



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

ATTACHMENT #2

JUL 14 1994

University of Michigan
ATTN: Mark L. Driscoll
Radiation Safety Service
1101 North University Bldg.
Ann Arbor, MI 48109

Dear Mr. Driscoll:

Enclosed is Amendment No. 74 to your NRC Material License No. 21-00215-04 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office so that we can provide appropriate corrections and answers.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Peter J. Lee, Ph.D.
Nuclear Materials Licensing Section

Enclosure: Amendment No. 74

RECEIVED

JUL 15 1994

BOARD SECRETARY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 21-00215-04

Docket or Reference number 030-01988

Amendment No. 74

ATTACHMENT #2

- BB. and CC. To be used for research and development as defined in Section 30.4 10 CFR Part 30.
- DD. To be used in J. L. Shepherd Mark I Model 25 irradiator for irradiation of biological specimens.
- EE. To be used in an AECL Gammacell 1000 irradiator for irradiation of blood and blood components.
- FF. To be used in a J.L. Shepherd Model 81-12 irradiator for radiation dosimetry studies, instrument calibrations, and quality and proficiency testing (excluding the irradiation of explosives and flammable materials).
- GG. To be used for manufacturing in vitro and in vivo test kits in accordance with procedures described in letters dated April 6, 1988 and July 17, 1989.
- HH. To be used in a custom irradiation configuration as described in letter dated February 28, 1990 in accordance with the procedures contained in letter dated February 28, 1990 and transmittal dated March 14, 1990.
- II. Medical use described in 10 CFR 35.100.
- JJ. Medical use described in 10 CFR 35.200.
- KK. Medical use described in 10 CFR 35.300.
- LL. Medical use described in 10 CFR 35.400.
- MM. Medical use described in 10 CFR 35.500 in devices which have been evaluated and approved for licensing purposes by the U.S. Nuclear Regulatory Commission or an Agreement State.
- NN. To be used in an AECL Model Gammacell 40 self-contained irradiator for irradiation of biological materials.
- OO. Possession incident to interim storage of waste in accordance with statements, representations and procedures contained in letter dated June 8, 1994.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at the University of Michigan, Ann Arbor, Michigan; Dearborn, Michigan; Flint, Michigan; Willow Run Facilities, Belleville, Michigan; UM Botanical Gardens, Ann Arbor, Michigan; Biological Station at Pellston, Michigan; Research Vessel "Laurention" to be operated on Great Lakes and other waterways; portable gas chromatograph units which contain license materials listed in item 6.F. and 6.G. may be also used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

COPY

ATTACHMENT #2

MATERIALS LICENSE

Amendment No. 74

pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee

1. University of Michigan
2. Radiation Safety Service
1101 North University Bldg.
Ann Arbor, MI 48109

In accordance with letter dated
June 8, 1994

3. License number 21-00215-04 is amended in
its entirety to read as follows:

4. Expiration date September 30, 1995

5. Docket or Reference No. 030-01988

6. Byproduct, source, and/or
special nuclear material

7. Chemical and/or physical
form

8. Maximum amount that licensee
may possess at any one time
under this license

- A. Hydrogen-3
- B. Polonium-210
- C. Americium-241
- D. Californium-252
- E. Any byproduct
material with atomic
numbers 3 through
83, inclusive; except
byproduct material
with atomic
number 53.

- A. Any
- B. Any
- C. Any
- D. Any
- E. Any

- A. 60 Curies
- B. 1 millicurie
- C. 2 millicuries
- D. 6 millicuries
- E. 15 Curies each
isotope with
atomic numbers
3 through 83;
except as listed
below. Total
possession limit
not to exceed 200
Curies.

Any isotope with
Atomic Number 53 10 curies total

- F. Hydrogen-3
- G. Nickel-63
- H. Polonium-210
- I. Americium-241
- J. Californium-252

- F. Plated Sources
- G. Plated Sources
- H. Plated Sources
- I. Plated Sources
- J. Plated Sources

- F. 200 Curies
- G. 10 Curies
- H. 100 millicuries
- I. 100 millicuries
- J. 6 millicuries

COPY

5

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 21-00215-04

Docket or Reference number 030-01988

Amendment No. 74

ATTACHMENT #2

- BB. and CC. To be used for research and development as defined in Section 30.4
10 CFR Part 30.
- DD. To be used in J. L. Shepherd Mark I Model 25 irradiator for irradiation of biological specimens.
- EE. To be used in an AECL Gammacell 1000 irradiator for irradiation of blood and blood components.
- FF. To be used in a J.L. Shepherd Model 81-12 irradiator for radiation dosimetry studies, instrument calibrations, and quality and proficiency testing (excluding the irradiation of explosives and flammable materials).
- GG. To be used for manufacturing in vitro and in vivo test kits in accordance with procedures described in letters dated April 6, 1988 and July 17, 1989.
- HH. To be used in a custom irradiation configuration as described in letter dated February 28, 1990 in accordance with the procedures contained in letter dated February 28, 1990 and transmittal dated March 14, 1990.
- II. Medical use described in 10 CFR 35.100.
- JJ. Medical use described in 10 CFR 35.200.
- KK. Medical use described in 10 CFR 35.300.
- LL. Medical use described in 10 CFR 35.400.
- MM. Medical use described in 10 CFR 35.500 in devices which have been evaluated and approved for licensing purposes by the U.S. Nuclear Regulatory Commission or an Agreement State.
- NN. To be used in an AECL Model Gammacell 40 self-contained irradiator for irradiation of biological materials.
- OO. Possession incident to interim storage of waste in accordance with statements, representations and procedures contained in letter dated June 8, 1994.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at the University of Michigan, Ann Arbor, Michigan; Dearborn, Michigan; Flint, Michigan; Willow Run Facilities, Belleville, Michigan; UM Botanical Gardens, Ann Arbor, Michigan; Biological Station at Pellston, Michigan; Research Vessel "Laurention" to be operated on Great Lakes and other waterways; portable gas chromatograph units which contain license materials listed in item 6.F. and 6.G. may be also used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

