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MS-16

APPENDIX B

NRC FORM 313A (RSO)  
(2-2007)

U.S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)****3. Structured Educational Program for Proposed Radiation Safety Officer (continued)****b. Supervised Radiation Safety Experience (continued)***(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)*

Supervising Individual <u>Chuck Rose</u>	License/Permit Number listing supervising individual as a Radiation Safety Officer <u>CO 751-01</u>
This license authorizes the following medical uses:	
<input type="checkbox"/> 35.100	<input checked="" type="checkbox"/> 35.200
<input type="checkbox"/> 35.300	<input type="checkbox"/> 35.400
<input type="checkbox"/> 35.500	<input type="checkbox"/> 35.600 (remote afterloader)
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.1000 ( )

**c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.**TOTAL hours = 200

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	Institute of Nuclear medicine education	6/2002 3/2002
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	Institute of Nuclear medicine education	6/2002 3/2002
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses	Institute of Nuclear medicine education	6/2002 3/2002
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses	Institute of Nuclear medicine education	6/2002 3/2002
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	Institute of Nuclear medicine education	6/2002 3/2002
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses	Institute of Nuclear medicine education	6/2002 3/2002
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):	Institute of Nuclear medicine education	6/2002 3/2002

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REC'D IN LAT 8/13/08

B-3

NUREG-1556, Vol. 9, Rev. 2

142479  
NMSS/RGNI MATERIALS-002

# INME CURRICULUM<sup>®</sup> BY SUBJECT MATTER HOURS

Topic	Medical Radiation Physics	Medical Radiation Instrumentation	Medical Radiation Protection	Radiopharmaceuticals & Chemistry	Total Hours	FUNDAMENTALS of Radioisotope Handling	Extended COMPREHENSIVE <sup>(2)</sup> Radioisotope Handling	Total Hours
Rad. Phy. & Instrument.	19	36	18	27	100	50	50	100
Rad. Protect & Reg. Comply	10	2	16	2	30	15	15	30
Math of Use	6	5	4	5	20	10	10	20
Rad. Biol. & Risk	5	2	10	3	20	10	10	20
Radiopharm. & Chem.	10	5	2	13	30	15	15	30
<b>Total</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>200</b>	<b>100<sup>(1)</sup></b>	<b>100<sup>(2)</sup></b>	<b>200</b>

<sup>(1)</sup>Prerequisite for Extended Comprehensive Radioisotope Handling.  
Exceeds the minimum 80 hours that may be required by some agencies.

<sup>(2)</sup>When combined with the prerequisite of FUNDAMENTALS, this BRIH program, Extended COMPREHENSIVE Radioisotope Handling, meets the requirements of all regulatory agencies, currently and in the future.

**INME • 5660 Airport Blvd., Suite 101 • Boulder, Colorado 80301**  
**(800) 548-4024 • (303) 541-0044 • Fax (303) 541-0066 • inme.org • ncs@nuclearcardiology.com**

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**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)****3. Structured Educational Program for Proposed Radiation Safety Officer (continued)**

- c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

Supervising Individual If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)

Chuck Rose

License/Permit Number listing supervising individual

CO 751-01

License/Permit lists supervising individual as:

- ☒ Radiation Safety Officer ☐ Authorized User ☐ Authorized Nuclear Pharmacist  
☐ Authorized Medical Physicist

Authorized as RSO, AU, ANP, or AMP for the following medical uses:

- ☐ 35.100 ☒ 35.200 ☐ 35.300 ☐ 35.400  
☐ 35.500 ☐ 35.600 (remote afterloader) ☐ 35.600 (teletherapy)  
☐ 35.600 (gamma stereotactic radiosurgery) ☐ 35.1000 ( )

- d. Skip to and complete Part II Preceptor Attestation.

OR

☐ **4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license**

- a. Provide license number.  
 b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.  
 c. Skip to and complete Part II Preceptor Attestation.

**PART II - PRECEPTOR ATTESTATION**

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

**First Section**

Check one of the following:

☒ **1. Board Certification**

☒ I attest that Dr. Thomas KNOX has satisfactorily completed the requirements in

Name of Proposed Radiation Safety Officer

10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

OR

☐ **2. Structured Educational Program for Proposed Radiation Safety Officers**

☐ I attest that \_\_\_\_\_ has satisfactorily completed a structural educational

Name of Proposed Radiation Safety Officer

program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

OR

## RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

**Preceptor Attestation** (continued)**First Section** (continued)

Check one of the following:

☒ **3. Additional Authorization as Radiation Safety Officer**☒ I attest that Dr. Thomas KNOX is an  
Name of Proposed Radiation Safety Officer☒ Authorized User☐ Authorized Nuclear Pharmacist☐ Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

