

LANGLADE COUNTY MEMORIAL HOSPITAL

OWNED AND CONDUCTED
BY
THE RELIGIOUS HOSPITALLERS OF ST. JOSEPH
ANTIGO, WISCONSIN
54409

DIAL 623-2331
AREA CODE 715

July 22, 1985

U.S. Nuclear Regulatory Commission
Radioisotopes Licensing Section
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: Amendment to our NRC Radioactive Materials License #48-17481-01

Gentlemen:

We request amendment to our NRC Radioactive Materials License #48-17481-01 to add the following facilities:

Memorial Hospital of Taylor County and
Memorial Nursing Home
Medford, Wisconsin

and

Holy Cross Hospital
601 Center Avenue South
Merrill, Wisconsin 54452

Applicant	July 22, 1985
Check No.	029991
Amount	\$120
Type of Fee	Hand
Date Check Rec'd	8/5/85
Received By	[Signature]

In support of this request, we offer the following:

1. Attached are letters from the administrators of these facilities, authorizing our group to provide services to these hospitals. Also attached are facility sketches indicating the area in which nuclear medicine procedures will be performed.
2. Please be advised these locations will be temporary job sites. Procedures regarding use and transportation of radioactive materials are enclosed.
3. Langlade Memorial Hospital will be leasing a Ford Ranger Pick-up truck with a topper on it for Scott M. Henricks, RTR, CNMT, NMTCB to transport radioactive materials. Ammo boxes will be placed in the back of the truck and secured by braces or straps to prevent shifting during transport. Transportation of radiopharmaceuticals will be followed as per attached instructions.
4. Both Holy Cross and Memorial Hospital of Taylor County are buying G.E. Porta camera's and they will be permanently located at each site.
5. We will be doing Tc-99m aerosol lung ventilation scans. We will not use Xenon-133.

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6. A survey with a low level g.m. survey meter will be performed prior to leaving the facilities each day to confirm all radioactive materials have been removed and that no contamination exists.
7. A physician will be on site at the hospital at the time radiopharmaceuticals are administered.
8. The physicians to be using radioactive materials at the above sites are:

Jacob H. Martens, M.D.
E. B. Koschmann, M.D.
Vina Luthra, M.D.

For training and experience of the above, please reference NRC License #48-01032-01, Wausau Hospital Center, 333 Pine Ridge Blvd, Wausau, Wisconsin 54401.

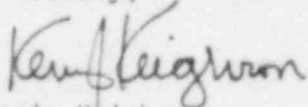
D. M. Nowinski, M.D.
G. H. Brister, M.D.
William M. Mahony, M.D.
Henry Kamemoto, M.D.

For training and experience of the above, please reference NRC License #48-17481-01, Langlade County Memorial Hospital, Antigo, Wisconsin.

Our facility is a county hospital and is exempt from license fees.

We trust the information contained herein is sufficient to grant our request for amendment to our license and look forward to receipt of that document.

Sincerely,



Kevin Keighron
Executive Director

:amw



MEMORIAL HOSPITAL OF TAYLOR COUNTY
AND MEMORIAL NURSING HOME

MEDFORD, WISCONSIN 54451
TELEPHONE: 715-748-2600

EUGENE W. ARNETT
PRESIDENT

June 17, 1985

Mr. Scott Henrich
Nuclear Medicine Technician
Langlade Memorial Hospital
112 East 5th Avenue
Antigo, Wisconsin 54409

Dear Mr. Henrich:

In accordance with our discussion between Memorial Hospital of Taylor County, Inc. and Langlade Memorial Hospital Nuclear Medicine Department to provide nuclear medicine scans at our institution, I am hereby granting approval to do nuclear medicine scans in our facilities. This approval is for the provision for providing nuclear scanning diagnostic procedures by your technicians.

We request that you apply for the proper licensure. We do not have an active NRC license nor have we ever applied for one.

We look forward to having you begin this service as soon as the proper licensure has taken place.

