



THE
UNIVERSITY
OF
ILLINOIS
AT
CHICAGO

Office of the Dean
Graduate College
808 South Wood Street (60612)
Box 6998, Chicago, Illinois 60680
(312) 996-4995

March 11, 1985

Bruce Mallett
U. S. Nuclear Regulatory Commission
Region III
Material Licensing Section
799 Roosevelt Road
Glen Ellyn, IL 60137

RE: 12-00088-06

Dear Mr. Mallett:

We wish to amend our license to include possession and use of a Seaman Nuclear Corporation Model RM-75 Roof Moisture Meter. Details you require regarding the meter and the Radiation Safety Program are attached.

Please expedite processing of this request so that the meter may be obtained before the Spring of 1985. Direct any questions through this office.

Sincerely,

Karen M. Hiemae, Ph.D.
Interim Dean, Graduate College
Associate Vice Chancellor for
Research and Graduate Education

KMH:ecp

cc: Mr. R. C. Barrall, Director
Radiation Protection

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Gauge Description

Manufacturer: Seaman Nuclear Corporation
7315 So. First Street
Oak Creek, Wisconsin 53154
Model: RM-75 Nuclear Roof Meter

Source Description:

Am-241-Be
40 mCi (nominal)
Amersham Model AMNQ 1954

Locations of Use

The Nuclear Roof Meter (NRM) will be used at temporary job sites throughout the campus of the University of Illinois at Chicago.

Locations of Storage

The NRM will be stored in locked rooms or cabinets throughout the campus. A primary storage location will be selected and approved by the Radiation Safety Office. Temporary storage locations will be established as operationally required.

Use of Gauge

The NRM will be used to measure the moisture content of roofing and other construction materials throughout the campus.

Qualification of Personnel

All personnel operating the NRM will attend a training session held by the Radiation Safety Office. This session will cover the applicable regulations, license conditions, and operating and emergency procedures. Operation of the NRM will be performed by or directly supervised by personnel who have completed the Seaman Nuclear Corporation training class. Currently the following personnel plan to attend the class.

When completed, copies of the training certificates will be maintained by the Radiation Safety Office.

Personnel Monitoring

All operators will wear monthly whole body film or TLD badges supplied by the Radiation Safety Office.

Leak Tests

Leak tests will be performed by the Radiation Safety Office in accordance with Condition 17 of the current license.

Waste Disposal

The Radiation Safety Office will provide waste disposal service if required.

SEAMAN NUCLEAR RM-75 ROOF METER

OPERATING AND EMERGENCY PROCEDURES

GENERAL OPERATING PROCEDURES

1. Use of the Nuclear Roof Meter must be by or under the direct supervision of an individual who has completed the Seaman Nuclear training course. All operators must have completed training provided by the Radiation Safety Office.
2. All operators must wear their film badge while the meter is in use.
3. The meter must NEVER be left unattended unless properly secured in an authorized storage area.
4. A Use Log shall be maintained to record the location, date and responsible user for each use. This log is to be kept at the primary storage location.
5. If it is not possible to predict the use locations when checking the gauge out the responsible user should wear a pager and record the number in the log.
6. Operators should follow the detailed operating procedures provided by the manufacturer.
7. When not in use the meter must be kept in the storage case provided by the manufacturer.
8. Temporary storage areas may be established if necessary provided the following conditions are met.
 - a) There is no normally occupied area within 15 feet of the location.
 - b) The storage area must be lockable and provide a high degree of security.
 - c) The meter is in the storage case.
 - d) A "Caution - Radioactive Material" warning sign is posted at the entrance to the area.
 - e) Temporary storage is ended as soon as practical and the warning sign is removed.
8. A copy of this procedure must be kept with the meter at all times.

TRANSPORTING THE METER

The meter may be transported in University or personal vehicles under the following conditions.

1. The meter is transported in the storage case with a copy of this procedure.
2. The meter is not in the passenger portion of the vehicle.
3. The case must be secured against movement within the vehicle. Blocking and bracing should be employed when necessary to prevent movement while the vehicle is in motion.
4. The meter is in a locked portion of the vehicle if it will be left unattended.

The following statement is provided to comply with Department of Transportation regulations.

"This package conforms to the conditions and limitations specified in 49 CFR 173.422 for excepted radioactive material, instruments and articles."

EMERGENCY INSTRUCTIONS

1. If the source does not retract into the "OFF" position or the meter has been damaged by crushing or dropping take the following steps
 - a) Do not move the gauge. Leave it where it lies.
 - b) Secure the area. Keep everyone at least 15 feet from the meter.
 - c) Report the problem to the Radiation Safety Office at 996-7429. After normal working hours contact the University Police at 996-6777
2. Report loss or theft of the meter to the Radiation Safety Office and the University Police.

SEAMAN NUCLEAR ROOF MOISTURE METER

USE LOG

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