ATTACHMENT #2

License number

21-00215-04

Docket or Reference number

030-01988

Amendment No. 74

17. (Continued)

- C. Generator columns shall be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.
18. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. Experimental animals administered licensed materials or their products shall not be used for human consumption.
20. The licensee shall maintain records of information important to safe and effective decommissioning at The University of Michigan, Ann Arbor, Michigan per the provisions of 10 CFR 30.35 (g) until this license is terminated by the Commission.
21. Pursuant to Sections 20.105(b) and 20.302 of 10 CFR Part 20, the licensee is authorized to dispose of byproduct material by incineration provided the gaseous effluent from incineration does not exceed the limits specified for air in Appendix B, Table II, 10 CFR Part 20. Ash residues may be disposed of as ordinary waste provided appropriate surveys are made to determine that concentrations of licensed material appearing in the ash residues cannot be distinguished from background.
22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated May 24, 1988; and
- B. Letters dated April 6, 1988, July 17, 1989, March 14, 1990, June 11, 1990, June 15, 1990, August 1, 1990, May 17, 1991, July 16, 1992 (excluding items 2.0 and 4.0), November 6, 1992, March 2, 1993, August 2, 1993, September 2, 1993, February 19, 1993 (excluding Attachment 3.0, Item 2.0) October 20, 1993, and June 8, 1994.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

7/12/94

By

K. G. N. II
Materials Licensing Section, Region III

THE UNIVERSITY OF MICHIGAN
OCCUPATIONAL SAFETY & ENVIRONMENTAL HEALTH
(OSEH)

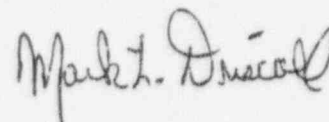
1077 NORTH UNIVERSITY BLDG.
764-8310

TO: Hank Baier, Hazardous Material Coordinator
Hazardous Material Staff

FROM: Mark L. Driscoll, Radiation Safety Officer
Radiation Safety Service

DATE: August 6, 1992

SUBJECT: Willow Run Building #2226 Decommissioned



In addition to the contamination survey conducted by Jeffrey Hadley / Haz Mat Staff on June 29, 1992, please note that a second comprehensive radiological survey was conducted within the former low-level radioactive liquid waste building (Bldg #2226) located at the Willow Run Facilities/Beck Road, Belleville, Michigan on August 6, 1992. Please note that the results of both surveys revealed no radioactive contamination within the facility; therefore, the unoccupied building is officially deemed decommissioned.

The August 6th survey was conducted by Mark Driscoll/RSO and Health Physicist/Dennis Palmieri using approximately 33 smear filters, a sensitive Bicron Analyst (Serial No. A349A) survey meter & low-energy sodium iodide probe (Model G1LE), and a sensitive Johnson & Associates GSM-15 (Serial No. 1238) survey meter & pancake/frisker probe. The smears were analyzed using a calibrated liquid scintillation counter at Radiation Safety Service (RSS). Surveyed areas included the following areas: entire floor area, remaining wood shelves, and concrete walls.

It should be noted that the background count rate for the Bicron Analyst/G1LE NaI probe was approximately 300 cpm and approximately 50 cpm for the Johnson GSM-15/Pancake probe. No areas within the building were distinguishable above natural background using these survey meters and probes. Note that from a radiological and regulatory perspective, this building may be renovated, used for general/non-radioactive space, or demolished.

Please do not hesitate to contact Radiation Safety Service should you have any questions, comments, or concerns regarding this decommissioning effort.

MLD/mla
WRDECOMM

cc: Carole Demarco, Manager, Willow Run Facilities
Dennis Palmieri, Health Physicist, Radiation Safety Service
Radiation Safety Service, Decommissioning Files



THE UNIVERSITY OF MICHIGAN

OCCUPATIONAL SAFETY AND ENVIRONMENTAL HEALTH
CAMPUS SAFETY SERVICES BUILDING

1239 KIPKE DRIVE
ANN ARBOR, MI 48109-1010

HENRY D. BAIER
Director

FAX TRANSMITTAL SHEET

DATE: 10/14/96
(520PM/EST)

TO: NUCLEAR REGULATORY COMMISSION

FAX NO: (630) 515-1078

FROM: MARK DRISCOLL / RSO

FAX NO: (313) 763-1185

DEPT: RADIATION SAFETY SERVICE

PHONE NO: (313) 764-4420

RE: "TIMELINESS RULE NOTIFICATION - 10CFR 30.36"

NRC,

Per the notification requirements of 10CFR 30.36, please
find to follow a copy of the notification correspondence
and attachments drafted in accordance the reporting requirement.
Originals are being mailed/shipped for overnight
delivery.

Mark Driscoll / RSO

NUMBER OF PAGES FOLLOWING THIS PAGE: (12)

PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE IF MATERIAL IS NOT RECEIVED PROPERLY.