Sincerely yours,

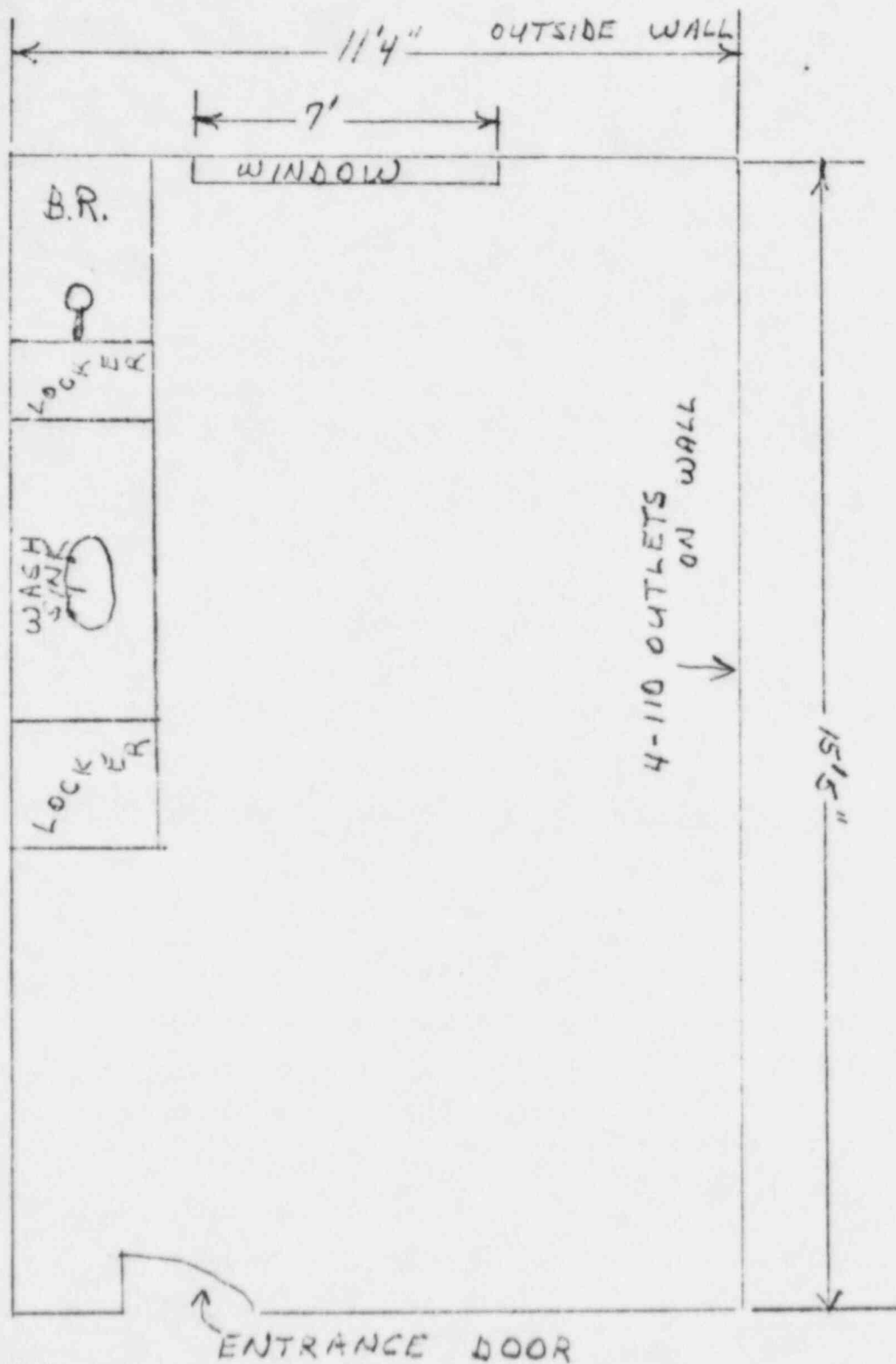
Eugene W. Arnett
President

EWA:bmm

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PROPOSED ROOM
FOR DOING M.M. SCANS

MEMORIAL HOSA OF TAYLOR CO





Holy Cross
Hospital

July 1, 1985

Mr. Kevin Keighron
Executive Director
Langlade Memorial Hospital
112 E. Fifth Avenue
Antigo, Wisconsin 54409

Dear Mr. Keighron:

As Administrator of Holy Cross Hospital, I formally request Langlade Memorial Hospital to provide Nuclear Medicine Services and the use of radioactive material at Holy Cross Hospital.

