

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 DISTRIBUTORS OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
 DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
 WASHINGTON, DC 20545

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 TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 NUCLEAR MATERIALS SAFETY SECTION B
 476 ALLENDALE ROAD
 KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
 NUCLEAR MATERIALS SAFETY SECTION
 101 MARIETTA STREET, SUITE 2000
 ATLANTA, GA 30322

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
 MATERIALS LICENSING SECTION
 799 ROOSEVELT ROAD
 GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
 MATERIAL RADIATION PROTECTION SECTION
 611 RYAN PLAZA DRIVE, SUITE 1000
 ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
 NUCLEAR MATERIALS SAFETY SECTION
 1480 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94598

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)

TIDEWATER HEART SPECIALISTS, INC.
 2112 B HARTFORD ROAD
 HAMPTON, VIRGINIA 23666

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

TIDEWATER HEART SPECIALISTS, INC.
 2112 B HARTFORD ROAD
 HAMPTON, VIRGINIA 23666

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

JOHN W. CURE, III, CONSULTING PHYSICIST

TELEPHONE NUMBER

704-384-7003

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2" 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. PURPOSE(S) 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 170.31)

FEE CATEGORY 170.31-7C 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 APPLICANT.

THE 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 20, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 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

TITLE

DATE

Mark W. Clark

MARK W. CLARK, M.D., M.P.H., DIRECTOR

7/18/89

9001170205 890817
 REG2 LIC30
 45-25064-01 PDR

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
App	Jul-5-II	7c		M. Puzar
AMOUNT RECEIVED	CHECK NUMBER			DATE
\$580	3864			7/28/89

Item 7 AUTHORIZED USERS FOR MEDICAL USE

<u>USER</u>	<u>USE</u>
Paul C. Davis, M.D.	§ 31.11, 35.100, 35.200, 35,500
John D. Hopkins, Jr., M.D.	§ 31.11, 35.100, 35.200, 35,500

SEE NORFOLK COMMUNITY HOSPITAL
LICENSE #45-12768-01
FOR
TRAINING AND PRECEPTOR STATEMENTS

Item 7.1

RADIATION SAFETY OFFICER

PAUL C. DAVIS, M.D.

SEE NORFOLK COMMUNITY HOSPITAL LICENSE #45-12768-01
FOR
TRAINING AND PRECEPTOR STATEMENTS

Item 8

TRAINING FOR INDIVIDUALS WORKING IN
OR
FREQUENTING RESTRICTED AREAS

We will establish and implement the model training program that was published in Appendix A to Regulatory Guide 10.8, Revision 2.

TABLE 8.1

<u>GROUPS OF WORKERS</u>	<u>TYPE OF TRAINING</u>
Nuclear Medicine Technologist	Lecture and/or Demonstration
Ancillary Personnel	Lecture and/or Demonstration

Item 9.2

CALIBRATION OF SURVEY INSTRUMENTS

We will:

- 1) Establish and implement the model procedure for calibrating survey instruments that was published in Appendix B to Regulatory Guide 10.8, Revision 2, or
- 2) Use a consultant possessing an NRC license authorizing him to calibrate survey instruments.

Item 9.3

DOSE CALIBRATOR CALIBRATION

We will establish and implement the model procedure for calibrating dose calibrator that was published in Appendix C to Regulatory Guide 10.8, Revision 2.

Item 9.4

PERSONNEL MONITOR PROGRAM

We will establish and implement the model personnel external exposure monitoring program published in Appendix D to Regulatory Guide 10.8, Revision 2

Item 9.5

IMAGING EQUIPMENT

We will not be transporting imaging equipment.

