

OCT 17 1996

Donald A. Flater, Chief  
Bureau of Radiological Health  
Iowa Department of Public Health  
Lucas State Office Building  
Des Moines, IA 50319

Dear Mr. Flater:

This is in response to your letter of June 4, 1996, inviting comment on a draft radiation safety training plan for individuals not having an extensive background in radiation safety. Since June, Jim Myers has been in contact with Dan McGhee of your office to discuss various aspects of the draft training plan.

Assuming that the physicians are not "regular" radiation workers, the draft training plan covers items that are considered essential for the safe use of diagnostic radioactive material on an occasional basis. This practice would appear to create a new group of radiation workers and a new training requirement for the group. This should not present a problem. The analogy which applies here is the use of Xe-133 for certain brain studies. These studies were performed safely and routinely by physicians with minimal radiation training at various locations in medical facilities. Although Xe-133 brain scanning has now been replaced by accelerator produced isotopes and new pharmaceuticals used in positron emission tomography (PET) or single photon emission computed tomography (SPECT), the principle of requiring less training for certain specialized diagnostic nuclear medicine studies is well established.

Please note, NRC would request its Advisory Committee on the Medical Uses of Isotopes (ACMUI) to review a similar training plan. If Iowa has an equivalent committee, you may want to afford them the opportunity to comment on the plan.

Thank you for the opportunity to comment on the draft training requirements. If you have any questions regarding this correspondence please call me or Jim Myers at (301) 415-2328 or E-mail at JHM@NRC.GOV.

Sincerely,

Original Signed By  
RICHARD L. BANGART  
Richard L. Bangart, Director  
Office of State Programs

Distribution:

DIR RF (6S-158)

RLBangart

PLohaus

SDroggitis

JMyers

DCool

Iowa File 080051

DCD (SP07)

PDR (YES\_X\_\_ NO\_\_)

\*See previous concurrence.

DOCUMENT NAME: G:\JHM\FLATER3.JHM

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OFFICE	OSP	OSP:DD	IMNS:D	OSP:D
NAME	JMyers:maj	PHLohaus	DCool	RLBangart
DATE	10/01/96*	10/03/96*	10/09/96*	10/17/96

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PDR STPRG ESGIA  
PDR

OSP FILE CODE: 64-AG-9

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 17, 1996

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Iowa Department of Public Health  
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Sincerely,

*Richard L. Bangart*  
Richard L. Bangart, Director  
Office of State Programs

Donald A. Flater, Chief  
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Iowa Department of Public Health  
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Office of State Programs

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Iowa File

DCD (SP07)  
PDR (YES X NO   )

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OFFICE	OSP <input checked="" type="checkbox"/>	OSP:BD <input checked="" type="checkbox"/>	IMNS:D <input type="checkbox"/>	OSP:D <input type="checkbox"/>	
NAME	JMyers:kk <input checked="" type="checkbox"/>	PHLohaus <input checked="" type="checkbox"/>	DCool <input type="checkbox"/>	RLBangart <input type="checkbox"/>	
DATE	10/1/96	10/2/96	10/ /96	10/ /96	

OSP FILE CODE: SP-AG-9

OSP  
Rec'd 10/15/96

I MAB

ROUTING AND TRANSMITTAL SLIP

DATE: OCTOBER 4, 1996

CONCURRENCE REQUESTED

D. COOL, DIR., IMNS

IMNS Concurs with Comments  
See markup. Discussed w/  
Dick Bangart.

LETTER TO: DONALD A. FLATER

FROM: RICHARD L. BANGART

SUBJECT: DRAFT RADIATION SAFETY TRAINING PLAN FOR INDIVIDUALS NOT  
HAVING AN EXTENSIVE BACKGROUND IN RADIATION SAFETY

YOUR CONCURRENCE IS REQUESTED BY C.O.B. OCTOBER 11, 1996.

OSP CONTACT: JIM MYERS (415-2328)

Don you may Concur however, I would recommend that a sentence  
or two be added to the letter which informs those that are  
would take such a matter to our Alameda and they may  
want to do the same etc. ARK

PLEASE CALL KATHALEEN KERR (415-3340) FOR PICK UP.

