



UNIVERSITY OF MAINE *at Orono*

Chemical/Radiation/Laboratory Safety Office

Service Bldg
Orono, Maine 04469
207/581-1637

Re: License No. 18-01475-15

John E. Glenn, Ph.D., Chief
Nuclear Materials Section B
Nuclear Materials and
Safeguards Branch

Dear Dr. Glenn:

This is a request for amendments to our license as noted in the attached Appendix A. Reasons for the requested changes are noted with each item.

Sincerely,

James R. Cook
James R. Cook, RSO

3 Jan 1985

cc: Alden Stuart

encl: Appendix A

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By....	Brown
Orig. To...	
Action Com...	1/15/85

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APPENDIX A

Request for amendment to license No. 18-01475-15

It is requested that our license remain the same except for the following:

1. Current: Condition 10 (Amendment No. 05) of our license states that

Licensed material shall be used at the University of Maine at Orono, Maine. Troxler Electronics Laboratories, Inc. Models Nos. 105A and 217-105A moisture gauges containing Americium 241 may be used at temporary job sites located throughout the State of Maine. Carbon 14, cesium 134, cobalt 58, cobalt 60, manganese 54, hydrogen 3, iron 55, and sulfur 35, may be used at the Ira C. Darling Center, Walpole, Maine.

Amendment:

Licensed material shall be used at the University of Maine at Orono, Maine. Carbon 14, cesium 134, cobalt 58, cobalt 60, manganese 54, hydrogen 3, iron 55, sulfur 35, iron 59, molybdenum 99, and tungsten 185 may be used at the Ira C. Darling Center, Walpole, Maine.

Reason: The amendment deletes reference to Troxler moisture gauges Model Nos. 105A and 217-105A containing Americium 241. These two gauges have been returned to the manufacturer for disposal.

The amendment adds three isotopes (iron 59, molybdenum 99, and tungsten 185) to be used at our marine station by Dr. Gary King, who is studying the metabolism of micronutrients in marine micro-organisms.

2. Current: Our letter (Item 1) dated October 26, 1981 states that the Radiation Safety Committee will meet monthly.

Amendment: The Radiation Safety Committee will meet once in each calendar quarter, or more frequently if required by business.

Reason: The University of Maine has a relatively small program using radioisotopes. For example, in 1984 only five investigators were actively using hydrogen 3; only four using carbon 14; only two using phosphorus 32; and only one user each for sulfur 35 and chromium 51. We feel that quarterly meetings are adequate for our program.

3. Current: Our letter (Item 3) dated October 26, 1981 states the inner container of all incoming packages of radioactive material will be wipe tested on receipt.

Amendment: All incoming packages of radioactive material will be wipe tested in accordance with CFR 10, Chapter 1, Part 20.205.

Reason: Most isotopes purchased by the University of Maine are in small quantities. For example, in 1984 only three packages of hydrogen 3 exceeded 0.25 mCi; only one package of carbon 14 exceeded 0.15 mCi.

4. Current: Our application (Item 15 (G) (3)) dated December 24, 1980 requires daily contamination surveys of laboratories where licensed byproduct material is being used.

Amendment: Monthly contamination surveys will be made in laboratories using licensed byproduct material.

Reason: Microcurie amounts of radioisotopes are used in experiments conducted on this campus.

James L. Cook

James R. Cook, RSO
University of Maine at Orono
Orono, Maine 04469
3 January, 1985