Holy Cross Hospital does not have a NRC license at this time.

Thank you for the ability to provide these services to the patients of our area.

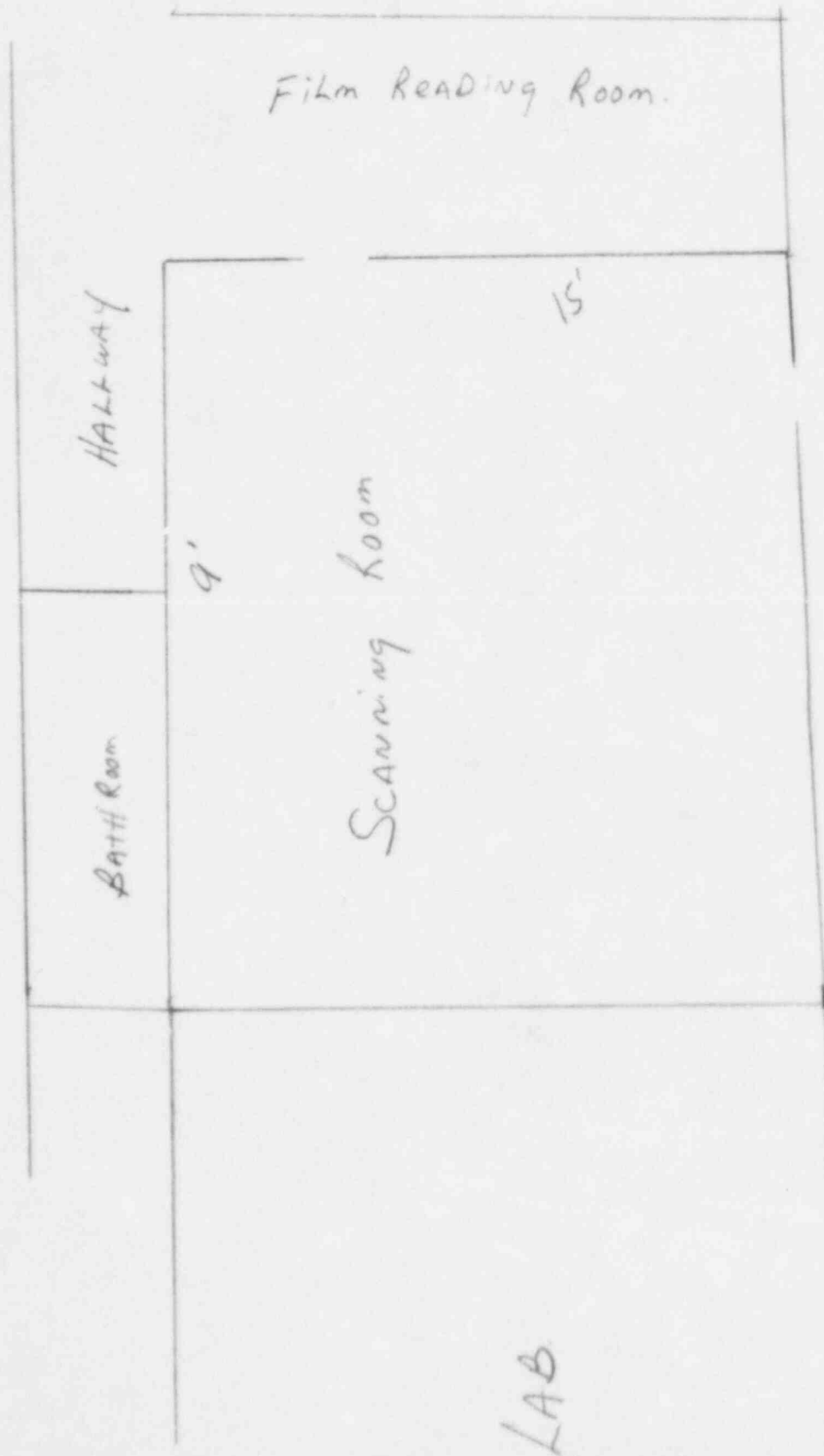
Sincerely,

Sister Mary Charles

Sister Mary Charles
Administrator

SMC:kj

CONTROL NO. 7 9400



NA

TRANSPORTING RADIOACTIVE MATERIALS (Page 1 of 2)

