

VOID SHEET

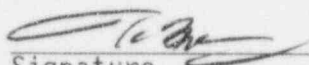
TO: License Fee Management Branch

FROM: RIII

SUBJECT: VOIDED APPLICATION

Control Number: 398940  
Applicant: Midwest Research Institute  
License Number: 24-02564-02  
Docket Number: 030-05083  
Date Voided: May 13, 1996

Renewal voided due to new extension rule. Voided before review.  
Refund due.

  
Signature

5/13/96  
Date

Attachment:  
Official Record Copy of  
Voided Action

FOR LFMB USE ONLY

- ☒ Refund Authorized and processed  
☐ No Refund Due  
☐ Fee Exempt or Fee Not Required

Comments: \_\_\_\_\_  
\_\_\_\_\_

Log completed ☒

Processed by: SAC  
5/15/96

140159

9606140183 960513  
PDR ADOCK 03005083  
C PDR

ML<sup>4</sup>  
30  
BT  
0/1

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)  
INFORMATION FROM LTS

PROGRAM CODE: 03620  
STATUS CODE: 2  
FEE CATEGORY: 3M  
EXP. DATE: 19950831  
FEE COMMENTS:  
DECOM FIN ASSUR REQDT Y

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED  
APPLICANT/LICENSEE: MIDWEST RESEARCH INSTI  
RECEIVED DATE: 950728  
DOCKET NO: 3005083  
CONTROL NO.: 398940  
LICENSE NO.: 24-02564-02  
ACTION TYPE: RENEWAL

2. FEE ATTACHED  
AMOUNT: 15200  
CHECK NO.: 099348

3. COMMENTS

SIGNED  
DATE

*[Signature]*  
7-28-95

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED /✓/)

1. FEE CATEGORY AND AMOUNT: 3M \$1500.00  
2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:  
AMENDMENT  
RENEWAL  
LICENSE

3. OTHER

SIGNED  
DATE

SC 8/1/95

REFUND DUE -  
ELIGIBLE FOR EXTENSION

RECEIVED  
AUG 04 1995  
REGION III

Log	File 23 III
Remittal	
Check No.	99348
Amount	\$1500
Fee Category	3M
Type of Fee	Renewal
Date Check Rec'd	7/31/95
Date Completed	8/1/95
By:	SC



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

**MAY 13, 1996**

**NOTE TO LICENSEES WHO SEND IN RENEWAL PACKAGES**

On January 16, 1996, the Nuclear Regulatory Commission (NRC) amended its regulations in 10 CFR 30, 40, and 70 to extend the expiration date of qualified byproduct, source and special nuclear material licenses by five years (61 FR 1109). Your license was extended by this rulemaking and you will soon receive a letter notifying you of this. If a refund is due, this will be handled by the License Fee and Accounts Receivable Branch in our headquarters office. Because of this extension, your renewal package is being returned to you.

Please note that if there are elements within your renewal package that need to be incorporated into your license, you must submit a request for an amendment along with the appropriate fee.

If you have any questions please contact the Region III office at (708) 829-9887.

**Thank You - Region III**

(10-94)  
10 CFR 30, 32, 33  
34, 35, 36, 39 and 40

## APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

## APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,  
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19408-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO  
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,  
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
101 MARIETTA STREET, NW, SUITE 2900  
ATLANTA, GA 30323-0199

## IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,  
SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
801 WARRENVILLE RD.  
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,  
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,  
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
811 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-8064

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

## 1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☐ A. NEW LICENSE  
☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_  
☒ C. RENEWAL OF LICENSE NUMBER 24-02564-02

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

Midwest Research Institute  
425 Volker Blvd.  
Kansas City, Missouri 64110-2299

## 3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Midwest Research Institute  
425 Volker Blvd.  
Kansas City, Missouri 64110-2299

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

James M. McHugh

TELEPHONE NUMBER  
(816) 753-7600, Ext. 1574

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

## 5. RADIOACTIVE MATERIAL

- a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time

## 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

## 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

## 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

## 9. FACILITIES AND EQUIPMENT

## 10. RADIATION SAFETY PROGRAM.

## 11. WASTE MANAGEMENT.

## 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3M AMOUNT 1,500.00  
ENCLOSED \$

## 13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

## CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

James M. McHugh, Radiation Safety Officer

## SIGNATURE

*James M. McHugh*

## DATE

7-27-95

## FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
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			\$		
--	--	--	----	--	--

## APPROVED BY

## DATE

398940

RECEIVED

JUL 28 1995



**MIDWEST RESEARCH INSTITUTE**

425 Volker Boulevard  
Kansas City, Missouri 64110  
Telephone (816) 753-7600  
Telefax (816) 753-8420

July 27, 1995

Materials Licensing Section  
U.S. Nuclear Regulatory Commission  
Region III  
801 Warrenville Rd.  
Lisle, Illinois 60532-4351

**Subject:** LICENSE RENEWAL APPLICATION  
License No. 24-02564-02  
Expiration Date: 08/31/95

Midwest Research Institute (MRI) is pleased to submit this application for renewal of the U.S. Nuclear Regulatory Commission (NRC) Radioactive Materials License. The item numbers below correspond to those on the NRC Form 313, Application for Material License.

