



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

National Institutes of Health
Bethesda, Maryland 20205
Building : 21
Room : 110
(301) 496- 2254

May 3, 1985

U. S. Nuclear Regulatory Commission, Region I
Nuclear Materials Section B
631 Park Avenue
King of Prussia, PA 19406

Ref: License No. 19-00296-10

Dear Sir or Ms.:

This letter is a request to amend the National Institutes of Health's License 19-00296-10 to reflect the following desired changes.

Deletions:

Please remove Item 6-S ^{239}Pu (Pu-Be neutron sources) from our license. This material has been transferred to the Los Alamos National Laboratory DOE facility for recovery. (See attached Transaction Report.)

Additions:

Please add:

^{229}Th in any chemical and/or physical form with a maximum possession limit of one millicurie.

^{224}Ra in any chemical and/or physical form with a maximum possession limit of 50 millicuries.

The above additions will be utilized in an attempt to radiolabel monoclonal antibodies for potential therapeutic purposes in cancer patients. The material offers advantages over the Thorium-232 naturally occurring chain in that no gaseous daughters are present, and thus radiological safety is increased and simplified.

All radiation safety procedures and conditions, as stated in our license, will be followed, including the use of adequate fume hood facilities, monitoring of breathing zone air, and monitoring for internal burdens.

FEE EXEMPT

"OFFICIAL RECORD COPY"

8507240371 850624
REG1 LIC30
19-00296-10 PDR

ML10

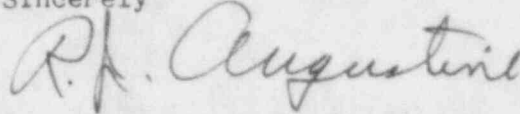
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If additional information is required, please contact me (496-2254).
Your prompt consideration of this request will be appreciated.

Sincerely

A handwritten signature in cursive script, appearing to read "R. J. Augustine".

R. J. Augustine, Ph.D.
Radiation Safety Officer, NIH

Attachment

1. SHIPPER'S R/S YBD		2. RECEIVER'S R/S AUA		3. TRANSACTION NO. 1		4. CORRECTION NO.		5. PROCESSING CODE		6. RESERVED		7. ACTION CODE		8. DATA CODE		DOCUMENTATION [Only if documents are classified SECRET]							
				SHIPPER A		RECEIVER A		SHIPPER B		RECEIVER B		PAGE OF PAGES		COPY OF		COPIES REMAINING							
9. NAME AND ADDRESS OF SHIPPER National Institute of Health Bethesda, Maryland 20205				10. LICENSE NO.				11. NAME AND ADDRESS OF RECEIVER Los Alamos National Laboratory Mail Station 5000, P. O. Box 1663 Los Alamos, NM 87545				12. LICENSE NO.				13. NO. OF DATA LINES 1120-211 02				14. NATURE OF TRANSACTION 1122 S			
15. ATTENTION: TELEPHONE: R. A. Zoon				16. ATTENTION: TELEPHONE: V.A.Bond/E. L. Christensen (505) 667-5886				17. A. SHIPPED FOR ACCOUNT OF B. R/S 1122 201				18. A. SHIPPED TO ACCOUNT OF B. R/S 1122 201				19. DISTRIBUTION OF COPIES							
20. TRANSFER AUTHORITY - CONTRACT, HW DRAFT, OR ORDER NUMBER 1120-211-02 Letter Goldston to Zoon dtd. SEP 18 1964				21. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. 3122-211 B. U.S. PORT EXIT/ENTRY 3122-201				22. TRANSPORTATION PROFILE				23. PACKAGE IDENTIFICATION				24. ACTION DATE							
25. MATERIAL TYPE AND DESCRIPTION Two Pu-Be source donated to DOE for recovery.				26. CARRIER IDENTIFICATION				27. TRANSFER POINT				28. MODEL ID				29. NUMBER							
30. A. MISCELLANEOUS				31. CARRIER IDENTIFICATION				32. TRANSFER POINT				33. MODEL ID				34. NUMBER							
35. CARRIER NOTE ATTACHED Y/N <input type="checkbox"/> No <input checked="" type="checkbox"/>				36. CARRIER NOTE ATTACHED Y/N <input type="checkbox"/> No <input checked="" type="checkbox"/>				37. TRANSFER POINT				38. MODEL ID				39. NUMBER							
40. TOTAL GROSS WEIGHT 467 LB				41. TOTAL VOLUME (When Transfer Order 4107 F01)				42. SHIPPER'S CONNECTION				43. RECEIPT				44. RECEIVER'S CONNECTION							

[illegible][illegible]