AND

**Second Section**

Complete for all (check all that apply):

☒ I attest that Dr. Thomas KNOX has training in the radiation safety, regulatory issues, and  
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

☐ 35.100☒ 35.200☐ 35.300

oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required

☐ 35.300

oral administration of greater than 33 millicuries of sodium iodide I-131

☐ 35.300

parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required

☐ 35.300

parenteral administration of any other radionuclide for which a written directive is required

☐ 35.400☐ 35.500☐ 35.600

remote afterloader units

☐ 35.600

teletherapy units

☐ 35.600

gamma stereotactic radiosurgery units

☐ 35.1000

emerging technologies, including:

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(2-2007)

U.S. NUCLEAR REGULATORY COMMISSION

## RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

AND

Third Section  
Complete for ALL

☒ I attest that Thomas Knox has achieved a level of radiation safety knowledge  
Name of Proposed Radiation Safety Officer  
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section  
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for NC Systems INC.  
Name of Facility  
License/Permit Number: CO 751-01

Name of Preceptor <u>CHUCK ROSE</u>	Signature <u>Chuck Rose</u>	Telephone Number <u>800-548-4024</u>	Date <u>8/11/08</u>
--	--------------------------------	---	------------------------



# INME Institute for Nuclear Medical Education

Approved and Regulated by The Division of Private Occupational Schools, Department of Higher Education in Colorado

Licensed  
Celo #761-01  
NRC23-28041-01

Validated  
US Dept Education  
Am Council Education  
ACCET  
NUSPEX-SPS/AHA

Accepted  
USNAC  
35.52  
35.92  
AEC  
2740 AEC73  
Agreement States  
Bo Medical Exam  
AmAssoc Collegiate Reg

Credits Provided  
University  
College  
NRC  
State  
NMTCB  
CEU/ACET  
RSD

Listed  
NRC STIS  
CVC-SNM  
ACE  
AACHC

To Whom It May Concern:

This is to certify that Thomas I. Knox, MD has successfully completed the Basics of Radioisotope Handling (BRH) program provided by the Institute for Nuclear Medical Education. Successful completion included fifty hours (50) of classroom instruction in each of the following four (4) courses, for a total of 200 hours.

1. Radiation Physics

2. Radiation Instrumentation

These classes (I & II) commenced on June 8, 2002 and extended for a combined 100 hours.

3. Medical Radiation Protection

4. Radiopharmaceutical Chemistry

These classes (III & IV) commenced on March 2, 2002 and extended for a combined 100 hours.

The distribution of the course content is available and the distribution of hours, by content, is described on the attached SUBSTITUTE NRC 313M SUPPLEMENT A form.

A review of class attendance records show that all course sessions were attended and all requirements for completion were met. In addition, the final written, closed book examinations for each course were taken and completed with a satisfactory passing scores. This individual thus meets or exceeds the requirements for the Basic of Radioisotope Handling established by 10 CFR 35 and Agreement States.

If you desire additional information or for further clarification, please do not hesitate to call or write.

Sincerely,

Charles H. Rose, MA, MSPH, D(ABSNM)

Program Director

INME - Institute for Nuclear Medical Education • 5660 Airport Boulevard, Suite 101 • Boulder, Colorado 80301  
(800) 548-4024 • (303) 541-0044 • FAX (303) 541-0066 • inme@nuclearcardiology.com • www.nuclearcardiology.com

Printed: 11/11/2008 13:05



# Baystate Medical Center

A Member of MassHealth System  
Springfield, Massachusetts 01194  
413-794-0000

May 24, 2002

To Whom It May Concern,

**Department of Radiology**

J. Robert Kinwood, M.D.  
Chairman  
(413) 794-6644

Thomas H. Parker, M.D.  
Vice Chairman  
Residency Program Director  
(413) 794-6333

CT/MRI/Special Procedures  
Richard J. Hicks, M.D.  
Chief  
(413) 794-4851

General Diagnosis  
James P. Pope, M.D.  
Chief  
(413) 794-3333

Medical Physics  
Susan M. Brahmayar, Ph.D.  
Chief  
(413) 794-6406

Nuclear Medicine  
Robert H. Dann, M.D.  
Chief  
(413) 794-4880

Radiation Oncology  
Brian D. Adair, M.D.  
Chief  
(413) 794-5437

Ultrasound  
Frederick E. Hampf, M.D.  
Chief  
(413) 794-4840

Dr. Thomas Knox is a Cardiac Fellow at Baystate Medical Center in Springfield, Massachusetts. During his three years of Fellowship at Baystate Medical Center he has attended approximately 90 hours of conferences correlating myocardial perfusion studies with cardiac catheterization studies and clinical history. These involve review of approximately 250 patients in whom clinical, nuclear myocardial perfusion, and cardiac catheterization data were correlated and discussed. During his time here Dr. Knox has attended approximately 35 didactic lectures on nuclear cardiology including performance and pitfalls in gated cardiac blood pool imaging, myocardial perfusion imaging including exercise and pharmacological stress imaging. Myocardial viability with both thallium and technetium tracers has been discussed along with the theoretical basis of metabolic imaging with FDG for myocardial viability. In addition, gated myocardial perfusion studies (done routinely here) have been discussed both practically and theoretically.

