



MAC NEAL MEMORIAL HOSPITAL

3249 S. Oak Park Avenue • Berwyn, Illinois 60402 • A/C 312-795-9100

Department of Nuclear Medicine  
Sharad P. Mehta, M. D.  
Medical Director

11 April 1979

John W. Cooper, Ph.D., Chief  
Regional Licensing Section  
License Management Branch  
Division of Fuel Cycle and  
Material Safety

Ref: <sup>01540</sup> Control No 01450

Dear Doctor Cooper:

We are in receipt of your letter dated April 9, 1979,  
and we submit the enclosed information in response  
to your request.

1. Procedures for ordering and  
receiving radioactive material.
2. Membership of our Medical Isotope Committee  
to include a member of the hospital  
administration staff and a physician  
specializing in internal medicine.
3. Description of our waste disposal  
methods.

APR 16 1979

Your cooperation is appreciated and should you require  
additional information, please do not hesitate to contact  
me.

Very truly yours,

Robert P. Barry, Director  
Diagnostic & Therapeutic Division

BPB/rjm  
Encl. 3

8507120643 850614  
REG3 LIC30  
12-09155-01 PDR

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Robert Barry (Director, Diagnostic & Therapeutic Division)  
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Hugo DelRosso, D.D.S.  
Robert Novak, M.D.  
R. David Schreiber, M.D.

APR 16 1979

01540



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### UNPACKAGING AND LOGGING RADIONUCLIDE SHIPMENTS

All radioactive packages are received and stored in the Department of Nuclear Medicine Laboratory. The laboratory is equipped with lead storage containers, portable lead bricks for shielding, handling tongs, sinks, trays and waste containers.

All isotopes are procured by the Director of Nuclear Medicine.

Radioactive materials are stored in a locked isolated room, and only persons authorized by the Medical Isotope Committee has access to this area.

Packages should be opened and inspected immediately upon receipt.

Disposable gloves should be worn while processing the packages and remote handling devices should be used when possible.

#### PROCEDURE

1. Measure the exposure rate at the package surface with a portable ionization chamber. Record exposure rate (mR/hr). If the exposure rate at the surface of the package is greater than 200 mrem/hr. or if the exposure rate at 3 feet is greater than 10 mrem/hr. immediately notify the final carrier and the regional N.R.C.
2. Open outer package and remove packing slip. Open inner package and verify that the contents agree in name and activity with the packing slip.
3. Check for possible breakage of seals or containers, loss of liquid, or change in color of liquid absorbing material.
4. If the shipment appears intact, remove the radioactive material from the outer package and place behind lead shielding.
5. Monitor (G.M. Survey Meter) the package's surface and inner contents for radioactive contamination. Document any pertinent findings on the packing slip.
6. Record the date shipment is received, radionuclide, chemical form, activity, supplier, and disposition.



7. Store radioactive material at designated location. Record radiopharmaceuticals used in the proper log book on appropriate form.
8. Submit packing slips and package inserts to the Radiation Protection Officer. Immediately notify the Radiation Protection Officer of damage or breakage in the shipping container or of any discrepancies.

NOTE:

Contaminated containers, liners, shields, etc. should be discarded in the "hot" waste containers. Uncontaminated items may be discarded in the regular waste containers after removing or defacing any labels indicating the presence of radioactive material.

Shipments of Na 131 I should be processed under a hood.



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### WASTE DISPOSAL

All contaminated material, used syringes, containers, etc. are placed in plastic bags and sealed. The bags are placed in a large metal drum in an isolated and locked room. The waste material is periodically surveyed and labeled and then removed by a Commercial Company, Radiation Protection Consultants. The waste material is given to Nuclear Engineering Company for burial.

A record is maintained of the amount of activity and type of radionuclides removed by the Company. (see attached)



**NUCLEAR ENGINEERING COMPANY, INC.**  
P.O. Box 7246 • Louisville, Kentucky 40207  
(502) 426-7160

☐ P.O. Box 579  
Beatty, Nevada 89303  
San Ramon (415) 837-1561

P.O. Box 158  
Sheffield, Illinois 61361  
(815) 454-2624

☐ P.O. Box 638  
Richland, Washington 99352  
San Ramon (415) 837-1561

## RADIOACTIVE SHIPMENT AND DISPOSAL RECORD

No. 52157

Western Operations Headquarters  
P.O. Box 156  
San Ramon, California 94583  
(415) 837-1561

Please complete this form for each shipment and distribute as marked.

CUSTOMER M.H. No. 46 M. H. No. 46 Wash.  
ADDRESS 341 S. Oak Park Ave. Berwyn  
MATERIAL DESCRIPTION Pipe + Wares

DATE Dec 1978 Page 1 of 1 Pages  
CARRIER Truck  
CONTAINER DESCRIPTION 1 cab DOT Bureau

[illegible]

This is to certify that the above named articles are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. It is also certified that the articles are in compliance with all regulations applicable at the designated disposal site.

CUSTOMER COPY

Dec 19-1975

Authorized Signature

Health Physicist  
Title



NUCLEAR ENGINEERING COMPANY, INC.  
P.O. Box 7246 • Louisville, Kentucky 40207  
(502) 426-7160

*Don*  
*#10*

☐ P.O. Box 146  
Morehead, Kentucky 40351  
(606) 784-6611

☐ Western Operations Headquarters  
P.O. Box 156  
San Ramon, California 94583  
(415) 837-1561

☐ P.O. Box 578  
Beatty, Nevada 89003  
(702) 553-2203

☒ P.O. Box 158  
Sheffield, Illinois 61361  
(815) 454-2624

☐ P.O. Box 638  
Richland, Washington 99352  
(509) 377-2411

MATERIALS TRANSFER FORM

CUSTOMER:

*Mac Neal Mem Hospital*  
*3249 S. Oak Park*  
*Berwyn, Illinois*  
*(Rad. Prot. Cons)*

1142

PICKED UP

QUAN.	CONTAINER	SOLID	LIQUID	REMARKS

DELIVERED

QUAN.	CONTAINER	SOLID	LIQUID	REMARKS
<i>1</i>	<i>- 30 for solids</i>			
	<i>Durham</i>			
	<i>Nov-12-15-78</i>			

OTHER DATA

Date

*Dec 15*

Received by

*Ron Edwards*

CUSTOMER