

MATERIALS LICENSE

Amendment No. 06

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.

398508

| | | |
|--|---------------------------------------|--|
| Licensee | | In accordance with application dated March 27, 1995 |
| 1. Wisconsin Dept. of Health & Family Services Division of Health | | 3. License Number 48-07436-04 is renewed in its entirety to read as follows: |
| 2. P.O. Box 309 Madison, WI 53701-0309 | | 4. Expiration Date November 30, 2001 |
| | | 5. Docket or Reference No. 030-09258 |
| 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. Any Byproduct Material | A. Environmental and effluent samples | A. 1.0 millicurie |

9. Authorized Use:

- A. For possession incident to the collection and analysis of environmental and effluent samples in accordance with NRC Contract No. NRC-30-83-647.

CONDITIONS

10. Licensed material may be used at 1414 East Washington Avenue, Madison, Wisconsin and at temporary job sites of the licensee anywhere in the State of Wisconsin.
11. A. Licensed material shall be used by, or under the supervision of, Paul Schmidt, Don Hendrikse or Michael L. Mack.
- B. The Radiation Safety Officer for this license is Paul Schmidt.
12. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
13. Licensed material shall not be used in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.

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9612030120 961123
PDR ADOCK 03009258
C PDR

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

48-07436-04

Docket or Reference Number

030-09258

Amendment No. 06

14. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 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 ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey meter set on its most sensitive scale and with no interposed shielding 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.
15. 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 March 27, 1995; and
 - B. Letters dated August 21, 1996, and October 30, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 11/23/96

By

James Mullawey
Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03620
STATUS CODE: 2
FEE CATEGORY: 3P
EXP. DATE: 19950430
FEE COMMENTS:
DECOM FIN ASSUR-REDD: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: WISCONSIN, STATE OF
RECEIVED DATE: 950428
DOCKET NO: 3009258
CONTROL NO.: 398508
LICENSE NO.: 48-07436-04
ACTION TYPE: RENEWAL

2. FEE ATTACHED
AMOUNT: 680
CHECK NO.: 5701961

3. COMMENTS

SIGNED
DATE

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

1. FEE CATEGORY AND AMOUNT: 3P \$680

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT ☒
RENEWAL ☐
LICENSE ☐

3. OTHER

SIGNED
DATE

RECEIVED
MAY 08 1995
REGION III

| | |
|------------------|-----------|
| Log | May 2 III |
| Remitter | |
| Check No | 5701961 |
| Amount | \$680 |
| Fee Category | 3P |
| Type of Fee | Amendment |
| Date Check Rec'd | 5/3/95 |
| Date Completed | |
| By: | SC |

1995 MAY -3 PM 2:02

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-8 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.

APPLICATION FOR MATERIAL LICENSE

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 19406-1415

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
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 78011-8064

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 48-07436-04

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

Wisconsin Department of Health & Social Services
Division of Health
P O Box 309
Madison WI 53701-0309

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

1414 E. Washington Ave.
Madison WI 53704

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Paul Schmidt, Manager
Radiation Protection Unit

TELEPHONE NUMBER
(608) 267-4792

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

AMOUNT
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

Paul Schmidt, Manager

SIGNATURE

Paul Schmidt

DATE

3-27-95

FOR NRC USE ONLY

| TYPE OF FEE | FEE LOG | FEE CATEGORY | AMOUNT RECEIVED | CHECK NUMBER | COMMENTS |
|-------------|---------|--------------|-----------------|--------------|----------|
| | | | \$ | | |
| APPROVED BY | | | | DATE | |

RECEIVED

APR 28 1995

REGION III

398508

Tommy G. Thompson
Governor



State of Wisconsin
Department of Health and Social Services

DIVISION OF HEALTH
1 WEST WILSON STREET
P. O. BOX 309
MADISON WI 53701-0309

March 27, 1995

U.S. Nuclear Regulatory Commission, Region III
Materials Licensing Section
801 Warrenville Rd.
Lisle, IL 68532-4351

Dear Materials Licensing Section:

Enclosed is an application for renewal of NRC License Number 48-07436-04 from the Wisconsin Department of Health and Social Services. The license is scheduled to expire on 04/30/95. All of the byproduct material in our possession is in the form of calibration and standardization sources below exempt quantities.

If you have any questions, please contact me at (608) 267-4792.

Sincerely,

A handwritten signature in cursive script that reads "Paul Schmidt".

Paul Schmidt, Manager
Radiation Protection Unit

Enclosures

RECEIVED
APR 28 1995
REGION III

APR 28 1995

5. RADIOACTIVE MATERIAL

We are requesting permission to possess up to 0.5. millicurie of any by-product material including activation products contained in calibration and standardization sources, none of which will individually exceed the exempt quantities listed in 10 CFR 30.71, Schedule B. The specific nuclides are not known. Calibration standards are ordered to provide specific types and energies of radiation. The isotopes available for specific needs may vary from time to time.

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

Calibration and standardization. Sources will be used for calibration, standardization and operational checks of instruments used for radiation detection and measurement. No individual source will contain an activity exceeding the exempt quantities listed in 10 CFR 30.71, Schedule B. Sources will be obtained from the National Institute for Standards and Technology, Environmental Protection Agency, or vendors providing NIST approved sources.

Instruments for which the sources are intended are used for nuclear plant and other radiological emergency response and environmental monitoring sample analysis.

Most radioactive material is in solid sealed sources. Less than 5 sources are mixed isotopes in buffered solutions, sealed in one gallon cubitainers.

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

Paul Schmidt, Nuclear Engineer - Manager
Radiation Protection Unit
Division of Health

Formal Training:

| | | | |
|----|---------------------------|------|--------------------------------|
| BS | Botany | 1974 | Iowa State University, Ames |
| MS | Plant Taxonomy/ Botany | 1978 | Iowa State University, Ames |

Work Experience:

Wisconsin Division of Health, Radiation Protection Unit,
Environmental Engineer V - Supv, 10/89 - 3/92, Nuclear
Engineer Manager 1, 3/92 - present

Oversee the identification of the most current and effective responses to the radiological health aspects of potential accidents in nuclear power plants in or adjacent to Wisconsin that will minimize public health risk to citizens of Wisconsin, and the preparation of the peacetime radiological sections of the Wisconsin Emergency Response Plan.

Oversee the development of the technical detail and supporting data for exercise scenarios to adequately achieve the objectives of each exercise. Coordinate federal, state, local and utility agencies to insure consistent scenario design.

Develop and update training curricula and materials for, and provide training to state emergency response personnel, field teams, PIOs and county response staff regarding radiological aspects of emergency response to radiological incidents.