In addition to the above, Dr. Knox has spent as many hours as possible during his elective month in Cardiology working with me reviewing myocardial perfusion and MUGA blood pool studies. During that time we have reviewed together approximately 200 myocardial perfusion studies with clinical data over and above the 250 cases discussed at Nuclear Cardiology-Catheterization Correlation Conferences.

Dr. Knox also has spent approximately 100 hours in a didactic course for radiopharmaceuticals in chemistry including 50 hours on a course on Medical Radiation Protection. He will be taking an additional 100 hours in a course on Medical Instrumentation and Radiation Physics from June 8-16 of this year. The total number of hours Dr. Knox has spent in this fashion I would estimate to be 340 hours. Dr. Knox has met the minimum total of 300 cases interpreted under preceptor supervision including the cases reviewed during Nuclear Cardiology-Catheterization Correlation Conferences.

Over and above the above time Dr. Knox has spent over 500 hours in clinical cardiology including patient selection and preparation for stress testing (both nuclear and non-nuclear) and in conducting stress both exercise and pharmacological stress test.

On the basis of the above time commitment, Dr. Knox has made an effort to obtain as much experience in Nuclear Cardiology as possible, within the constraints of the Cardiac Fellowship program here.

Sincerely,

Robert Dann, M.D.  
Chief, Nuclear Medicine

The Western Campus of Tufts University School of Medicine

# NUCLEAR MEDICAL EDUCATION PROGRAM

## Affidavit of Academic Completion & Competency

*This document is to attest that*

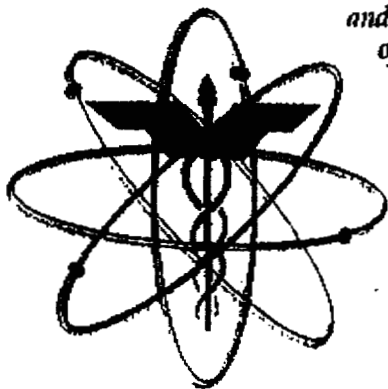
**Thomas J. Knox, MD**

*has successfully completed the didactic program*

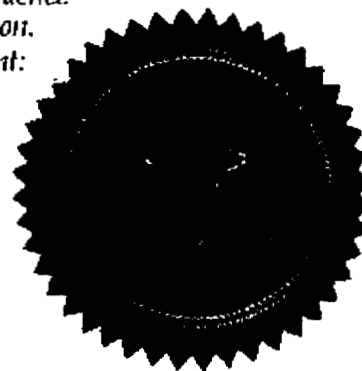
## PRINCIPLES OF RADIATION PHYSICS

*and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.*

*This program provides the following levels of accomplishment:*



- 5.0 Continuing Education Units (CEU)
- 50 Didactic Instructional Hours (DIH)  
In compliance with 10CFR35/AEA 73-689
- 50 Board Accepted Hours NUSPEX, NMTCB III b,  
ABMRSO, CBNC, MRLB
- 3.0 Semester Hours American Council on  
Education (ACE), American Association for  
Collegiate Registrars



**Charles H. Rode**  
Certifying Official

**12 June 2002**  
Date Completed

**200244**  
Certification

## Institute for Nuclear Medical Education

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INME1139-Class 1-Comp&Camp 1400



# NUCLEAR MEDICAL EDUCATION PROGRAM

## Affidavit of Academic Completion & Competency

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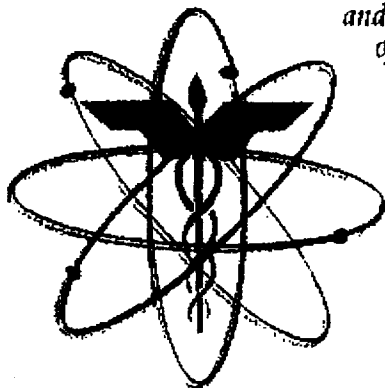
**Thomas I. Knox, MD**

