



NUCLEAR DIAGNOSTICS, INC.

SPECIALISTS IN NUCLEAR MEDICINE PROCEDURES

29W281 CALUMET
WARRENVILLE, ILLINOIS 60555
(312) 393-2889

Reference: NDI License App.
Control #77914

March 25, 1985

Dr. Bruce Mallet, Ph.D.
Chief, Licensing Section
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Doctor Mallet:

We submit the following information in response to your request at our meeting March 23, 1985:

1. Enclosed please find the experience information for utilization of radiopharmaceuticals for Charles G. Burchett.
2. At least annually the RSO will review the records and facilities of each client whose name appears on our license. Any more frequent reviews will be on an "as needed" basis, such as emergencies, etc. Nuclear Diagnostics, Inc. staff technologist will review records on a periodic basis.
3. See enclosed for RSO duties.
4. Each NDI staff technologist will be responsible for ordering needed radiopharmaceuticals, who will check inventory before ordering to see that possession limits for materials will not be exceeded.
5. As previously mentioned, NDI is administratively separate from Cole Hospital. NDI will perform its own housekeeping duties in the Receipt and Storage areas. Cole Hospital personnel will not perform any of these housekeeping duties.

Cole Hospital will not have any administrative responsibilities for the NDI program. No liquid waste will be disposed of in any of the Cole Hospital drains.

RECEIVED

MAR 25 1985

REGION III

8506110017 850508
REQ3 LIC30
12-24416-01 PDR



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We feel that this facility, Cole Hospital, would be the best location for the "hot lab" storage area as it has been utilized for this purpose previously. Alternative locations would offer less security and possibly present more public apprehension.

Thank you for your cooperation in this matter. Should you have any questions or require any additional information, please contact me at your convenience.

Very truly yours,

NUCLEAR DIAGNOSTICS, INC.

Charles G. Burchett

CGB:cjb
Encls.

EXPERIENCE UTILIZATION OF RADIOPHARMACEUTICALS.

Name: Charles G. Burchett

<u>Radiopharmaceuticals Utilized</u>	<u>Levels Utilized</u>
Mo ⁹⁹	1 - 2 Ci
Tc ^{99m}	400 - 800 mci
Tc ^{99m} Sulfur Colloid	2 - 10 mci/dose
" MAA	" "
" HAM	" "
" DTPA	10 - 20 mci/dose
" MDP	" "
" Pertechnetate	1 - 20 mci/dose
I ¹³¹ (Scanning)	10 - 400 uci
I ¹³¹ (Therapy)	1 - 100 mci
I ¹³¹ (Hippuran)	100 - 400 uci
I ¹²³	100 - 400 uci
Ga ⁶⁷ Citrate	1 - 10 mci/dose
Xe ¹³³	10 - 20 mci/dose
Tl ²⁰¹	1 - 3 mci/dose
I ¹²⁵	RIA Procedures
Cr ⁵¹	100 - 200 uci
In ¹¹¹ DTPA	500 uci - 15 mci

"APPENDIX P" - A Guide for the Preparation of
Applications for Medical Programs.

Guide 4.805, Revision 2, January, 1981, Illinois
Department of Nuclear Safety.

Radiation Safety Officer.

Radiation Safety Officer shall be designated for every installation to assume the responsibilities outlined below: to advise on the establishment of safe working conditions, and to assure that the installation is in compliance with all pertinent Federal, state and local Regulations. The Officer should be familiar with the basic principles of radiation protection in order to properly discharge his responsibilities, although for details he may consult with appropriate qualified expertise for advice.

Among the specific responsibilities of the Radiation Safety Officer or his deputy are the following:

A. To establish and supervise operating procedures and to review them periodically to assure their conformity with the recommendations of this report.

B. To instruct personnel in proper radiation protection practices.

C. To conduct or have conducted radiation surveys and source leak tests where indicated and to keep records of such surveys and tests, including summaries of corrective measures recommended and/or instituted.

D. To assure that personnel monitoring devices are used where indicated and that records are kept of the results of such monitoring.

E. To investigate each known or suspected case of excessive or abnormal exposure to determine the cause and to take steps to prevent its recurrence (Form NCRP Report #33, Chapter 7).

CONVERSATION RECORD

GPO : 1981 O - 361-526 (7227)

50271-101

SIGNATURE	TITLE	DATE
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ACTION TAKEN	
NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE
DATE	3/23/85

5. Clearly indicated representative at base station for ordering receipt.
6. May not be able to authorize on hospital even with message to that time
7. from hospital
8. a. Clearly within not dumping waste down hospital's exterior
b. You will have to keep separate
9. a. Need duties and responsibilities for routine program
b. Facilities
10. a. Need "hand" on "experience" of Mr. Bushell with type of materials to be used
11. a. Do you want to add Dr. David as user since he/she is qualified
b. OK to add George Ake (hospital) and Dr. Asokan as user
12. b. Bushell stated there are still a few items needed in order to complete review:

SUMMARY	
SUBJECT	
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	
LOCATION OF VISIT/CONFERENCE	
TYPE	
ROUTING	

DATE	TIME	CONVERSATION RECORD
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