Develop and update a computer-generated radiation exposure code assessment capability for use in exercises and actual nuclear power plant accidents.

Provide direct supervision to staff in the Radiation Protection Unit.

Duane Arnold Energy Center, Dosimetry Supv, 3/85 - 10/89

Responsible for administration of the plant personnel exposure monitoring and in-vivo bioassay programs; development and implementation of the department budget; supervision of 2-32 people, development and instruction of training materials; coordination with other plant departments to ensure efficient outage and routine personnel processing; active participation in emergency response organization; tracking and reporting of personnel exposure, training and qualification status; implementation of the dosimetry quality control program; chemistry and environmental department audits; and maintenance of the plant hard copy and computerized exposure records systems. Knowledge of the PRISM records management system and the INDEX shared database.

Duane Arnold Energy Center, Health Physics Technician,
2/82 - 3/85

Performed and documented radiation and contamination surveys, health physics job coverage, instrument calibrations, and personnel and equipment decontamination; refuel floor lead technician during 1985 refueling outage; participated in emergency exercises; operated countroom equipment and whole body counter; performed shift chemistry analyses.

Don Hendrikse, Nuclear Engineer Senior
Radiation Protection Unit

Formal Training:

BS Chemistry 1971 University of Wisconsin, Milwaukee

U.S. Environmental Protection Agency, 6/1-1/78,
"Radiochemistry Workshop for Drinking Water"

U.S. Department of Health, Education and Welfare, 3/3-14/80,
"Diagnostic X-Ray Survey"

U.S. Nuclear Regulatory Commission, 4/16-18/80, "Dose Projection, Accident Assessment, and Protective Action Decision Making for Radiological Emergency Response Coordinators of State and Local Governments"

U.S. Nuclear Regulatory Commission, 9/15-26/80, "Radiological Emergency Response Operations for Radiological Emergency Response Teams of State and Local Governments"

U.S. Nuclear Regulatory Commission, 10/20-24/80,
"Radiochemistry for State Regulatory Personnel, Sampling and Analysis of Nuclear Effluents"

Oak Ridge Associated Universities, 11/85, "One Week Radiation Protection Engineering Course."

Oak Ridge Associated Universities, 6/93, "A One-Week Environmental Monitoring for Radioactivity Course".

Work Experience:

Wisconsin Division of Health, Radiation Protection Unit,
Nuclear Engineer Senior, 10/9/79 - present

Planned, implemented, maintained, evaluated and coordinated the Radiation Protection Unit's radiological environmental monitoring programs around nuclear power plants in or near Wisconsin in order to assure compliance of nuclear emissions with WI Stats 254.31 to 254.45 and Federal regulations 10 CFR Part 50, 10 CFR Part 20 and 40 CFR Part 61. Planned and conducted surveys of radiation installations, including planning and coordinating activities related to the detection, surveillance and monitoring of background and manmade radiation. Provided technical support in the planning and implementation of sample collection and analysis, and actions to protect the public in an event involving radioactive contamination of the environment. With other Unit staff, maintained the radiological mobile laboratory.

Wisconsin Division of Health, Radiation Protection Unit,
Radiation Chemist, 6/72 - 10/79.

Analyzed environmental samples for radioactivity using gamma isotopic and chemical procedures. Developed and implemented new procedures for the analysis of environmental samples. Established and maintained a quality control system for the counting instruments used in the analysis of environmental samples.

Michael L. Mack, Nuclear Engineer Senior
Radiation Protection Unit

Formal Training:

April, 1982, Radiological Emergency Response Training Course
for State Workers.

June, 1976, Air conditioning Refrigeration School, Norfolk,
VA.

November, 1975, Thermoluminescent Dosimetry, Norfolk Naval
Shipyard, Portsmouth, VA.

March, 1973, Engineering Laboratory Technician School, Naval
Nuclear Power Unit, Idaho Falls, Idaho.

September, 1972, Nuclear Propulsion Plant Operator School,
Mechanical Operator, Naval Nuclear Power Unit, Idaho Falls,
Idaho.

March, 1972, Nuclear Power School, Mare Island, CS.

December, 1971, Machinist Mate "A" School, Great Lakes, IL.

October, 1971, Basic Propulsion and Engineering School, Great Lakes, IL.

Attended University of Wisconsin - Madison and La Crosse.

Work Experience:

Wisconsin Division of Health, Radiation Protection Unit, 8/81
- present

Coordinate, design and implement medical and other emergency needs for area adjacent to nuclear power plants.

Write the necessary procedures and train local and state personnel to implement them in the event of a major accident at a nuclear power plant.

Act as a liaison with county, local, state and utility representatives.

Act as the state's technical spokesperson to the press at the Joint public Information Center for radiation related exercises or incidents.

Directly responsible for incidents or inquiries involving radioactive materials in the State of Wisconsin and the handling and disposal of the materials.

Participate extensively in the development of the radiation protection regulations and their implementation into the Wisconsin Administrative Code.

Inspect and assist in planning medical and industrial facilities in the State of Wisconsin to insure their compliance with State codes.

Develop and present many programs involving radiation related concerns to medical or civic groups.

Act as Radiation Waste Manager for the Unit.

U.S. Navy, Pump Maintenance Technical supervisor, SIMA, Norfolk, VA, 3/78 - 8/81.

Was responsible for supervision of personnel involved in the rebuilding and maintenance of pumps and valves.

Developed a working knowledge of precision instruments necessary to maintain the quality control of the rebuilt equipment.

U.S. Navy, lead Engineering Laboratory Technician-USS South Carolina CHN 37, 9/76 - 2/78.

Supervised and directed division personnel in the performance of their duties.

Supervised all radiation related safety and operational concerns for the two onboard nuclear reactors.

Trained and instructed occupational and non-occupational workers.

Qualified as a mechanical operator/engineer supervisor for the D2G nuclear plant.

U.S. Navy, Radiological Controls Supervisor - USS Hunley AS 31, 6/73 - 8/75.

Participated in all phases of radiation control work on a nuclear tender.

Responsible for the training of radiation works and the rest of the crew concerning proper techniques when dealing with theses types of materials.

Assisted in writing work procedures for jobs involving radioactive materials and supervised their implementation.

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

It is anticipated that only the individuals listed in Item 7 would be working in restricted areas. All sealed sources or sources used for calibration will be exempt quantities. If individuals other than those listed in Item 7 use the sources, they will be given instruction in proper use by those individuals listed in Item 7.

