

MATERIALS LICENSE

Amendment No. 29

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, 36, 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.

301990

Licensee

1. Wright State University
2. 3640 Colonel Glenn Highway
Dayton, Ohio 45435

In accordance with the letter dated
November 8, 1996

3. License Number 34-11912-03 is amended in its entirety to read as follows:

4. Expiration Date December 31, 2001

5. Docket or Reference No. 030-15160

6. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This License

- A. Hydrogen-3
- B. Carbon-14
- C. Magnesium-28
- D. Phosphorus-32
- E. Sulphur-35
- F. Chlorine-36
- G. Potassium-42
- H. Calcium-45
- I. Chromium-51
- J. Iron-59
- K. Copper-64
- L. Selenium-75
- M. Rubidium-86
- N. Technetium-99
- O. Technetium-99m
- P. Iodine-125
- Q. Iodine-131

- A. Any
- B. Any
- C. Any
- D. Any
- E. Any
- F. Any
- G. Any
- H. Any
- I. Any
- J. Any
- K. Any
- L. Any
- M. Any
- N. Any
- O. Any
- P. Any
- Q. Any

- A. 3 curies
- B. 300 millicuries
- C. 5 millicuries
- D. 500 millicuries
- E. 400 millicuries
- F. 20 millicuries
- G. 20 millicuries
- H. 20 millicuries
- I. 20 millicuries
- J. 20 millicuries
- K. 200 millicuries
- L. 10 millicuries
- M. 30 millicuries
- N. 5 millicuries
- O. 15 millicuries
- P. 1 curie
- Q. 20 millicuries

070029

9702070457 970131
PDR ADOCK 03015160
C PDR

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

34-11912-03

Docket or Reference Number

030-15160

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6. Byproduct, source,
and/or special nuclear
material7. Chemical and/or physical
form8. Maximum amount that
licensee may possess at
any one time under this
license

R. Manganese-54

R. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

R. 15 microcuries

S. Cobalt-58

S. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

S. 20 millicuries

T. Cobalt-60

T. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

T. 20 microcuries

U. Barium-133

U. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

U. 15 millicuries

V. Strontium-90

V. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

V. 5 microcuries

W. Cadmium-109

W. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

W. 15 microcuries

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

X. Iodine-129

Y. Cesium-137

Z. Nickel-63

AA. Cesium-137

BB. Phosphorus-33

7. Chemical and/or physical
formX. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)

Y. Sealed source

Z. Sealed source
(registered pursuant
to Section 32.210 of
10 CFR Part 32 or
with an Agreement
State)AA. Sealed source (J. L.
Shepherd &
Associates, Model 28
Series Instrument
calibrator)

BB. Any

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

X. 2 microcuries

Y. 300 microcuries

Z. 15 millicuries per
source not to
exceed 100
millicuries total

AA. 2 curies

BB. 500 millicuries

9. Authorized Use:

A. through Y. and B.B. For research and development as defined in 30.4, including
animal studies as described in application dated November 26,
1990 and letter dated October 9, 1991 (with attachments).

Z. For use in a gas chromatograph for sample analysis.

AA. To be used in a J. L. Shepherd Model 28-6 calibrator for instrument calibration.

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CONDITIONS

10. A. Licensed material shall be used only at the licensee's facilities located at:
- 1) Wright State University
3640 Colonel Glenn Highway
Dayton, Ohio
 - 2) Cox Institute
3525 Southern Blvd.
Kettering, Ohio
 - 3) Yellow Springs Family Clinic Building
1001 Xenia Avenue
Yellow Springs, Ohio
 - 4) Veterans Administration
Medical Center Buildings 307 & 315
4100 West Third Street
Dayton, Ohio
 - 5) Wright State University Lake Campus
7600 State Route 703
Celina, Ohio
- B. Licensed material listed in Subitem 6.Z. shall be used only at the licensee's facilities located at 3640 Colonel Glenn Highway, Dayton, Ohio.
11. The Radiation Protection Officer for the activities authorized by this license is Thomas Mohaupt.
12. Licensed material shall be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Dr. Lawrence Prochaska, Chairman.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration, referred to in 10 CFR 32.210 or a certificate of registration issued by an Agreement State.
- B. Notwithstanding Paragraph of this Condition sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made, a sealed source or detector cell received from another person shall not be put into the use until tested.

