

## MATERIALS LICENSE

Amendment No. 41

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

93562

Licensee		In accordance with letter dated June 4, 1992	
1. Northern Medical Imaging, Inc.		3. License number 22-16328-01 is amended in its entirety to read as follows:	
2. P. O. Box 1010 Bemidji, MN 56601		4. Expiration date	July 31, 1996
		5. Docket or Reference No.	030-10809
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Any byproduct material identified in 10 CFR 35.100	A. Any radiopharmaceutical identified in 10 CFR 35.100	A. As needed	
B. Any byproduct material identified in 10 CFR 35.200	B. Any radiopharmaceutical identified in 10 CFR 35.200 (excluding xenon-133)	B. As needed	
C. Any byproduct material identified in 10 CFR 35.500	C. Sealed sources identified in 10 CFR 35.500	C. As needed	
9. Authorized Use:			
A. Medical use described in 10 CFR 35.100.			
B. Medical use described in 10 CFR 35.200 (excluding xenon-133).			
C. Medical use described in 10 CFR 35.500 in devices which have been evaluated and approved for licensing purposes by the U.S. Nuclear Regulatory Commission or an Agreement State.			

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License number 22-16328-01

Docket or Reference number 030-10809

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CONDITIONS

10. Locations of Use:

- A. Licensed material shall be received, stored and used at the licensee's facility at 101 Park Avenue, S.W., Bemidji, Minnesota.
- B. Licensed material (excluding generators) may be used at temporary job sites of medical care facilities anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

11. Radiation Safety Officer: Dennis Clemenson, R.T.

12. Authorized Users:

- A. Claudio Sabal, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- B. Frank L. Lesko, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- C. James C. Jenson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- D. James D. Roelofs, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- E. Charles Benson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- F. Dennis Nesbit, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- G. James A. Kunz, MD., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- H. Karl Anton Lustig, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- I. Robert G. Carter, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- J. Ray H. Wyngarden, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- K. Leslie Soine, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

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12. Authorized Users: (Continued)

- L. William F. McCullough, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- M. Robert J. Oldson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- N. Richard Johnson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- O. D. J. Trzpuć, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- P. Burl C. Stephens, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- Q. Jim Matter, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- R. Scott Swenson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- S. Bruce Erdahl, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- T. Bill Johnson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- U. Elise Neeld, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- V. Richard H. Stone, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- W. Lynn R. Dale, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- X. Donald Mueller, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- Y. James W. Batzell, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- Z. James Nakamura, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- AA. James R. Shuft, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

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12. Authorized Users: (Continued)

- BB. Thomas L. H. Tam, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- CC. Earl W. Dagg, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- DD. Donald Douglas, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- EE. Richard Blank, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- FF. James G. Schroeder, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- GG. Norbert J. O'Keefe, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- HH. Richard H. Stone, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- II. H. D. Knudson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- JJ. Earl Bender, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- KK. Donald Robert Harris, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- LL. John Kasper, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- MM. William Wosick, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- NN. Mark Schneider, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- OO. Kathleen Gosens, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- PP. Mark Droyscher, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

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12. Authorized Users: (Continued)

- QQ. Steven Haugen, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- RR. Mary Nett, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- SS. Timothy Blackwelders, M.D., for material in 10 CFR 35.100, 35.200 (excluding generators and xenon-133) and 35.500.
- TT. L. R. Littleton, Jr., M.D., for material in 10 CFR 35.100, 35.200 (excluding generators and xenon-133) and 35.500.
- UU. Leon Nikolai, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133).
- VV. Stephen Towle, M.D., for material in 10 CFR 35.100 and 35.200 (excluding (xenon-133 and aerosols)).
- WW. Calvin Loken, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133 and aerosols).
- XX. Fred Ekberg, M.D., for materials in 10 CFR 35.100 and 35.200 (excluding xenon-133 and aerosols).
- YY. Christian Peterson, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133 and aerosols).
- ZZ. Donald Douglas, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133 and aerosols).
- AAA. John Lacika, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133).
- BBB. Phillip Vanderstoep, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133).
- CCC. Ralph Fedor, M.D., for material in 10 CFR 35.100 and 35.200 (excluding xenon-133).
- DDD. Dean K. Rigby, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.
- EEE. Daniel S. Vechell, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

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12. Authorized Users: (Continued)

FFF. John M. Benson, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

GGG. William J. Boardman, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

HHH. Stefan D. Laxdal, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

III. Joseph M. Meland, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

JJJ. Robert A. Pollock, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

KKK. Subbarao Inampudi, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

LLL. Tore Detlie, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

MMM. Nanda Yueh, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

NNN. Robert E. Polcyn, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

OOO. Emory Thomas Gonzales, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

PPP. Dean M. Hountras, M.D., for material in 10 CFR 35.100, 35.200 (excluding xenon-133) and 35.500.