9. FACILITIES AND EQUIPMENT

A sketch of the area where radioactive materials will be handled is included as Attachment B. During emergency response activities, materials may be transported via the state's mobile radiological laboratory to remote sites in the state for use in sample analysis.

ATTACHMENT A - Renewal of: License Number 48-07436-04

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A current inventory (3/20/95) of equipment is listed below.
The instruments will be calibrated on a one or two year basis.

INSTRUMENT LOG (Revised 3/20/95)

GM Counters:

| <u>Manuf. Model No.</u> | <u>Serial No.</u> | <u>Location</u> | <u>Calibration Date</u> | <u>Comments</u> |
|-------------------------|-------------------|-----------------|-------------------------|-----------------|
| Eberline E-520 | 2659 | La Crosse | 5/24/94 | |
| Eberline E-520 | 2702 | Office | 7/13/94 | |
| Eberline E-520 | 2704 | Manitowoc | 5/26/94 | |
| Eberline E-520 | 2759 | Office | 2/8/94 | |
| Eberline E-520 | 2773 | Kenosha | 5/26/94 | |
| Eberline E-520 | 2800 | Office | 7/21/93 | |
| Eberline E-520 | 4399 | Office | 7/13/94 | |
| Eberline E-520 | 5343 | Office | 7/14/94 | |
| Ludlum Model 12 | 65275 | Office | 1/25/95 | with 1"x1" |
| Ludlum Model 12 | 65261 | Office | 5/26/94 | with 1"x1" |
| Ludlum Model 12 | 65249 | Office | 5/26/94 | with 1"x1" |
| Ludlum Model 12 | 65245 | Office | 1/25/95 | with 1"x1" |
| Ludlum Model 12 | 65277 | Office | 2/7/95 | with 1"x1" |
| Ludlum Model 12 | 56001 | Office | 7/14/94 | |
| Ludlum Model 12 | 55989 | Office | 2/3/95 | |
| Ludlum Model 12 | 56028 | Office | 1/23/95 | |
| Ludlum Model 12 | 56033 | Racine | 5/5/94 | |
| Ludlum Model 12 | 56005 | Office | 1/23/95 | |
| Ludlum Model 3 | 65120 | Office | 1/27/95 | |
| Ludlum Model 3 | 65724 | Office | 7/14/94 | |
| Ludlum Model 3 | 64922 | Office | 7/14/94 | |
| Ludlum Model 3 | 65875 | Eau Claire | 5/27/94 | |
| Ludlum Model 3 | 65661 | Office | 7/14/94 | |

Low Range Survey Meters:

| | | | |
|----------------|------|--------|---------|
| Eberline ASP-1 | 2993 | Office | 7/11/94 |
| Eberline ASP-1 | 3040 | Office | 7/11/94 |

Scaler Type Instruments:

| | | | |
|----------------|-------|--------|-------------------|
| Eberline PRS-1 | 757 | Office | |
| Ludlum 220 | 29692 | Office | |
| Ludlum 2200 | 31561 | Office | |
| Ludlum 2220 | 52829 | Office | 1/6/94 with 1"x1" |
| Ludlum 2220 | 52825 | Office | 1/6/94 with 1"x1" |
| Eberline RM-19 | 647 | Office | |

ATTACHMENT A - Renewal of: License Number 48-07436-04

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| <u>Manuf.</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Location</u> | <u>Calibration Date</u> | <u>Comments</u> |
|---------------|------------------|-------------------|-----------------|-------------------------|-----------------|
|---------------|------------------|-------------------|-----------------|-------------------------|-----------------|

Cutie Pie Ion Chambers:

| | | | | | |
|---------------|--|-------|--------|---------|--|
| Keithley | | 42857 | Office | 2/2/95 | |
| Keithley | | 17974 | Office | 1/30/95 | |
| Keithley | | 19134 | Office | 5/27/94 | |
| Texas Nuclear | | 46428 | Office | 2/1/95 | |
| Keithley | | 42864 | Office | | |

Ion Chambers:

| | | | | | |
|-------------------|--|------|------------|---------|--|
| Victoreen 450P | | 308 | Office | 2/16/95 | |
| Victoreen 450P | | 666 | Office | 7/20/94 | |
| Victoreen 450P | | 698 | Office | 7/19/94 | |
| Victoreen 450P | | 692 | Office | 7/20/94 | |
| Victoreen 450P | | 663 | Office | 2/16/95 | |
| Victoreen 450P | | 552 | Office | 2/20/95 | |
| Victoreen 450P | | 291 | Eau Claire | 5/25/94 | |
| Victoreen 450P | | 301 | L Crosse | 3/25/94 | |
| Victoreen 450P | | 314 | Manitowoc | 3/28/94 | |
| Victoreen 450P | | 333 | Kenosha | 5/25/94 | |
| Victoreen 450 | | 354 | Office | 2/15/95 | |
| Victoreen 450P | | 363 | Racine | 5/25/94 | |
| Victoreen 440RF/C | | 1872 | Office | 4/89 | |

Reuter Stokes:

| | | | | | |
|--------|--|-------|--------|--|--|
| RS-111 | | M-283 | Office | | |
| RS-111 | | M-295 | Office | | |
| RS-111 | | G-033 | Office | | |
| RS-111 | | K-196 | Office | | |
| RS-112 | | G-032 | Office | | |
| RS-112 | | G-033 | Office | | |
| RS-111 | | G-032 | Office | | |
| RS-112 | | K-196 | Office | | |
| RS-112 | | K202 | Office | | |

Air Samplers:

| | | | | | |
|---------------|--|------|------------|--|--|
| Radeco H-809C | | 3302 | Office | | |
| Radeco H-809C | | 3303 | Racine | | |
| Radeco H-809C | | 3304 | La Crosse | | |
| Radeco H-809C | | 3315 | Manitowoc | | |
| Radeco H-809C | | 3316 | Kenosha | | |
| Radeco H-809C | | 3317 | Eau Claire | | |
| Radeco H-809C | | 5670 | Office | | |