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- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only krypton-85; or
 - (iii) the physical half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being use. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 5 years without being tested for leakage and/or contamination.
- F. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, IL 60532-4351, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- G. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
14. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), of 10 CFR Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.

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15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources and/or detector cells received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of sealed sources and/or detector cells and the date of the inventory.
16. Sealed sources containing licensed material shall not be opened or removed from source holder or detector cells by the licensee.
17. The licensee is authorized to hold radioactive material with a physical half-life of less than 90 days for decay-in-storage before disposal in ordinary trash provided:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
 - B. Before disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - C. A record of each disposal permitted under this license condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
18. Experimental animals administered licensed materials or their products shall not be used for human consumption.
19. This license does not authorize commercial distribution of licensed material.
20. Licensed material shall not be used in or on human beings or in products distributed to the public.
21. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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 November 26, 1990; and

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- B. Letters dated September 8, 1989 (with attachments), October 9, 1991 (with attachments), September 10, 1992, December 18, 1992, October 21, 1993 and January 30, 1997.



THE U.S. NUCLEAR REGULATORY COMMISSION

Date

1/31/97

By

Kevin A. Price

Nuclear Materials Licensing Branch, Region III

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(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03610
Status Code: 0
Fee Category: EX 3L
Exp. Date: 20011231
Fee Comments: 170.11(A)(4)
Decom Fin Assur Req'd: Y

52
15

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: WRIGHT STATE UNIVERSITY
Received Date: 961028
Docket No: 3015160
Control No: 301990
License No: 34-11912-03
Action Type: Amendment

2. FEE ATTACHED

Amount: 0
Check No: 0

3. COMMENTS

Signed
Date

D. Hersey
11-29-96

FEE EXEMPT

B. LICENSE FEE MANAGEMENT BRANCH (Check fee milestone 03 is entered / ☒)

1. Fee Category and Amount: *EX 3L* *170.11(A)(4)*

2. Correct Fee Paid. Application may be processed for:

Amendment ☒
Renewal ☐
License ☐

3. OTHER

Signed
Date

SC
11/4/96

1996 NOV -4 AM 9:23

NOV 07 1996

RECEIVED BY LFDCB	
Date	<i>NOV. 4, 1996</i>
Log	<i>NOV 2 III</i>
By	<i>SC</i>
Date Completed	<i>11/4/96</i>



**Wright State
University**

Department of Environmental
Health and Safety
3640 Colonel Glenn Hwy.
Dayton, Ohio 45435-0001
513/873-2215

October 22, 1996

United States Nuclear Regulatory Commission, Region III
Materials Licensing Section
801 Warrenville Road
Lisle, IL 60532-4351

License No. 34-11912-03

Dear sir/madam,

We request an amendment of our radioactive material license to reflect the following changes of membership on the Radiation Safety Committee at Wright State University. Please remove Dr. Gopal Mehrotra from the list of members and add Dr. Dawn Wooley. Dr. Wooley is an active Authorized User with many years of experience using radioactive materials for biomedical research. Attachments 1-3 show her qualifications and user status. Dr. Wooley recently married. Her maiden name is Dawn Burns.

Upon approval, the Radiation Safety Committee members will be:

Dr. Lawrence Prochaska, Chair
Dr. Mark Mamrack
Dr. Gary Farlow
Dr. David Giron
Dr. George Hess
Dr. Dawn Wooley
Mr. Jarrell Hagan, Administration Representative
Mr. Thomas Mohaupt, Radiation Safety Officer

Thank-you for considering this matter. If you have any questions or require additional information, please call Mr. Thomas Mohaupt, the University Radiation Safety Officer, at (937) 873-2169.

