

## APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW

## APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20565

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,  
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TOU.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY SECTION B  
831 PARK AVENUE  
KING OF PRUSSIA, PA 19406ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,  
PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS OR  
WEST VIRGINIA, SEND APPLICATIONS TOU.S. NUCLEAR REGULATORY COMMISSION, REGION II  
NUCLEAR MATERIALS SAFETY SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

## IF YOU ARE LOCATED IN

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR  
WISCONSIN, SEND APPLICATIONS TOU.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,  
NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH,  
OR WYOMING, SEND APPLICATIONS TOU.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011ALASKA, AMERICAN SAMOA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON,  
AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS  
TOU.S. NUCLEAR REGULATORY COMMISSION, REGION V  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION

## 1 THIS IS AN APPLICATION FOR (Check appropriate item):

- ☒ A. NEW LICENSE
- ☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_
- ☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

## 2 NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Horizons Imaging and Therapy  
Limited Partnership  
5969 Broad Street  
Columbus, OH 43213

## 3 ADDRESSES WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Same

## 4 NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Frank T. Bloe NMA - Cleveland, Ohio

## TELEPHONE NUMBER

(216) 641-5799

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE

## 5 RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount  
which will be possessed at any one time

## 6 PURPOSES FOR WHICH LICENSED MATERIAL WILL BE USED

7 INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR  
TRAINING AND EXPERIENCE

## 8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

## 9 FACILITIES AND EQUIPMENT

## 10 RADIATION SAFETY PROGRAM

## 11 WASTE MANAGEMENT

## 12 LICENSEE FEES (See 10 CFR 170 and Section 170.37)

FEE CATEGORY 7C AMOUNT ENCLOSED \$ 580.00

13 CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE  
BINDING UPON THE APPLICANTTHE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS  
PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN  
IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEFWARNING: 18 U.S.C. SECTION 1001, ACT OF JUNE 25, 1948, 62 STAT. 749, MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION  
TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION

## SIGNATURE—CERTIFYING OFFICER

## TYPED/PRINTED NAME

William C. Conrad, M.D.

## TITLE

Medical Director  
and RSO

## DATE

x 2/2/88

B903160442 880304  
REG3 LIC30  
34-25877-01 PNU

## FOR NRC USE ONLY

TYPE OF FEE OFF	FEE LOG 1-19	FEE CATEGORY 7C	COMMENTS	APPROVED BY CP
AMOUNT RECEIVED 6580	CHECK NUMBER 479			DATE 2/22/88

CONTROL NO 84838

## TABLE OF CONTENTS

### ITEM

- 5 & 6      Radioactive materials - please refer to the attached Item #5 & 6
- 7          Individuals named on license - please refer to the attached Item #7
- 8.1        Training Program, Appendix A: We will establish and implement the model training program that was published in Appendix A to Regulatory Guide 10.8, Revision 2, and have appended a table ATT 8.1 that identifies the groups of workers who will receive training and the method and frequency of training
- 8.2        Other Training Program: N/A
- 9.1        Facilities and Equipment: See ATT 9.1
- 9.2        Survey Instruments, Appendix B: We will establish and implement the model procedure for calibrating survey instruments that was published in Appendix B to Regulatory Guide 10.8, Revision 2.
- 9.3        Dose Calibrator, Appendix C: We have developed a dose calibrator calibration procedure for your review that is appended as ATT 9.3.
- 9.4        Personnel Monitoring, Appendix D: We will establish and implement the model personnel external exposure monitoring program published in Appendix D to Regulatory Guide 10.8, Revision 2.
- 9.5        Mobile Nuclear Medicine Service: N/A
- 9.6        Other Equipment and Facilities: N/A
- 10.1       RSC/RSO, Appendix F: We will issue the model Radiation Safety Committee Charter and Radiation Safety Officer Delegation of Authority that was published in Appendix F to Regulatory Guide 10.8, Revision 2.
- 10.2       ALARA, Appendix G: We will establish and implement the model ALARA program that was published in Appendix G to Regulatory Guide 10.8, Revision 2.
- 10.3       Leak Test, Appendix H: We will establish and implement the model procedure for leak testing sealed sources that was published in Appendix H to Regulatory Guide 10.8, Revision 2.
- 10.4       Safety Rules, Appendix I: We will establish and implement the model safety rules published in Appendix I to Regulatory Guide 10.8, Revision 2.