ATTACHMENT A - Renewal of: License Number 48-07436-04

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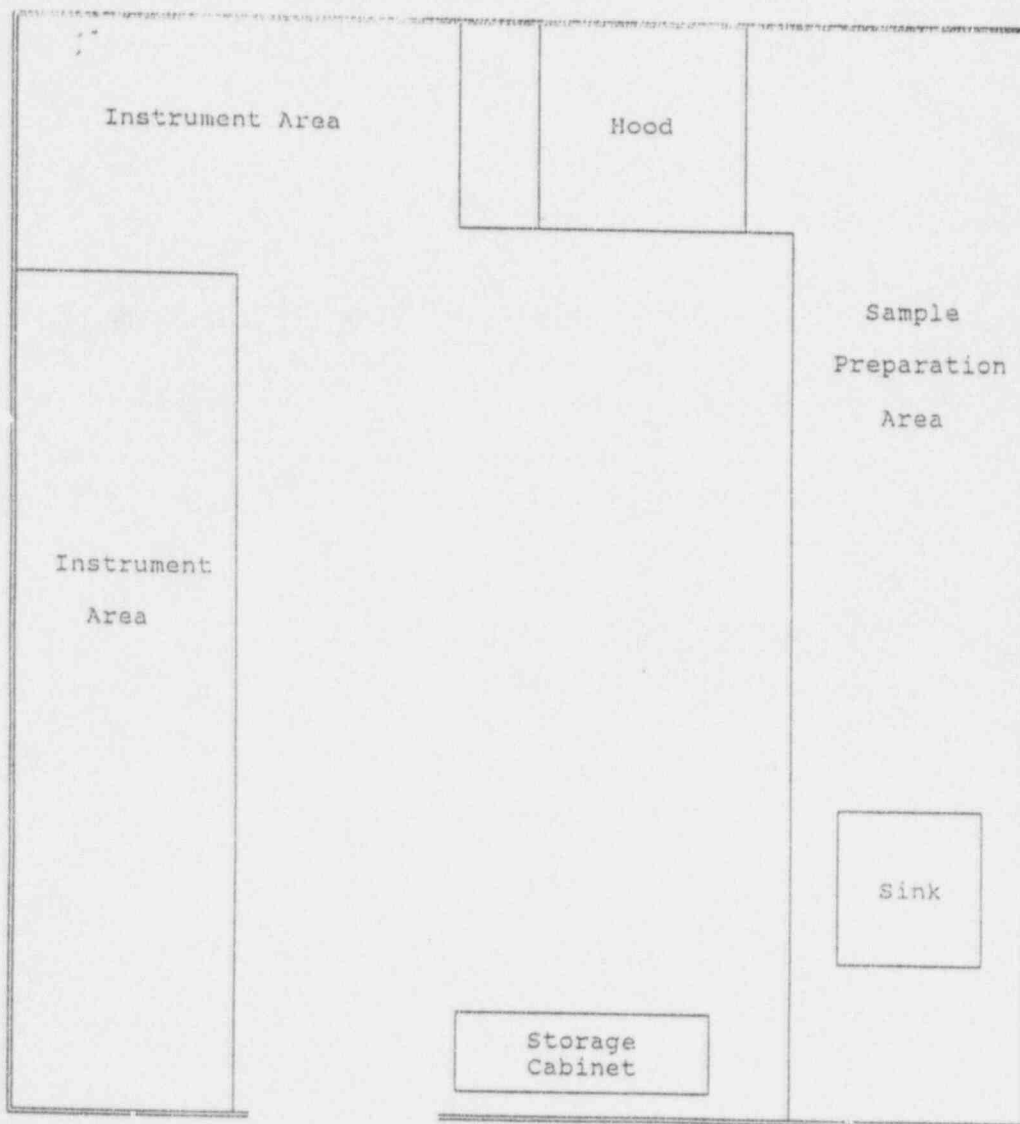
| <u>Manuf. Model No.</u> | <u>Serial No.</u> | <u>Location</u> | <u>Calibration Date</u> | <u>Comments</u> |
|--------------------------|-------------------|-----------------|-------------------------|-----------------|
| Alpha Detectors: | | | | |
| Ludlum Model 12 | 63763 | Office | 8/2/91 | |
| Ludlum Model 12 | 63755 | Office | as needed | |
| Multi-Channel Analyzers: | | | | |
| Canberra Series 20 | | Office | NA | w/3x3 NaI |
| Canberra Inspector | | Office | NA | w/Ge Jet |

10. RADIATION SAFETY PROGRAM

All work performed using exempt quantities of liquid radioactive sources obtained from the National Institute of Standards and Technology (NIST), Environmental Protection Agency or other vendors will be done in the area of which a sketch is included in Attachment B. A survey of the area where the sources are used will be done at least quarterly. Survey results are recorded on the form included as Attachment C.

10. RADIATION SAFETY PROGRAM

COUNTING ROOM



1. Enter corresponding numbers for wipe tests on the back of this sheet in the appropriate locations on the front.
2. Enter readings in $\mu\text{r/hr}$ in appropriate locations.

ATTACHMENT C - Amendment to: License Number 48-07436-04

10. RADIATION SAFETY PROGRAM

Example of survey report form.

| | | |
|-----------------|-------------------------|----------|
| _____ | _____ | _____ |
| Date | Reason for Survey | |
| _____ | _____ | _____ |
| Instrument Used | Instr. Calibration Date | Surveyor |

WIPES

| | <u>Location</u> | <u>*Results in CPM>BKGD</u> |
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Remarks: _____

* NOTE: 100 CPM>BKGD is considered to be the level at which corrective action must be taken. Levels below 100 CPM>BKGD will be recorded as <100 CPH.

NOV 25 1996

Paul Schmidt
Radiation Safety Officer
Wisconsin Dept. of Health & Family
Services
Division of Health
P.O. Box 309
Madison, WI 53701-0309

Dear Mr. Schmidt:

Enclosed is Amendment No. 06 renewing your NRC Material License No. 48-07436-04 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 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.
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).

348508

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 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,

P. Schmidt

-3-

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
James R. Mullauer, M.H.S.
Health Physicist
Nuclear Materials Licensing Branch

License No. 48-07436-04
Docket No. 030-09258

Enclosure: Amendment No. 06

DOCUMENT NAME: M:\03009258.CL6

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| OFFICE | DNMS/BNL | | | | | | | | |
| NAME | JRMullauer:brt | | | | | | | | |
| DATE | 11/23/96 | | | | | | | | |

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Tommy G. Thompson
Governor

Joe Leean
Secretary

State of Wisconsin

Department of Health and Family Services

DIVISION OF HEALTH

BUREAU OF PUBLIC HEALTH
1414 E. WASHINGTON AVE., ROOM 167
MADISON WI 53703-3044

(608) 266-1251

10/30/96

James R. Mullauer, M.H.S.
Nuclear Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

License No. 48-07436-04
Control No. 398508

Dear Mr. Mullauer:

Thank you for your letter of September 11, 1996 requesting more information regarding our application for renewal of our NRC license No. 40-07436-04. The following information responds to your questions in the order in which you presented them. Throughout the responses, the term "licensed material" refers to NRC regulated materials in quantities greater than those listed in 10 CFR 30.71, schedule B, taken into possession by the Radiation Protection Unit of the Wisconsin Department of Health and Family Services.