Sincerely,

Joseph F. Thomas, Jr., Ph.D.
Dean, School of Graduate Studies and Associate Provost for Research

xc:
Lawrence Prochaska, Ph.D.
Thomas Mohaupt, M.S., CHP

170.11(A)(4)
FEE EXEMPT

Pm: 10-24-96

RECEIVED
OCT 28 1996
REGION III

OCT 28 1996
301990



Wright State
University

Department of Environmental
Health and Safety
Dayton, Ohio 45435
513/873-2215

December 8, 1995

TO: Dawn Burns, Ph.D.
Microbiology and Immunology Department

FROM: Thomas Mohaupt, MS, CHP *Thomas Mohaupt*
University Radiation Safety Officer

SUBJECT: Approval to Use Radioactive Materials

The university Radiation Safety Committee has approved your application of 10/24/95 to use ^{32}P - nucleotides (1 mCi), ^{33}P - nucleotides (1 mCi), and ^{35}S - nucleotides (1 mCi) for DNA sequencing and labeling.

In accordance with the provisions of the university Radiation Safety Manual, you have full responsibility for the safe use and control of radioactive materials in your possession. They shall be used only as specified in your application as approved by the committee. Be sure to train new personnel under your direction on proper laboratory procedures, security, and other pertinent sections of the Radiation Safety Manual. Please note that all shipments of radioactive material must pass through the Radiation Safety Office for inclusion on the central inventory system.

The enclosed authorization form summarizes the current status of your approved use of radioactive materials. The biennial review of your authorization is due November 1997. If you have any questions, please do not hesitate to call me at ext. 2169.

xc:

Lawrence Prochaska, Ph.D.
Chair, University Radiation Safety Committee

Neal Rote, Ph.D.
Chair, Microbiology and Immunology Department

Application for Use of Radioactive Material
Wright State University Radiation Safety Office

Principal Investigator Dawn P. W. Burns, Ph.D NOV. 1, 1995 Department Microbiology and Immunology

Other Investigators or Users _____ Department _____

Other Individuals Involved _____ Position _____

Anticipated starting date 11/95 Approximate length of use Continuous

Radionuclides to be used	Maximum activity (indicate total or amount possessed at one time)
<u>³²P Nucleotides</u>	<u>1 mCi</u>
<u>³⁵S Nucleotides</u>	<u>1 mCi</u>
<u>³³P Nucleotides</u>	<u>1 mCi</u>

Use area, including assay or counting locations Room 016 Mathematics and Microbiology Building

Storage area Room 016 MS M Describe handling equipment Disposable Plastic Tubes, Pipet man Transfer Devices

Fume hood Yes ☒ No _____ Describe glove box 1/2-inch Acrylic

Personnel monitoring Badges and Rings ; Geiger Counter

Protection equipment Lab coat, latex gloves, Goggles, 1/2-inch Acrylic Shields and Boxes

Purpose and/or objectives of use Molecular Biology: DNA Sequencing and Nucleic Acid Labeling

Brief description of study and use (include precautions to be taken, disposal methods, including carcasses, and all other pertinent information)

We will be using radioactive nucleotides (³²P, ³³P, and ³⁵S) for DNA sequencing (both traditional and PCR-based) and for labeling DNA for use in various blotting procedures. All personnel will be adequately trained or directly supervised. All individual users will attend the WSU safety course. In addition, they will receive "hands-on" training by the principal investigator. No one will be allowed to work alone with radioactive materials until competence is demonstrated. We already have all of the necessary safety equipment and signage. We will generate both solid and liquid waste which will be disposed of in accordance with WSU policies.

I understand that this information is subject to inspection by the U.S. Nuclear Regulatory Commission and the Ohio Department of Health. The information will be maintained and used by the Radiation Safety Office as required by federal and state regulations. Release of this information for other use will require my written authorization if I am personally identified.

