

CNS RESEARCH
Cambridge Neuroscience Research, Inc.

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Check No.	1001
Amount	\$120
Fee Category	3M
Type of Fee	AMD
Date Check Rec'd.	2/1/88
Date Completed	2/3/88
By	S. Kimberly

December 28, 1987

U.S. Nuclear Regulatory Commission
Region 1
631 Park Avenue
King of Prussia, PA 19406

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Gentlemen:

NeuroSciences, Inc., requests to amend our Nuclear Regulatory Commission license # 20-27892-01 to reflect some recent administrative and operational changes within our company. Enclosed find a check for \$120.00 as payment for this amendment in license category 3M. The following changes from our original application dated 8/16/86 are requested:

1. Our company name has been changed to Cambridge Neuroscience Research, Inc. Our address remains the same, One Kendall Square, Building 700, Cambridge, MA 02139.
2. In our original application we stated that we would occupy temporary laboratory space on a lease basis from Repligen Corporation on the fifth floor at One Kendall Square. We have completed the move to our own facilities on the third floor at One Kendall Square. See the attached floor plan of the laboratories. The move was completed on 5/27/87.
3. We request to change the person who will be the Radiation Safety Officer. Our new RSO will be Dr. Mark Marchionni. Please reference Dr. Marchionni's attached curriculum vitae with regards to his training and experience. Dr. Alfred Server will serve as a backup to Dr. Marchionni.
4. We request to increase our possession limit for P-32 from 50 mCi to 200 mCi. The increase is needed to effectively manage our in-house decay storage of the P-32 contaminated materials. As per our application, all P-32 contaminated waste to be disposed of will be stored for a minimum of 10 half lives and will be surveyed with a GM survey instrument before disposal as non-radioactive trash. We also wish to increase our possession limit for ³H from 100 mCi to 300 mCi. The increase is needed because our staff has grown several fold in the last year.

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5. We wish to add Na-22 to our license with a possession limit of 10 mCi. Material will be purchased as a sodium salt in liquid form. Up to 500 uCi will be used per experiment. Persons handling millicurie quantities of Na-22 will be required to wear finger ring dosimeters in addition to their whole body dosimeters. Also, appropriate lead shielding and/or handling tools will be used to keep personnel radiation exposures as low as reasonably achievable.
6. In Item #10 of our application, radiation detection instruments, we listed the Eberline E-120 as the survey instrument we would purchase. We have purchased instead 2 Ludlum Model 3 survey instruments equipped with GM and NaI scintillation detectors. The GM detector has a range of 0 - 200 mr/hr. The NaI scintillation detector has a range of 0 - 500K counts per minute.
7. In Item #11 of our application, calibration of instruments, we listed Nuclear Instruments as our calibration facility for our portable instruments. We request that this be changed to Nuclear Instruments or any other NRC licensed calibration facility.
8. In Item #12 of our application, personnel monitoring, we request 2 changes. First, film badges will be exchanged on a monthly frequency, not quarterly, as indicated. Also, finger ring dosimeters will be required for Na-22 users.

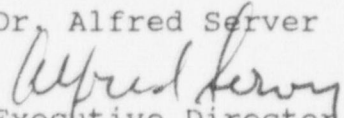
Second, we will not require routine urinalysis monitoring of I-125 users. Any person performing iodinations will be required to have an in vivo thyroid measurement within 24 to 48 hours after the completion of their experiment. The in vivo measurements will be done "in-house" using a properly calibrated NaI scintillation detector. Any positive results will be verified by our consultant health physicist at either M.I.T. or Harvard.

9. In Item #14 of our application, waste disposal, we request to change the name of the waste disposal broker with whom we do business. We request the change to be ADCO Services or any other NRC licensed waste disposal company.

If you have any questions concerning the above amendment requests, please do not hesitate to contact me at (617) 225-0600.

Sincerely,


Dr. Mark Marchionni
Radiation Safety Officer

Dr. Alfred Server

Executive Director of Research
Alternate RSO