1. Radiation Safety Officer: The Radiation Safety Officer for this license is Paul Schmidt, Radiation Protection Unit Manager. His training and experience is identified in the application submitted March 27, 1995. The duties and responsibilities of the Radiation Safety Officer are as follows:
 - a) Assess radiological hazards, prescribe and ensure the implementation of appropriate radiation safety precautions.
 - b) Ensure that the use of licensed material is by or under the direct supervision of individuals specifically listed on the license
 - c) Ensure that all users (where appropriate) wear personnel monitoring equipment when using licensed materials.
 - d) Ensure that licensed materials are properly secured against unauthorized removal at all times when not in use.

RECEIVED
OCT 31 1996
REGION III

OCT 31 1996

- e) Ensure that the terms and conditions of the license are met, and that all required records are maintained.
2. Training: Licensed material is not normally present in the facilities of the Radiation Protection Unit. In the event that environmental samples are found to contain licensed material, all handling of the material will be done under the direct supervision of the individuals named in the license. Other personnel who handle licensed materials will have had, at a minimum, the following training before doing so:
- a) One hour of training in each of the following topics:
 - i) Basics of radiation
 - ii) Health effects of ionizing radiation
 - iii) Radiation detection instrumentation
 - iv) Contamination control and emergency response
 - v) Regulations related to handling radioactive material.
 - b) At least one hour of refresher training covering the topics listed above, within one year prior to handling the licensed material.

Records of all training will be maintained at the Radiation Protection Unit office.

Untrained personnel, such as housekeeping, clerical and security personnel, will not be permitted to enter the area of use when licensed materials are present. The door to the work area will be locked when personnel identified above are not present. After licensed materials are removed, a survey and, if necessary, decontamination will be done before untrained personnel are allowed to enter the area.

3. Instrumentation: We do not calibrate our own radiation survey and monitoring instruments. The listed instruments are calibrated annually by the manufacturer or by the University of Wisconsin Calibration Laboratory, a NIST certified calibration service.
4. Personnel Monitoring:
- a) All technical and professional staff in the Radiation Protection Unit have been issued TLD body badges. Dosimeters will be worn by anyone handling licensed material.
 - b) Badged individuals wear TLD body dosimeters.
 - c) Dosimeters are exchanged monthly.

- d) Dosimetry service is provided by ICN Dosimetry Service, H.E. Division (formerly Siemens Dosimetry Service), a NVLAP accredited dosimetry processor. Dosimeters are exchanged monthly. If a new dosimetry processor is chosen, it will be a NVLAP accredited provider.
5. Survey Program: Licensed materials are not handled on a routine basis in our program. The following procedures will be followed in the event that a radioactive materials incident results in our collecting environmental samples which contain greater than exempt quantities of radioactive materials.
- a) Sample activities will be quantified using an intrinsic germanium detector. We do not foresee the situation in which the activity of any nuclide will exceed 1 millicurie in an environmental sample. However, if the situation arises, we will immediately contact the Nuclear Regulatory Commission for advice on how to proceed.
 - b) All handling of potentially contaminated samples will be done in Room 162A, 1414 East Washington Avenue, shown in Attachment B. A survey of the room will be done at the end of each day when licensed materials are handled in Room 162A. Levels will be limited to 450 pCi/100cm² of loose contamination and 2 mR/hr exposure rates. Radiation levels in unrestricted areas will be limited to those specified in 10 CFR 20.1301. If these levels are exceeded, the areas will be decontaminated or shielded, as appropriate. All survey results will be recorded in the units required by 10 CFR Part 20 on the Survey Report Form included as Attachment C, and retained in the Radiation Protection Unit files.
6. Management of the Radiation Safety Program
- a) There will be no routine use of licensed materials. The Radiation Protection Unit will possess licensed material only in the unlikely event that an environmental sample contains greater than exempt quantities.
 - i) When no licensed materials are in use, a detailed radiation safety audit serves no purpose. At those times, the Radiation Safety Officer will forward a statement annually to his supervisor, the Section Chief of the Environmental Epidemiology and Prevention Section (EEPS), confirming that there has been no use of licensed material under this license.

If licensed material is in possession of the Radiation Protection Unit, the Radiation Safety Officer will audit the program annually for compliance with NRC regulations and conditions of the license. A report of the audit's findings will be submitted to the EEPS Section Chief, who will forward it to senior management. An evaluation of program performance relative to NRC regulations and license conditions will be included in the report.

- ii) If licensed materials are in use, Radiation Safety Officer and staff performance will be reviewed annually by the EEPS Section Chief. Results of the review will be forwarded to senior management.
 - iii) There are no users separate from the Radiation Safety Officer and staff named in the license. There is only one location of use of the material, mentioned in item 5.b) above. Therefore, there is no need to have a separate program to audit user compliance.
- b) Accountability "throughout the institution" does not apply, since only the Radiation Safety Officer and staff will handle or store licensed materials in a single location. If an incident occurs during which samples containing licensable quantities of material are collected, sample tracking will be done on a sample log form. The form will include a unique identifier for each sample, the date the sample was collected and the activity of any radionuclides found in the sample. The form will allow the total activity in possession to be determined at any time. Personnel collecting and analyzing samples will have copies of the most recent inventory information in their possession.
- c) There will not be separate users, user locations or material inventories under this license, so transfer and transport between users does not apply. Samples containing licensed material will be transported from field locations in state-owned vehicles in accordance with regulations in Title 49, Code of Federal Regulations.
- d) If licensed material is possessed or used, records of the following activities will be maintained at the Radiation Protection Unit office:
- i) Radiation safety training, including initial and retraining, list of topics covered, amount of time spent, date(s) and the instructor'(s) and student(s) names,

- ii) Results of audits and surveys performed by the Radiation Safety Officer and staff,
- iii) Decay-in-storage waste records, including the date licensed material is placed into storage, and the date and results of surveys performed when disposed,
- iv) Receipt and transfer of licensed material,
- v) Licensed material inventory,
- vi) Calibration of radiation monitoring instruments and equipment, and
- vii) Personnel monitoring results.