Notwithstanding Section 35.14 (b) (1) (i) of 10 CFR 35, the licensee may transport radioactive materials to temporary job sites listed in Item 1b attachment of this application. There will be no storage of radioactive materials at any of the satellite hospitals. Any used radioactive sources or syringes containing residual radioactivity will be returned to this licensee's storage area.

TRANSPORT PROCESS:

All radioactive material will be transported by van or car by the licensed physician users or Nuclear Medicine technologist employed by this license applicant. This carrier will be responsible for pickup, packaging, and transporting radioactive materials between the base and satellite hospitals. Radioactive materials will at all times be in the possession of this individual during the entire transporting process.

PACKAGE DESCRIPTION:

All radioactive materials will be placed within lead shipping containers sufficient to reduce external exposure to background levels or as low as reasonably achievable. These lead shipping containers will be sealed with tape and placed in a DOT approved container which is locked to restrict access by unauthorized personnel and secured to the vehicle. Through layering of absorbent material in the package, the lead shipping container(s) will be placed in the geometrical center of the package.

Any applicable Department of Transportation regulations with reference to vehicle placarding will be followed.

LABELING:

Package: The package described above will be labeled on opposite sides with "radioactive materials package" labels as specified in 49CFR172.403 and 172.436 through 172.438. Appropriate "radioactive materials package" labels will be determined by exposure rate limits as specified in 49CFR172.399. "Caution - Radioactive Materials" label and the trefoil radiation symbol will be posted on the top of the package.

VIALS AND/OR SYRINGES:

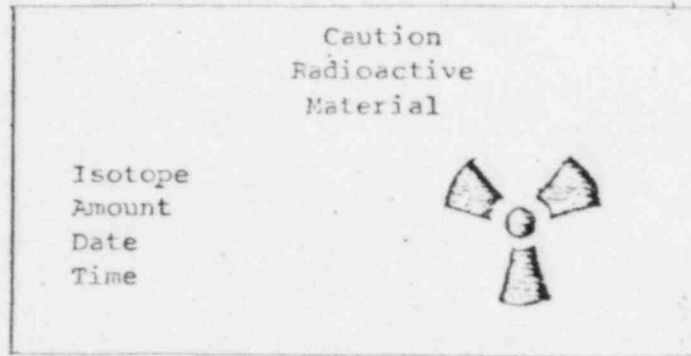
Each vial or syringe containing radioactive material will be labeled to note the following:

1. Date and time of assay
2. Radioactive material identity (Radionuclide and chemical form)

3. Activity at time of assay.

Each label will contain the trefoil radiation symbol and the words "Caution-Radioactive Materials".

Sample Label



The above sample is a facsimile of Nuclear Associates, Inc., Model 09-112, pressure sensitive tape with official NRC radiation symbol in magenta on a yellow background. Each label from this roll tape measures about 1" wide by 2" in length.

ASSAYS

All assays, material preparations, packaging and labeling will be performed only by a licensed nuclear physician user or his/her designated, trained nuclear technologist.

- Each patient dose will be assayed in our hot lab dose calibrator prior to transport. A decay chart, or decay calculations, will then be used at each facility to define any applicable corrections in actual patient dosage, at time of dose administration.

RADIATION SAFETY AND SECURITY

The radioactive material transport container will be secured in a locked car trunk, or compartment in the locked van, as far away as possible from the driver compartment. Transportation of passengers is not anticipated. The transport container will be braced or anchored to prevent shifting of the container during transport. The drivers are instructed to call the licensee's main office if any delays are encountered in service-schedule routes and to check in when they arrive at the service facility. In the event an undue delay occurs and no call-in report is made, the main office would conduct a search along the transport route. In the event an accident occurs which could involve contamination or public concern, the main office (R.S.O. or his/her delegate) would immediately report such an incident to the appropriate nuclear materials licensing and inspection authorities as designated on the "Notice to Employees" sign, required to be posted in the main office (hot lab) facility.