Concur as modified  
JK



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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Sincerely,

Richard L. Bangart, Director  
Office of State Programs

Please note, that NRC would <sup>request</sup> review such a plan with its Advisory Committee on the Medical Uses of Isotopes. If <sup>Iowa</sup> ~~you~~ <sup>has</sup> an equivalent Committee, you may want to afford them the opportunity to comment on the plan.

Fix this!

to review ~~such~~  
a similar training  
plan.



# EXECUTIVE TASK MANAGEMENT SYSTEM

<<< PRINT SCREEN UPDATE FORM >>>

TASK # - 6S158

DATE- 06/11/96

MAIL CTRL. - 1996

TASK STARTED - 06/11/96

TASK DUE - / /

TASK COMPLETED - /

TASK DESCRIPTION - 6/5/96 LTR RE STANDARIZED PROGRAM OF TRAINING - EMERG.

ROOM - ACUTE NUCLEAR MEDICINE PROCEDURES

REQUESTING OFF. - IOWAD.

REQUESTER - FLATER

WITS -

0 FYP - N

PROG. -

PERSON -

STAFF LEAD -

PROG. AREA -

PROJECT STATUS -

OSP DUE DATE:

PLANNED ACC. - N

LEVEL CODE - 1

Paul -  
Please have  
someone on our staff  
contact NMSS to  
determine what  
guidance

WRC is  
using  
training  
for such  
users.

① Held till end of July 96 per McGhee

② Checked with Don McGhee 1/3/96  
Still on hold on this  
issue.

③ 9/20/96 - Don McGhee -

Assigned to: JHM

Due Date: \_\_\_\_\_

RJR  
06/17/96

DCD(SPO7)



TERRY E. BRANSTAD, GOVERNOR  
June 4, 1996

DEPARTMENT OF PUBLIC HEALTH  
CHRISTOPHER G. ATCHISON, DIRECTOR

Richard L. Bangart, Director  
Nuclear Regulatory Commission  
Office of State Programs  
One White Flint North,  
11555 Rockville Pike, 3<sup>rd</sup> Floor  
Rockville, Maryland 20852

Dear Mr. Bangart:

We have received several requests within the past few months for the use of cardiac radiopharmaceuticals injected in emergency rooms for diagnosis of acute chest pain. The injections will be routinely performed by individuals that traditionally do not have an extensive background in radiation safety. Because this is a procedure that is being implemented nationally, and because we anticipate several more requests in the future, we feel that we need to devise a standardized program of training.

Enclosed, you will find a draft of a basic radiation safety training program. We invite your input. Your written comments will be greatly appreciated.

If you have questions concerning this matter, do not hesitate to call Dan McGhee at (515)281-7007 or me.

Sincerely,

Donald A. Flater, Chief  
Bureau of Radiological Health  
(515) 281-3478

mif/DAF

enclosure

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96 JUN 11 PM 1:30  
OSP

SP-AE-9

**Iowa Department of Public Health  
Training Program for Emergency Room  
Workers Participating in Acute Nuclear Medicine Procedures**

Individuals shall be trained initially upon assuming duties and annually thereafter

**I. Fundamentals of Radiation Safety**

- A. Characteristics of Radiation
- B. Units of Radiation Dose and Quantity of Radioactivity
- C. Significance of Radiation Dose
  - 1. Radiation Protection Standards
  - 2. Biological Effects of Radiation
- D. Levels of Radiation from sources of Radiation
- E. Methods of Controlling Radiation Dose (ALARA)
  - 1. Working Time
  - 2. Working Distance
  - 3. Shielding

**II. Pertinent State Regulations**

**III. License Requirments**

**IV. Written Operating and Emergency Procedures**

**V. Radiation Survey Instrumentation to be Used**

- A. Use of Radiation Survey Instruments
  - 1. Operation
  - 2. Calibration
  - 3. Limitations
- B. Survey Techniques  
Hands on Training
- C. Use of Personnel Monitoring Equipment

**VI. On The Job Training in a Nuclear Medicine Department**

Participate in at least three procedures that are identical to the procedure that the individual will participate in the emergency room.