- Item 1.** This application is for renewal of license No. 24-02564-02.
- Item 2.** The name and mailing address of the applicant:
- Midwest Research Institute  
425 Volker Boulevard  
Kansas City, MO 64110-2299
- Item 3.** The address where licensed materials will be used or possessed is the same as Item 2. Sealed nickel-63 sources may be used at temporary job sites in gas chromatographs equipped with electron capture detectors.
- Item 4.** The person to be contacted about this application is Mr. James M. McHugh, Radiation Safety Officer, Phone No. (816) 753-7600, Ext. 1574.
- Item 5.** MRI requests no additions or deletions to the radioactive materials listed on Amendment 44 of the current license. The elements and mass number (a.), chemical and/or physical form (b.), and maximum amounts possessed at one time that (c.) are presented on the following page.



Item 5. (Continued)

Byproduct/ Source, and/or Special Nuclear Material	Chemical and/or Physical Form	Maximum Amount Possessed at Any One Time
Hydrogen-3	Any	300 millicuries
Carbon-12	Any	960 millicuries
Phosphorus-32	Any	100 millicuries
Sulfur-35	Any	15 millicuries
Chromium-51	Any	10 millicuries
Iodine-125	Any	50 millicuries
Iodine-131	Any	50 millicuries
Technetium-99m	Any	100 millicuries
Technetium-99	Any	1 millicurie
Copper-64	Any	100 millicuries
Copper-67	Any	100 millicuries
Nickel-63	Foil/Plated sources (which have been registered with the NRC pursuant to Section 32.210 of CFR Part 32 or equivalent agreement state	15 millicuries per foil, 300 millicuries total
Nickel-63	Foil sources contained in detector cells	10 millicuries per foil, 300 millicuries total

Item 5. (Continued)

**Sealed Radioactive Sources (Gas Chromatograph Electron-Capture Detectors)**

Source	Activity	Model No.	Serial No.	G.C. Manufacturer, Model No.
Nickel-63	13.2	G-1223-A	F-2276	Hewlett Packard G.C., 5890
Nickel-63	13.2	G-1223-A	E-1400	Hewlett Packard G.C., 5890
Nickel-63	13.2	G-1223-A	E-3388	Hewlett Packard G.C., 5890
Nickel-63	13.2	G-1223-A	E-3389	Hewlett Packard G.C., 5890
Nickel-63	15.0	19233	M-1232	Hewlett Packard G.C., 5890
Nickel-63	15.0	19233	M-1233	Hewlett Packard G.C., 5890
Nickel-63	15.0	19233	L-3392	Hewlett Packard G.C., 5890
Nickel-63	15.0	19233	L-0641	Hewlett Packard G.C., 5890
Nickel-63	15.0	19233	L-5221	Hewlett Packard G.C., 5890
Nickel-63	8.0	02-1972-01	A-0658	Varian G.C., 3700
Nickel-63	8.0	02-1972-01	A-1005	Varian G.C., 3700
Nickel-63	8.0	02-1972-01	A-1275	Varian G.C., 3700
Nickel-63	8.0	02-1972-01	A-1274	Varian G.C., 3700
Nickel-63	8.0	02-1972-01	A-0720	Varian G.C., 3700
Nickel-63	8.0	02-1972-01	A-1026	Varian G.C., Vista
Nickel-63	8.0	02-1972-00	A-3567	Varian G.C., 3700
Nickel-63	8.0	02-1972-00	A-4662	Varian G.C., 3700
Nickel-63	8.0	02-1972-00	A-4250	Varian G.C., 3400
Nickel-63	8.0	02-1972-00	A-4784	Varian G.C., 3700
Nickel-63	8.0	03-917440-00	A-7563	Varian G.C., 3400
Nickel-63	8.0	03-980377-00	T-0689	Varian G.C., 3700
Nickel-63	8.0	03-980377-00	T-0551	Varian G.C., 3700
Nickel-63	15.0	03-917440-00	B-0728	Varian G.C., 3500
Nickel-63	15.0	03-917440-00	B-0452	Varian G.C., 3500
Nickel-63	15.0	03-917440-00	B-0425	Varian G.C., 3500
Nickel-63	10.0	221-15315-92	SS-755	Shimadzu G.C.