The Radiation Safety Program in this application is applicable to the temporary job sites as well as to the base lab.

Venti-Scan

Disposable Radioaerosol System for Ventilation Scanning*

- Complete Closed system
- Lead shield for safe administration
- Compact, lightweight, easy to use
- Simple set up and disposal
- Stand rolls on casters for easy positioning

Designed for patient comfort and operator ease, the Venti-Scan Disposable Radioaerosol Administration System provides a simple direct way to perform ventilation studies.

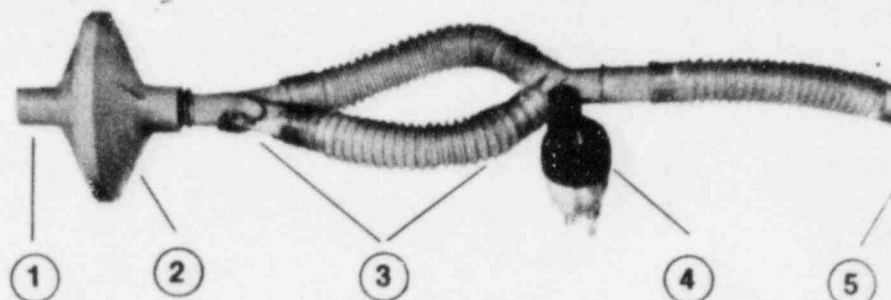
The self-contained system fits into a shielded compartment on a rolling support stand that holds the air or oxygen tank. The entire unit is easily rolled into position for the aerosol delivery. The system connects to the air/oxygen cylinder to provide direct aerosol delivery (under 1 micron in size) to the patient. Two one-way valves permit resistance-free breathing to the patient. The bacteria filter traps the exhaled air and minimizes exposure to the radioaerosol.

Ventilation Scanning studies... six views including the important oblique views... can be performed leisurely, even in another room.

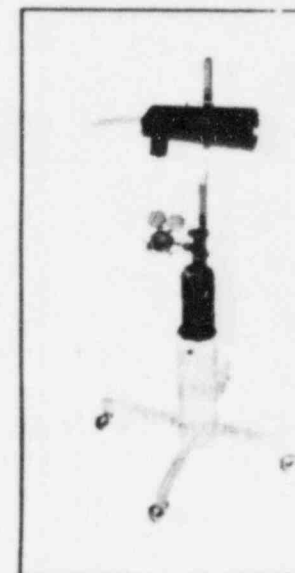
After use, the disposable system should be put aside for a 3-day decay period (10 half-lives) and subsequently disposed of in the departments radioactive waste container.

A rugged steel stand supports all of the system components. Air/oxygen cylinder sits in holder with thumb-screw pressure to eliminate shifting. A 1/8" lead steel protective capsule with hinged lid holds the disposable components at patient-delivery level... can be raised or lowered 9" for patient comfort. The entire system rolls on four swivel casters for rapid, convenient positioning.

177-066 Venti-Scan Disposable Radioaerosol, each.....	\$16.00
1-49.....	16.00
50 & up.....	15.00
177-069 Support Stand for Venti-Scan System.....	300.00



1. Disposable system sits firmly into 1/8" lead encapsulated in steel casing on rolling stand.
2. Bacteria filter traps exhaled air containing aerosol. Eliminates exposure.
3. One-way valves assure single-direction air flow.
4. Nebulizer is activated by jet of oxygen or air from tank, creates fine aerosol mist under 1 micron in size.
5. Soft, pliable mouthpiece fits snugly into patients mouth. Assures secure seal for normal tidal breathing.



* For reprints of "Improved Radioaerosol Administration System for Routine Inhalation Imaging", Michael Hayes, M.D., George V. Taplin, M.D., Sawtandra K. Chopra, M.D., E. Knox, M.D., Dennis Elam, M.S.; write to Michael Hayes, M.D., Department of Medicine, Memorial Hospital Medical Center, P.O. Box 1428, Long Beach, CA 90801