*has successfully completed the didactic program*

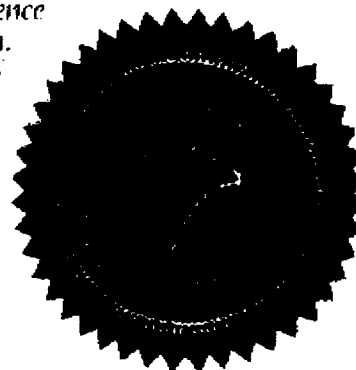
## MEDICAL RADIATION INSTRUMENTATION

*and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.*

*This program provides the following levels of accomplishment:*



- 5.0 Continuing Education Units (CEU)
- 50 Didactic Instructional Hours (DIH)  
In compliance with 10CFR35/AEA 73-689
- 50 Board Accepted Hours NUSPEX, NMTCB III b,  
ABMRSO, CBNC, MRLB
- 3.0 Semester Hours American Council on  
Education (ACE), American Association for  
Collegiate Registrars



Charles H. Brown  
Certifying Official

16 June 2002

Date Completed

200311

Certification

## Institute for Nuclear Medical Education

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INME1132-Class II-Comp & Comp 1/00

# NUCLEAR MEDICAL EDUCATION PROGRAM

## Affidavit of Academic Completion & Competency

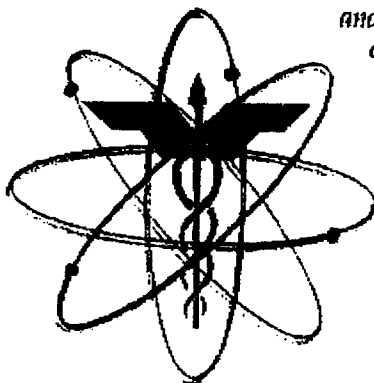
*This document is to attest that*

*Thomas I. Knox, MD*

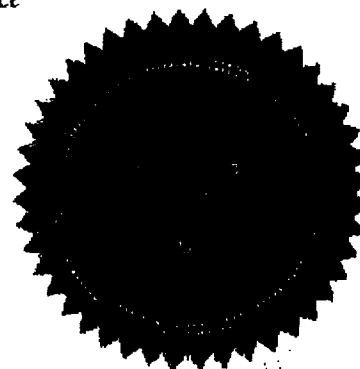
*has successfully completed the didactic program*

## MEDICAL RADIATION PROTECTION

*and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.  
This program provides the following levels of accomplishment:*



- 5.0 Continuing Education Units (CEU)
- 50 Didactic Instructional Hours (DIH)  
In compliance with 10CFR35/AEA 73-689
- 50 Board Accepted Hours NUSPEX, NMTCB III b,  
ABMRSO, CBNC, MRLB
- 3.0 Semester Hours American Council on  
Education (ACE), American Association for  
Collegiate Registrars



*Charles H. Rose*  
Certifying Official

6 March 2002  
Date Completed

200042  
Certification

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INME1132-Class III-Comp15-Comp 100

# NUCLEAR MEDICAL EDUCATION PROGRAM

## Affidavit of Academic Completion & Competency

*This document is to attest that*

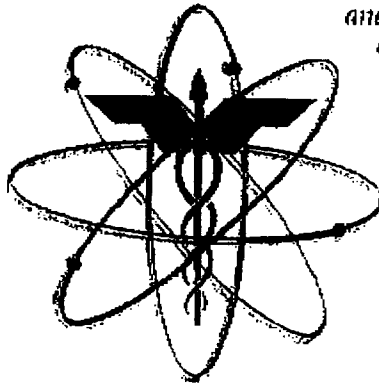
Thomas L. Knox, MD

*has successfully completed the didactic program*

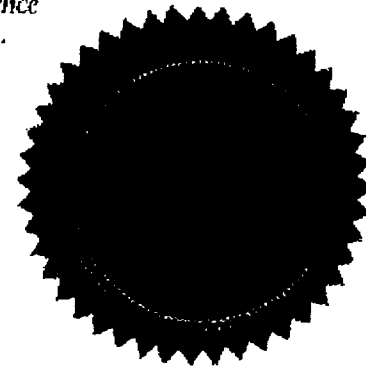
## RADIOPHARMACEUTICALS AND CHEMISTRY

*and has provided evidence of attendance in this program and evidence of achieving the objectives of this program through examination.*

*This program provides the following levels of accomplishment:*



- 5.0 Continuing Education Units (CEU)
- 50 Didactic Instructional Hours (DIH)  
In compliance with 10CFR35/AEA 73-689
- 50 Board Accepted Hours NUSPEX, NMTCB III b,  
ABMRSO, CBNC, MRLB
- 3.0 Semester Hours American Council on  
Education (ACE), American Association for  
Collegiate Registrars



Charles H. Rose  
Certifying Official

10 March 2002  
Date Completed

200128  
Certification

## Institute for Nuclear Medical Education

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INME1132-Class IV-Comp&Comp 100