7. General Laboratory Safety Instructions

- a) Instructions for the safe use of radioactive materials will be posted in the radioactive materials work area if licensed materials are possessed by the Radiation Protection Unit. A copy of the instructions is included as Attachment D.
- b) If licensed material is in possession of the Radiation Protection Unit, it will be under the constant surveillance of personnel identified in item 2. When none of these personnel are present, the room where the material is stored will be locked, or the material will be secured in a locked cabinet in the room.
- c) Packages containing licensed material will not be received from outside sources. Any licensed material received will be collected and brought to Radiation Protection Unit facilities by personnel identified in item 2. There are no foreseeable situations in which sample activities would be greater than the limited quantities specified in 49 CFR 173.423. However, if samples transported from field locations require Type A packaging, the packages will be surveyed according to 10 CFR 20.1906 when they arrive at the Radiation Protection Unit facility.
- d) Major spills involving significant hazards to personnel are not possible with the types and quantities of licensed material that will be handled. One procedure will be followed for all spills. The procedure is included as Attachment E. The name and telephone


numbers for the Radiation Safety Officer and the other personnel who need to be notified are included on the emergency procedures. The room where material will be used is within 50 feet of the offices of the individuals who need to be notified, so office phone numbers are not included on the procedure. Since radioactive material will only be handled in the presence and under the direct supervision of personnel identified in item 2, who are trained in radiological emergency response and contamination control, extensive proceduralization is not necessary.

8. Waste Management

- a) Radioactive wastes with half-lives less than 65 days may be disposed of by the methods listed in item 8. b) below, or held for decay-in-storage. Wastes held for decay-in-storage will be stored for at least ten half-lives, surveyed in a low background area with a low level survey meter with all shielding removed, and disposed of as normal trash only if radiation levels are at background. Records of surveys prior to disposal will be maintained.
- b) Radioactive wastes not held for decay-in-storage will be disposed of by one of two means:
 - i) Disposal to the sanitary sewer system in accordance with 10 CFR 20.2003, or
 - ii) Shipment through a licensed broker to a licensed disposal facility.

I hope this information satisfactorily answers your concerns. If more information is needed, feel free to contact me at (608) 267-4792.

Sincerely,

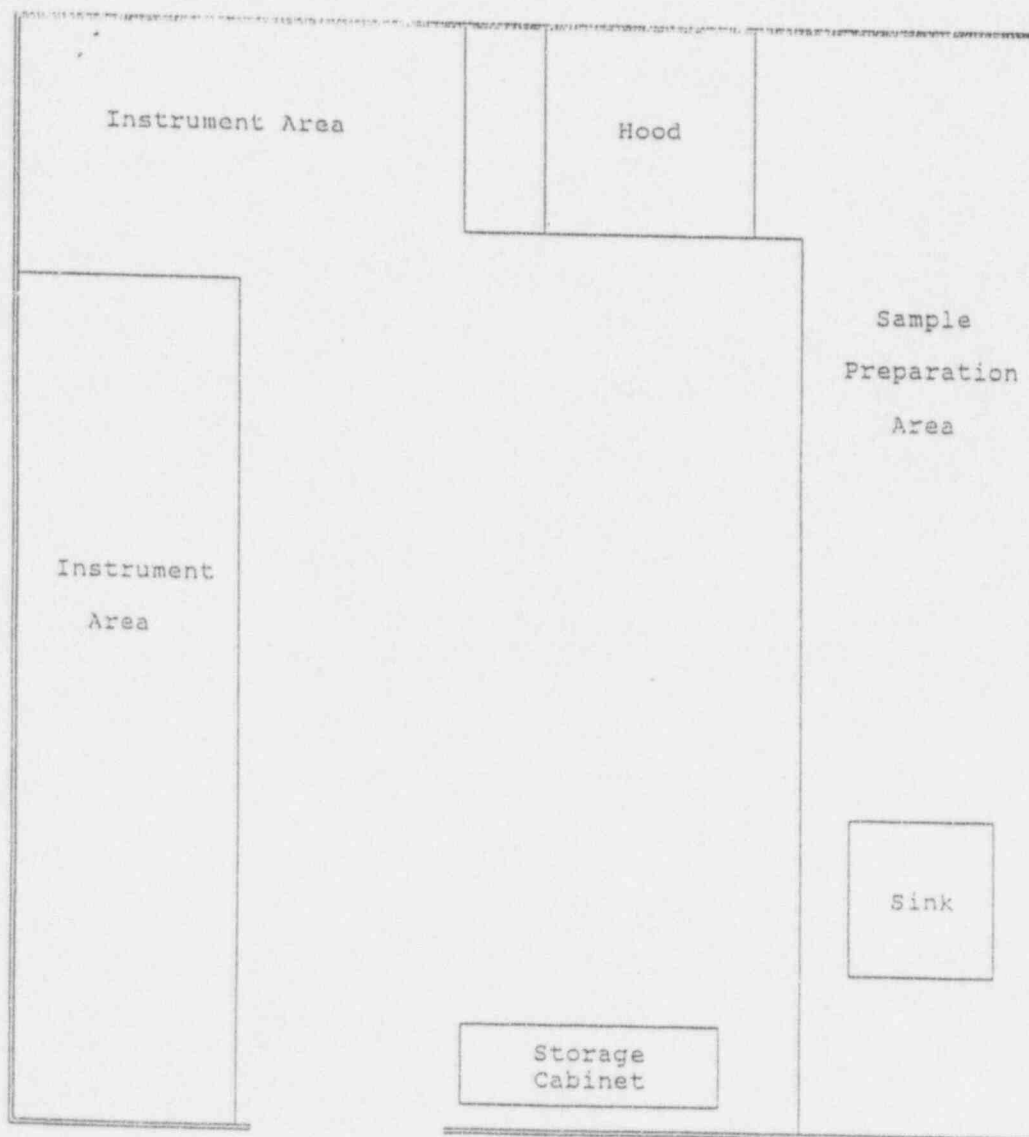


Paul Schmidt, Manager
Radiation Protection Unit

enclosures

Attachment B

COUNTING ROOM



1. Enter corresponding numbers for wipe tests on the back of this sheet in the appropriate locations on the front.
2. Enter readings in mr/hr in appropriate locations.

License No. 48-07436-04

Control No. 398508

Attachment C

Survey Report Form

Date Reason for Survey

Instrument Used Instr. Calibration Date Surveyor

WIPES

| | Location | *Results in pCi/100cm ² |
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Remarks: _____

* Note: 450 pCi/100cm² is considered to be the level at which corrective action must be taken.

