



American Cyanamid Company
Agricultural Research Division
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July 22, 1985

RECEIVED

Mr. John Kinneman
Nuclear Materials and Safeguard Branch
Region 1
United States Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

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U.S. NRC
LIC. FEE MGMT. BRANCH

Dear Mr. Kinneman:

With this letter, we wish to apply for an amendment to the condition described in our NRC License Number 29-07694-01 (expiration date April 30, 1989). We wish to increase the maximum amounts of carbon-14, phosphorus-32, and iodine-125 that we can possess.

We are currently authorized to possess 5 curies of carbon-14 and would like to increase this level to 10 curies of carbon-14. Our current inventory consists of approximately 250 samples, of which only 30 are above 50 millicuries. Because of the nature of our research, pesticide and animal health products, we are involved with large numbers of compounds. In addition, regulatory agencies often require that isotopes be placed in several different portions of a molecule, thus adding to our inventories. In addition we are undergoing re-registration of pesticides produced before the 1970's which will cause an inventory increase as these labeled pesticides are synthesized. Because of these demands, we are requesting an inventory increase to 10 curies.

We would also like to increase our Phosphorus-32 authorization from 50 millicuries to 100 millicuries, and our Iodine-125 authorization from 10 millicuries to 20 millicuries. Although our recent inventories are far below our current authorization, we are asking for this increased based on projected growth in the biotechnology field within the next year or two.

Sincerely,

Gary Mangels

Dr. G. Mangels,
Radioisotope Safety
Officer

GM/jg

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