13. Pursuant to Title 10, Chapter 1, Code of Federal Regulations, Part 40, "Domestic Licensing of Source Material," the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of depleted uranium contained as shielding material in the molybdenum-99/technetium-99m generators authorized by this license.
14. The licensee shall maintain records of information important to safe and effective decommissioning at 101 Park Avenue S.W., Bemidji, Minnesota per the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
15. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

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16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. This license is based on the licensee's statements and representations listed below:
- A. Application dated June 27, 1991; and
  - B. Letters dated October 16, 1991, December 11, 1991, January 2, 1992, January 13, 1992, April 21, 1992 and June 4, 1992.



For the U.S. Nuclear Regulatory Commission  
Original Signed by Patricia M Vachieron

Date: JUL 01 1992

By  
Materials Licensing Section, Region III

COPY

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 02220  
STATUS CODE: 0  
FEE CATEGORY: 7C  
EXP. DATE: 19960731  
FEE COMMENTS:  
DECOM FIN ASSUR REQDTN  
|||||

LICENSE FEE TRANSMITTAL

A. REGION III

1. APPLICATION ATTACHED  
APPLICANT/LICENSEE: NORTHERN MEDICAL IMAGING  
RECEIVED DATE: 920608  
DOCKET NO: 3010809  
CONTROL NO: 393562  
LICENSE NO: 23-16328-01  
ACTION TYPE: AMENDMENT

2. FEE ATTACHED  
AMOUNT: \_\_\_\_\_  
CHECK NO: 8

3. COMMENTS

SIGNED P. Dittloff  
DATE 6-9-92

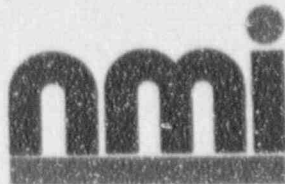
B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED ✓)

1. FEE CATEGORY AND AMOUNT: 7C **FEE NOT REQUIRED**  
2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR: Check out Survey  
AMENDMENT \_\_\_\_\_  
RENEWAL \_\_\_\_\_  
LICENSE \_\_\_\_\_

3. OTHER \_\_\_\_\_

SIGNED Rita Jacques  
DATE 6/13/92





June 4, 1992

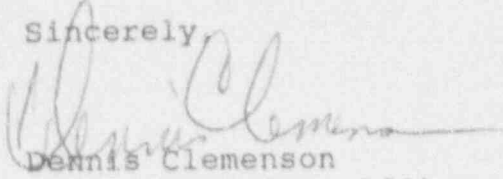
Mr. Robert Gattone  
Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Dear Mr. Gattone,

Please find enclosed a close out survey of the NMI Hot Lab located at 320 Ryan Road, Spearfish, SD. The nuclear medicine arrangements did not work out to our expectations due to the low number of studies performed. The close out was performed on June 3, 1992 and all information related is on the enclosed sheet.

Please don't hesitate to call me at (800) 642-8902 if you have any further comments related to this.

Sincerely,

  
Dennis Clemenson  
Radiation Safety Officer

DC/krv  
Enc.

cc: Ben Sanderson, Chief Operating Officer, NMI

RECEIVED BY LFMS	
Date	6/10/92
Log	Jun 8 III
By	hif
Date Completed	6/13/92

FEE NOT REQUIRED  
Closeout Survey

RECEIVED

JUN 8 1992

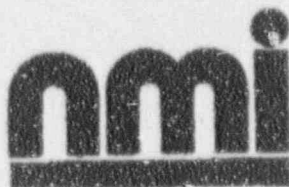
REGION III

JUN 8 1992

northern medical imaging, inc. P.O. Box 1010, Bemidji, Minnesota 56601 218 751-4168

CONTROL NO.

93562



June 3, 1992

On the date Ben Sanderson did a close out survey of the NMI Hot Lab at 320 Ryan Road, Spearfish, S.D.

All remaining Mo99 Generators were properly packed, labeled, and sent back to Mallinckrodt. The Mo99 Generator Logbook was checked and all generators received were accounted for.

The Tc99m Waste Records were checked and all waste was accounted for. The Tc99m waste was measured with the survey meter and read no higher than background at .04 MR/Hr. The waste was transported by NMI back to the Hot Lab in Bemidji, MN for disposal.

The two reference sources, Co57 S/N S206061-084 and Cs137 S/N 3560382A-So in inventory at 320 Ryan Road are accounted for. These two sources were properly packed, labeled, and transported back to the NMI Hot Lab in Bismarck, ND.

After the above described removal of all radioactive material from the Hot Lab, Ben Sanderson conducted a survey using the Victoreen 450 Survey Meter and the Victoreen Wipe Test Counter.

These are the results:

1. Background measured 50 ft. away from Hot Lab = .04 MR/Hr.
2. All area inside the Hot Lab = .04 MR/Hr.
3. All area within 10 feet of the outside walls of Hot Lab = .04 MR/Hr.
4. Wipe Test of entire counter top = Passed.
5. Wipe Test inside Tc99m Waste Storage Cabinet = Passed.
6. Wipe Test Surface of both Dose Calibrations = Passed.
7. Wipe Test the floor in front of work area = Passed.
8. Wipe Test empty Mo99 Generator Shields = Passed.

A handwritten signature in black ink, appearing to read "Ben Sanderson". The signature is fluid and cursive, with a long horizontal stroke at the end.