Attachment D

Lab Safety Procedures

- **Wear laboratory coats or other protective clothing at all times in areas where licensed materials are used.**
- **Wear disposable gloves at all times while handling licensed materials.**
- **Either after each procedure or before leaving the area, monitor your hands for contamination in low-background area.**
- **Do not eat, drink, smoke or apply cosmetics in any area where licensed material is stored or used.**
- **Do not store food, drink or personnel effects in areas where licensed material is stored or used.**
- **Wear required personnel monitoring devices at all times while in areas where licensed materials are used or stored.**
- **Dispose of radioactive waste only in designated, labeled and properly shielded receptacles.**
- **Confine radioactive solutions in clearly labeled containers.**
- **Secure all licensed material when not under the constant surveillance and immediate control of the authorized users.**

Attachment E

Emergency Procedures For Radioactive Material Spills

- Set up a control line to keep unauthorized personnel out of the area
- Cover or surround with absorbent material to limit the spread of the spill.
- Have personnel not involved in the response leave the area.
 - Survey them upon exit to prevent them from spreading contamination.
- Notify Paul Schmidt or, if he is not available, Michael Mack
 - If they are not in their office, contact one of them at the following numbers

| <u>Name</u> | <u>Home Phone</u> | <u>Pager</u> |
|--------------|-------------------|----------------|
| Paul Schmidt | (608) 592-4917 | (608) 275-1346 |
| Mike Mack | (608) 846-5320 | (608) 273-7071 |

- Begin cleanup of the area after contacting one of the above persons.

SEP 11 1996

Paul Schmidt
Radiation Safety Officer
Wisconsin Department of Health
and Family Services
Division of Health
P.O. Box 309
Madison, WI 53701-0309

Dear Mr. Schmidt:

We have reviewed your application dated March 27, 1995, and letter dated August 21, 1996, for renewal of your NRC license No. 48-07436-04 and find that we need the following additional information in order for us to continue our review. Please provide your responses in the same order as presented in this letter.

1. Radiation Safety Officer

Please provide a description of your duties and responsibilities as the Radiation Safety Officer. Typical duties of a Radiation Safety Officer, for example, are:

- a. To assess radiological hazards, prescribe and ensure the implementation of appropriate radiation safety precautions.
- b. To ensure that the use of licensed material is by or under the direct supervision of individuals specifically listed on your license.
- c. To ensure that all users (where appropriate) wear personnel monitoring equipment when using licensed materials.
- d. To ensure that licensed materials are properly secured against unauthorized removal at all times when not in use.
- e. To perform routine inspections of all laboratories using or storing licensed materials.
- f. To ensure that the terms and conditions of your license are met, and that all required records are maintained.

2. Training

Ancillary personnel (clerical, housekeeping, security, etc.) whose duties may require them to work in the vicinity of licensed material (whether escorted or not) need to be informed about radiation hazards and appropriate precautions. Please outline

398508

your method to assure that these employees receive the necessary instruction and confirm that this instruction will be given both initially and annually thereafter on a refresher basis.

3. Instrumentation

If you propose to calibrate your own radiation survey and monitoring instruments, please provide a detailed description of your planned calibration procedures. The description of calibration procedures needs to include, as a minimum:

- a. The manufacturer and model number of the source(s) to be used.
- b. The nuclide and activity of the licensed material contained in the source.
- c. The accuracy of the source(s). Traceability of the source to a primary standard should be provided.
- d. The step-by-step procedures, including associated radiation safety procedures. These procedures should include a two-point calibration of each scale of each instrument with the points separated by at least 50% of the scale.
- e. The name(s) and pertinent experience of person(s) who will perform the calibrations.
- f. A description and diagram of your calibration facility showing measured radiation fields in all unrestricted areas around your facility.

4. Personnel Monitoring

Please provide a description of your personnel monitoring program which addresses the following:

- a. the criteria you will use to determine which groups of workers will be assigned dosimetry,
- b. types of devices which will be used (e.g., film badges, TLD, body, wrist, ring),
- c. frequency of exchange, and
- d. the NVLAP accredited dosimetry processor you will use.

5. Survey Program

- a. Since you request potentially radioactive contaminated environmental samples, please discuss how you will quantify the samples to assure that your possession limit of 1 millicurie is not exceeded.
- b. Please provide a more complete description of the routine survey program, including the areas to be surveyed, the types and levels of radiation and contamination considered to be acceptable, and provisions for maintaining records of surveys. The individual user should supplement the surveys performed by the radiation staff. Regularly used laboratories should be surveyed for contamination at the end of each workday when radioactive materials are used, and the user should maintain records of each surveys in units required by 10 CFR Part 20, even if only a single measurement is necessary. Please also specify the action limits for radiation and contamination surveys and the actions to be taken when these limits are exceeded. The action limits should be in appropriate units.

6. Management of the Radiation Safety Program

- a. 10 CFR 20.1101(c) requires that the licensee review the radiation protection program content and implementation at least annually. Please provide a description of your program for performing the required annual review. It should include the following criteria:
 - (1) Senior management oversight of the radiation protection program. Specify the mechanisms that will be used by senior management to ensure that they are aware of NRC regulations, the provisions of the license, and the compliance status of the institution's licensed program.
 - (2) Review of the Radiation Safety Officer and staff performance. Specify the minimum qualifications for an individual who will perform this review, and confirm that the results will be reported to senior management.
 - (3) Audits by the Radiation Safety Officer and staff to determine user compliance with the requirements of the NRC license and your radiation protection program. Audits should include such topics as: reviews of users' inventory and survey records, evaluation of users' radiation safety procedures through observation and discussion, and performance of independent work area surveys.

- b. Please describe your licensed material inventory, control and accountability program. Your inventory and control system should have the capability to assure that licensed material possession limits are not exceeded and that material is accountable throughout the institution at any given time.
- c. Please provide your procedures for transfer and transportation of licensed material between authorized users at your facility, and your procedures for transfer and transportation of licensed material from field locations. Describe your program to control such transfers, including update of material inventory and audits of users' procedures.
- d. Please confirm that you will maintain records of the following activities:
 - (1) radiation safety training, including initial and retraining, list of topics covered, the amount of time spent, the date(s), and the instructor(s) and student(s) names.
 - (2) results of audits and surveys performed by the Radiation Safety Officer and staff.
 - (3) decay-in-storage waste records, including the date licensed material is placed into storage, and the date and results of surveys performed when disposed.
 - (4) receipt and transfer of licensed material.
 - (5) licensed material inventory.
 - (6) calibration of radiation monitoring instruments and equipment.