Applicant Dawn P. W. Burns Date 10/23/95

Department Chairman Neal A. Rote Date 10-24-95

Radiation Safety Officer JH McLaughlin Date 11/3/95

Chairman, Radiation Safety Committee [Signature] Date 12/1/95



Wright State
University

Qualifications of Radionuclide Users

Radiation Safety Office
Dayton, Ohio 45435

NOV 1 1995

Name Dawn P. W. Burns, Ph.D.

Department Microbiology and Immunology

Type of training	Where trained	Duration of training (semester hours)	Ending (mo/yr)	On the job (circle answer)	Formal course (circle answer)
Principles and practices of radiation protection	<u>Penn State University</u> <u>Harvard University</u> <u>University of Wisconsin</u>	<u>4 hours</u> <u>3 hours</u> <u>2 hours</u>	<u>9/84</u> <u>9/87</u> <u>9/92</u>	<u>yes</u> no	<u>yes</u> no
Radioactivity measurement and standardization and monitoring techniques and instruments	<u>"</u> <u>"</u> <u>Same</u> <u>"</u>	<u>"</u> <u>"</u> <u>"</u>	<u>"</u> <u>"</u> <u>"</u>	<u>yes</u> no	<u>yes</u> no
Instrumentation, mathematics, and calculations basic to the use and measurement of radioactivity	<u>"</u> <u>"</u> <u>Same</u> <u>"</u>	<u>"</u> <u>"</u> <u>"</u>	<u>"</u> <u>"</u> <u>"</u>	<u>yes</u> no	<u>yes</u> no
Biological effects of radiation	<u>"</u> <u>"</u> <u>Same</u> <u>"</u>	<u>"</u> <u>"</u> <u>"</u>	<u>"</u> <u>"</u> <u>"</u>	<u>yes</u> no	<u>yes</u> no

Experience with radiation (actual use of isotopes or equivalent experience)

Isotope	Maximum amount	Where experience was gained	Duration of experience	Ending (mo/yr)	Type of use
<u>³²P</u>	<u>< 1 mCi</u> <u>at one</u> <u>time</u>	<u>Penn State Univ.</u> <u>Harvard Univ.</u> <u>Univ. of Wisconsin</u>	<u>2 years</u> <u>6 years</u> <u>3 years</u>	<u>5/86</u> <u>6/92</u> <u>3/95</u>	<u>{ DNA Sequencing</u> <u>{ End Labeling DNA</u> <u>{ Nick Translation</u> <u>Nucleic Acid Hybrid</u>
<u>³⁵S</u>	<u>< 1 mCi</u> <u>at one</u> <u>time</u>	<u>Harvard Univ.</u> <u>Univ. of Wisconsin</u>	<u>6 years</u> <u>3 years</u>	<u>6/92</u> <u>3/95</u>	<u>{ Protein Labeling</u> <u>{ DNA Sequencing</u>

I understand that this information is subject to inspection by the U.S. Nuclear Regulatory Commission and the Ohio Department of Health. The information will be maintained and used by the Radiation Safety Office as required by federal and state regulations. Release of this information for other use will require my written authorization if I am personally identified.

Applicant Dawn P. W. Burns

Date 10/23/95

Department Chairman Neal A. Cote

Date 10-24-95

Radiation Safety Officer [Signature]

Date 11/3/95

Chairman, Radiation Safety Committee [Signature]

Date 12/1/95

FEB 03 1997

Joseph F. Thomas, Jr., Ph.D.
Dean, School of Graduate Studies
and Associate Provost for Research
Wright State University
Department of Environmental Health and Safety
3640 Colonel Glenn Highway
Dayton, OH 45435

Dear Dr. Thomas:

This refers to your letters dated November 8, 1996 and January 30, 1997, and to our telephone conversation with Mr. Thomas Mohaupt of your staff on January 30, 1997. Enclosed is Amendment No. 29 to your NRC Material License No. 34-11912-03 in accordance with your request. This amendment grants Wright State University authority to approve certain members of the Radiation Safety Committee, as described in your January 30, 1997 letter.

