryn M. Calia-Schrope, DV.M.

has passed a satisfactory/examination/before/thisBoard/and/is hereby/licensed To Practice Veterinary Medicine, Surgery and Pentistry in the State of New Jersey!

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Fo. 4194

Trenton, New Jersey,

Docember 18, 1995

INDIVIDUAL TRAINING AND EXPERIENCE

supplemental sheet to HHE Form 850

NSTRUCTIONS: This must be completed for all personnel who will be working with or supervising activities involved with adioactive material. Copies of this sheet may be made as needed. Additional information may be required. Consult the pecific license application guide.

	Where	How Long Formal On-The (months) Course Job
Radiation Protection	menta Animal Health, Omaha, NE	
b) Radioactivity measurement standardization and monitoring techniques and instrumentation	Texas A&M University, College Stat	-
c) Mathematics and calculations basic to use and measurement o radioactivity	Texas A&M University, College Stat	ion, TX 6 mos. Course
d) Biological effects of radiation	Texas A&M University, College Stat	ion, TX 6 mos. Course
EXPERIENCE: Provide a narrati	ve of experience in working with radioactive mate	erials.
	h ³⁵ S and ¹⁴ C in Radioimmunoassay P lth - working with ¹⁴ C in Thymidine - funcitoning as a Radiation Sa	Kinase Plaque Autoradiograp