**Item 6.** The licensed radioactive materials will be used for following purposes:

Isotope	Uses
Hydrogen-3	Animal studies Metabolism studies Analytical methods development Formulating materials for toxicology studies Analytical analysis by HPLC Stability studies Radioimmunoassay Protein, DNA, and RNA labeling to support analysis Formulation of clinical materials (clinical trials on humans are not performed at MRI)
Carbon-14	Animal studies Metabolism studies Analytical methods development Analytical analysis by HPLC Stability studies Protein, DNA, and RNA labeling to support analysis Formulation of clinical materials (clinical trials on humans are not performed at MRI)
Phosphorus-32	Animal studies Metabolism studies In vitro analysis DNA and RNA labeling to support analysis
Sulfur-35	Animal studies Metabolism studies In vitro analysis DNA and RNA labeling to support analysis
Chromium-51	Animal studies Metabolism studies Protein, DNA, and RNA labeling to support analysis
Iodine-125	Animal studies Metabolism studies Radioimmunoassay Protein, DNA, and RNA labeling to support analysis



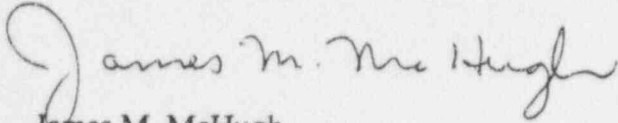
Isotope	Uses
Iodine-131	Animal studies Metabolism studies Radioimmunoassay Protein, DNA, and RNA labeling to support analysis
Technetium-99m	Animal studies Metabolism studies
Technetium.-99	Animal studies Metabolism studies
Copper-64	Animal studies Metabolism studies
Copper-67	Animal studies Metabolism studies
Nickel-63	Chemical analysis using a gas chromatograph equipped with an electron-capture detector

- Item 7.** The training and experience of MRI's Radiation Safety Officer, Mr. James M. McHugh, is enclosed. Mr. Kenneth Johnson will serve at the Alternate Radiation Safety Officer when Mr. McHugh is away from the Institute. Mr. Johnson's resume is enclosed.
- Item 8.** The training and experience of individuals working in or frequenting restricted areas (i.e., authorized users) is presented in a separate bound document (enclosed). MRI requests the deletion of Dr. George Scheil from the list of authorized user. No other changes are necessary to the list of authorized users on Amendment 44 of the present license.
- Item 9.** Laboratory facilities for radioactive work are presented in Section *RSP-09* and *Appendix C* of the MRI Radiation Safety Manual (RSP). The RSP manual is separate bound document (enclosed).
- Radiation detection equipment and calibration procedures are discussed in Section *RSP-18* of the RSP manual.
- Item 10.** MRI's radiation safety program is presented in the RSP manual (enclosed in a separate bound document).
- Item 11.** Waste management procedures are presented in *Section RSP-19* of the RSP manual

(enclosed).

**Item 12.** A check for the renewal fees (Category 3M) for the amount of \$1,500 is enclosed.

**MIDWEST RESEARCH INSTITUTE**

A handwritten signature in cursive script that reads "James M. McHugh". The signature is written in dark ink and is positioned above the printed name and title.

James M. McHugh  
Radiation Safety Officer

July 31, 1995

Midwest Research Institute  
ATTN: James M. McHugh  
Radiation Safety Officer  
425 Volker Boulevard  
Kansas City, MO 64110

SUBJECT: LICENSE RENEWAL APPLICATION

Dear Mr. McHugh:

This is to acknowledge receipt of your application for renewal of the material license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified and your license number.

Sincerely,

Original Signed By  
Marianne Meenan, Chief  
Nuclear Materials Support Section

License No.: 24-02564-02  
Control No.: 398940

DOCUMENT NAME: M:\03005083.DT5

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DRSS/RIII	<input checked="checked" type="checkbox"/>							
NAME	MMEENAN:jaw	<i>MM</i>							
DATE	07/31/95								

OFFICIAL RECORD COPY

**DIVISION OF ACCOUNTING AND FINANCE  
REQUEST FOR REFUND TO EMPLOYEE/VENDOR**

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY  
COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: 240256402 L

NAME: Midwest Research Institute

ADDRESS: Attn: James M. McHugh, RSO

ADDRESS: 425 Volker Boulevard

CITY: Kansas City STATE: MO ZIP: 64110-2299

TRANS CODE: PX

TRANS TYPE: FE FUND: X5280 JOB CODE: MATU AMOUNT: \$1500

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT:           

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT:           

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT:           

TOTAL REFUND AMOUNT: \$1500

COMMENTS: Lic 24-02564-02 Extra Per Rmtng  
CK 99348 Attn: James M. McHugh

(limit comments to 40 characters, including spaces)

PREPARED BY: Sherley Greethfield DATE: May 17, 1996

AUTHORIZED BY: Sandra Kimberley DATE: 5/20/96

ORIGINAL INV. NO:            DATE PAID:            AMOUNT:           

REFUND ENTERED INTO COLLECT BY:           

REFUND DETERMINED BY:            DATE:           

**PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION**

CK 99348 Ltr 7/24/95 3M REN \$1500  
Jul 23 III 398940