- 10.5 Spills, Appendix J: We will establish and implement the model spill procedures published in Appendix J to Regulatory Guide 10.8, Revision 2.
- 10.6 Ordering and Receiving, Appendix K We have developed a procedure for ordering and receiving radioactive material for your review. That is appended as ATT 10.6.
- 10.7 Opening Packages, Appendix L: We will establish and implement the model procedure for opening packages that was published in Appendix L to the Regulatory Guide 10.8, Revision 2.
- 10.8 Unit Dose, Appendix M.1: We will establish and implement the model procedure for unit dosage record system that was published in Appendix M.1 to Regulatory Guide 10.8, Revision 2.
- 10.9 Multi-doses, Appendix M.2: We will establish and implement the model procedure for a multi dose vial record system that was published in Appendix M.2 to Regulatory Guide 10.8, Revision 2
- 10.10 Molybdenum Breakthrough, Appendix M.3: We will establish and implement the model procedure for measuring and recording molybdenum concentration that was published in Appendix M.3 to Regulatory Guide 10.8, Revision 2.
- 10.11 Implant Sources, Appendix M.4: N/A
- 10.12 Area Surveys, Appendix N: We have developed survey procedures for your review that are appended as ATT 10.12,
- 10.13.1 Charcoal Trap, Appendix O.3: We will collect spent noble gas in a shielded container and will establish and implement the model procedure for checking trap effluent that was published in Appendix O.3 to Regulatory Guide 10.8, Revision 2.
- 10.13.2 Worker dose from aerosols: N/A
- 10.13.3 Airborn Effluents: We will not directly vent spent aerosols and gases to the atmosphere and therefore no effluent estimation is necessary.
- 10.13.4 Clearance Time, Appendix O.4: We will calculate spilled gas clearance times according to the procedure only that was published in Appendix O.4 to Regulatory Guide 10.8, Revision 2.



- 10.14 Radiopharmaceutical Therapy, Appendix P: N/A
- 10.15 Implant Therapy, Appendix Q: N/A
- 10.16 Other Safety Procedures: N/A
- 11.1 Waste Disposal, Appendix R: We will establish and implement the general guidance and model procedures for waste disposal that were published in Appendix R to Regulatory Guide 10.8, Revision 2.
- 11.2 Other Waste Disposal: Refer to the ATT 11.2

## ITEM #5

## ITEM #6

BYPRODUCT MATERIALAMOUNTPURPOSE

Material in 35.100

As needed

Medical use

Material in 35.200

As needed

Medical use

Item #5 & 6  
1 of 1 page  
Prepared: 1/13/88  
Lic: # New

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INDIVIDUALS RESPONSIBLE FOR RADIATION  
SAFETY PROGRAMS - THEIR TRAINING & EXPERIENCE

AUTHORIZED USERS FOR MEDICAL USE  
ATT 7.1

AUTHORIZED USER

AUTHORIZATION

J.F. Dotter, M.D.

35.100, 35.200  
for all

C.D. Schloss, M.D.  
J.D. Morris, M.D.  
J.R. Rothe, M.D.  
L.R. Fulmer, M.D.  
A.Z. Filiatraut, M.D.  
S.F. Probst, M.D.  
W.C. Conrad, M.D.  
G.P. Cain, M.D.  
E.S. Carducci, M.D.

For above physicians, refer to attached copy of NRC license  
#34-20465-01 for evidence of training and experience.

AUTHORIZED USERS FOR NOMEDICAL USE

ATT 7.2

N/A

RADIATION SAFETY OFFICER

ATT 7.3

William C. Conrad III, M.D.  
with consultation from NMA/Mallinckrodt, Cleveland, Ohio

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Item #7  
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Prepared: 1/13/88  
Lic: # New