As discussed with Mr. Mohaupt, please be advised that your license was also updated in accordance with current NRC policy. Specifically, the previous License Condition No. 21 was dropped since it has been superseded by NRC regulations.

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 at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.

301990

2. Notify NRC, in writing, within 30 days:
 - a. When the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
 - b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;
 - b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
 - d. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

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

J. Thomas

-3

General Policy and Procedures for NRC Enforcement Actions. 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,

Original Signed By
Michael F. Weber
Nuclear Materials Licensing Branch

cc: Mr. Thomas Mohaupt, RSO

License No. 34-11912-03
Docket No. 030-15160

Enclosure: Amendment No. 29

DOCUMENT NAME: M:\03015160.CL7

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Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/RIII	C							
NAME	MFWeber:brt								
DATE	01/31/97								

OFFICIAL RECORD COPY

JAN 15 1997

Joseph F. Thomas, Jr., Ph.D.
Dean, School of Graduate Studies
and Associate Provost for Research
Wright State University
3640 Colonel Glenn Hwy.
Dayton, OH 45435-0001

Dear Dr. Thomas:

We have carefully reviewed your letter dated November 8, 1996, in which you ask NRC to grant Wright State University authority to approve new members of the Radiation Safety Committee (RSC). Presently, Wright State University is required to amend its NRC license each time the membership of the RSC changes. As I discussed with Mr. Thomas Mohaupt of your staff on November 7, 1996, for most broad scope licensees, a license amendment is required only if the RSC chairperson or Radiation Safety Officer changes; other RSC members need only be listed by title and qualifications, not by name.

Please note, however, that the policy discussed in the previous sentence is followed only when the membership, duties, and responsibilities of the RSC meet certain criteria. Pursuant to 10 CFR 33.13(c)(1), type A broad scope licensees are required to establish an RSC that represents management when reviewing and approving safety evaluations. The RSC should be responsible for establishing appropriate policies and procedures to ensure control of the procurement and use of byproduct material, completion of safety evaluations of proposed uses and users, and the overall development and implementation of the radiation safety program. The RSC should consist of the Radiation Safety Officer; at least one representative of management; and at least one user authorized by the RSC, trained and experienced in the safe use of radioactive materials, from each of the departments, groups, or activities that will use radioactive materials under the broad scope license.

The number of members constituting a quorum, as well as their names or fields of expertise, should be specified when a quorum of the RSC is empowered to act for the committee. The NRC staff considers the minimum acceptable quorum would be the chairperson, Radiation Safety Officer, management representative, committee member or members representing the department or area from which the radioactive material request originated, and any other committee member whose field of expertise is necessary to ensure all safety aspects have been addressed.

Therefore, before NRC will approve your amendment request, you must make the following commitments:

- 1) The RSC will consist of the Radiation Safety Officer; at least one representative of management; and at least one user authorized by the RSC, trained and experienced in the safe use of radioactive materials, from each of the departments, groups, or activities that will use radioactive materials under the broad scope license.
- 2) A quorum will consist of the chairperson, Radiation Safety Officer, management representative, committee member or members representing the department or area from which the radioactive material request originated, and any other committee member whose field of expertise is necessary to ensure all safety aspects have been addressed.

We will continue our review of your application upon receipt of this information. Please reply in duplicate, within 30 days, and refer to Control Number 301990.

If you have any questions or require clarification on any of the information stated above, you may contact us at (630) 829-9887.