7. General Laboratory Safety Instructions

- a. Please provide a copy of your laboratory instructions for the safe use of radioactive materials. Typical instructions should include:
 - (1) Wear laboratory coats or other protective clothing at all times in areas where licensed materials are used.
 - (2) Wear disposable gloves at all times while handling licensed materials.
 - (3) Either after each procedure or before leaving the area, monitor your hands for contamination in low-background area.
 - (4) Do not eat, drink, smoke or apply cosmetics in any area where licensed material is stored or used.

- (5) Do not store food, drink or personnel effects in areas where licensed material is stored or used.
 - (6) Wear required personnel monitoring devices at all times while in areas where licensed materials are used or stored.
 - (7) Dispose of radioactive waste only in designated, labeled and properly shielded receptacles.
 - (8) Never pipette by mouth.
 - (9) Confine radioactive solutions in clearly labeled containers.
 - (10) Secure all licensed material when not under the constant surveillance and immediate control of the authorized users.
- b. 10 CFR 20.1801 requires that licensed material be secured against unauthorized removal from the place of storage. 10 CFR 20.1802 requires that the licensee control and maintain constant surveillance over materials in unrestricted areas that are not in storage. In your application, you did not indicate how you will secure licensed material. Please describe how you will preclude the unauthorized removal of licensed material from the place of storage and in unrestricted areas.
- c. Please provide procedures for examining incoming packages for leakage, contamination, or damage and for safely opening packages in accordance with 10 CFR 20.1906. The monitoring should be performed as soon as practicable after receipt of the package of licensed material. The procedures may vary depending upon the quantity of licensed material received, but should, at a minimum, include instructions for surveying packages, wearing gloves while opening packages, and checking packing material for contamination. Even though certain packages are exempt from immediate monitoring, all licensees must have safe opening procedures for all packages containing licensed material in accordance with 10 CFR 20.1906(e).
- d. Please provide a copy of the emergency procedures you will follow in case of spills or other types of accidents involving licensed materials. It is recommended that such procedures contain:
- (1) instructions to be followed during minor spills,
 - (2) instructions to be followed during major spills, and

- (3) confirm that your radiation protection officer's name, his office phone number, and a phone number to be used during off-duty hours will be specified on the procedures posted at your facility.

8. Waste Management

- a. Please provide your procedures for disposal of radioactive waste. If you will hold your waste for decay-in-storage, please confirm that you will hold the radioactive waste with half lives less than 65 days in storage for at least 10 half-lives, survey the waste in a low background area with a low-level survey meter with all the shielding removed, and that you will not dispose of the waste as normal trash unless the radiation level is at background. Please confirm that you will maintain records of these surveys.
- b. Please discuss your method of disposing radioactive material with half lives greater 64 days.

We will continue our review of your application upon receipt of this information. Please reply in duplicate, within 20 days, and refer to Control Number 398508.

If you have any questions or require clarification on any of the information stated herein, you may contact me at (630) 829-9873.

Sincerely,

Original Signed By
James R. Mullauer, M.H.S.
Health Physicist
Nuclear Materials Licensing Branch

License No. 48-07436-04
Docket No. 030-09258

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| OFFICE | DNMS/RIW | | | | | | | | | |
| NAME | JRMULLAUER:jaw | | | | | | | | | |
| DATE | 09/11/96 | | | | | | | | | |

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Tommy G. Thompson
Governor



State of Wisconsin
Department of Health and Social Services

DIVISION OF HEALTH
BUREAU OF PUBLIC HEALTH
1414 E. WASHINGTON AVE., ROOM 167
MADISON WI 53703-3044

(608) 266-1251

August 21, 1996

James Mullauer
U.S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Mullauer:

This letter contains clarifications to the material submitted on March 27, 1995 with the renewal application for License Number 48-07436-04. The licensee name in Item 2 of the application has changed. The licensee is still the same agency, and the address is unchanged. However, the name has changed to better reflect the agency's current responsibilities. The new name for the licensee identified in Item 2 is:

Wisconsin Department of Health and Family Services
Division of Health
P.O. Box 309
Madison, WI 53701-0309

In addition, changes have been made to Attachment A, Items 5, 6, 8 and 10, and to the narrative section of Item 9. The Instrument Log in Item 9 is unchanged. The changes identified on the following pages should replace the wording in the corresponding items in Attachment A of the renewal application submitted on March 27, 1995. If you have further questions, please contact me at (608) 267-4792.

Thank you for your consideration of the application.

Sincerely,

Paul Schmidt

Paul Schmidt, Manager
Radiation Protection Unit

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AUG 26 1996
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AUG 26 1996

5. RADIOACTIVE MATERIAL

We are requesting permission to possess up to 1 millicurie of any byproduct material including activation products contained in any environmental or effluent samples collected at U.S. NRC licensed facilities under provisions of a monitoring contract between the Wisconsin Department of Health and Family Services and the Commission.

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

Environmental or effluent samples. Environmental samples are collected in connection with NRC Contract # NRC-30-83-647. This contract is executed between the State of Wisconsin (Radiation Protection Unit) and the U.S. NRC for the purpose of obtaining independent measurement data of environmental samples collected in the area of nuclear facilities located within Wisconsin borders. These samples are collected offsite and the analysis is used to detect radioactivity in the environment resulting from plant operation. The data is also used to assure that the licensee is making proper radioactivity measurements on environmental samples.

Normally the environmental samples that are collected will contain only background levels of radioactivity. However, in certain instances, these samples may contain radioactive material above background levels and in quantities that are subject to licensing under Title 10, Code of Federal Regulations, Part 30. The collection and transportation of NRC regulated samples will be done under the supervision of those individuals mentioned in Item 7 and in concurrence and under the direction of U.S. NRC Region III.

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

It is anticipated that only the individuals listed in Item 7 would be working in the restricted area with the materials listed in Item 5. Individuals other than those listed in Item 7 who use the sources, will be given instruction in proper use by those individuals listed in Item 7.

9. FACILITIES AND EQUIPMENT

A sketch of the area where radioactive materials will be handled is included as Attachment B. During emergency response activities, materials may be transported via the state's mobile radiological laboratory for sample analysis.

10. RADIATION SAFETY PROGRAM

All work using the radioactive materials described in Item 5 will be performed in the area of which a sketch is included in Attachment B. A survey of the area where the sources are used will be done at least quarterly. Survey results are recorded on the form included as Attachment C.

May 2, 1995

State of Wisconsin
Department of Health & Social Services
ATTN: Paul Schmidt
Nuclear Engineer
P. O. Box 309
Madison, WI 53701

SUBJECT: LICENSE RENEWAL APPLICATION

Dear Mr. Schmidt:

This is to acknowledge receipt of your application for renewal of the material(s) 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. 48-07436-04
Control No. 398508

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