Sincerely,

Original Signed By
Michael F. Weber
Nuclear Materials Licensing Branch

License No. 34-11912-03
Docket No. 030-15160

DOCUMENT NAME: M:\03015160.DF7

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NAME	MFWeber:brt							
DATE	01/14/97							

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Wright State
University

Department of Environmental
Health and Safety
3640 Colonel Glenn Hwy.
Dayton, Ohio 45435-0001
513/873-2215

November 8, 1996

United States Nuclear Regulatory Commission, Region III
Materials Licensing Section (ATTN: Mr. Michael Weber)
801 Warrenville Road
Lisle, IL 60532-4351

License No. 34-11912-03
Control No. 301990

Dear Mr. Weber:

Presently, Wright State University must amend its radioactive materials license each time the membership of the Radiation Safety Committee is changed. We request to amend the license to give the university authority to approve new members, which will streamline the approval process for both the university and the NRC. The composition and qualifications of the Radiation Safety Committee will be as follows:

The University Radiation Safety Committee consists of seven voting members: four members are Authorized Users of radioactive materials, two members are Authorized Users for radiation-producing devices, and one represents the University's administration. The Radiation Safety Officer (RSO) serves as a member of the committee, but may neither vote nor act as chair. No two voting members should be from the same department. A quorum for each meeting consists of four voting members (two of which must be the committee chair and the representative for administration) and the Radiation Safety Officer.

An Authorized User is a departmentally-affiliated member of Wright State University authorized by the Radiation Safety Committee to use radioactive material or radiation-producing devices independently and to supervise subordinate users. A prospective Authorized User must possess at least a bachelors degree in the physical or biological sciences and have 40 hours of training and experience using radiation sources similar to their proposed use.

The Chair of the Radiation Safety Committee and Radiation Safety Officer are named on the Nuclear Regulatory Commission license. A license amendment is required to change committee members serving in either of these capacities.

We understand the NRC suggests that we list the membership by title and qualification and that each department, group, or activity be represented. The university has filled the Radiation Safety Committee membership using the composition as indicated above for nearly 10 years. We feel the diversity in membership has and will continue to represent the university's usage of radiation sources in an exemplary manner.

Please rescind our application for amendment dated 10/22/96, which sought to change individual representatives on the Radiation Safety Committee.

RECEIVED

NOV 25 1996

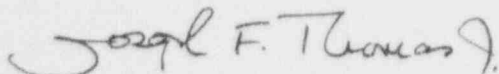
REGION 1.1

NOV 25 1996

Pm 11/21/96

Thank-you for considering this matter. If you have any questions or require additional information, please call Mr. Thomas Mohaupt, the University Radiation Safety Officer, at (937) 873-2169.

Sincerely,

A handwritten signature in cursive script, reading "Joseph F. Thomas, Jr.", written in dark ink.

Joseph F. Thomas, Jr., Ph.D.

Dean, School of Graduate Studies and Associate Provost for Research

xc:

Lawrence Prochaska, Ph.D.

Thomas Mohaupt, M.S., CHP

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351
630-829-9887 (phone), 630-515-1259 (fax)

CONVERSATION RECORD

TIME

9:55 am

DATE

11/7/96

NAME OF PERSON(S) CONTACTED

ORGANIZATION (OFFICE, DEPT ETC.)

TELEPHONE NO.

Tom Mohaupt, RSO

Wright State Univ.

937-873-2169

SUBJECT

Amend. Request - **CONTROL NO. 301990**

SUMMARY

We discussed the need to amend the license when members of the RSC change (see Item 7.2 of 11/26/90 application). I suggested that he amend the license to only list members of the RSC (except for chairperson and RSO) by title and qualifications (see Item 7.2 of DG-0005). He said he would think about that and respond ASAP.

ACTION REQUIRED

Fax copy of Item 7.2 of DG-0005, and wait for response.

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Michael F. Weber

| *m. f. Weber*

| 11/7/96



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

October 29, 1996

Thomas Mohaupt
Radiation Safety Officer
Wright State University
3640 Colonel Glenn Highway
Dayton, OH 45435

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter Dated 10/22/96)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License ☒ Amendment ☐ Renewal
☐ Termination ☐ Auth User (Amendment not required)
☐ Other _____

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 301990
License No. 34-11912-03