Item 9.6

FACILITIES AND EQUIPMENT

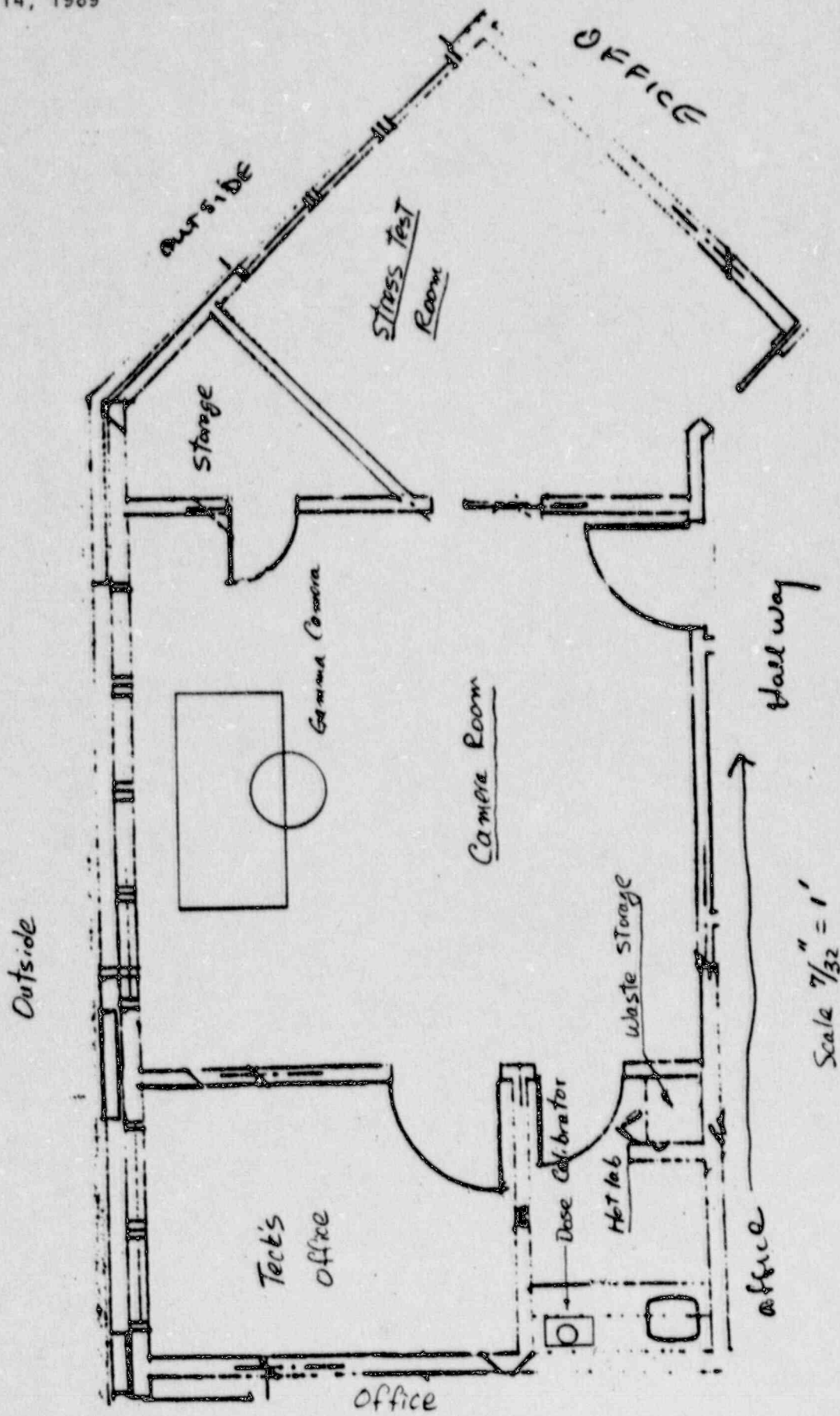
The layout of the facilities is as shown in the attached floor plan.

At this time the gamma camera is the Siemens ZLC 370/750.

The dose calibrator is Capintec Model CRC-7.

There is presently one Eberline ESP-1 portable survey meter in the facility.

The Hot Laboratory is equipped with a sink, a work bench, a shadow shielded "L" shield and lead which is available for extra shielding.



Item 10.1

RADIATION SAFETY COMMITTEE

Establishing and operating a Radiation Safety Committee as published in Appendix F to Regulatory Guide 10.8, Revision 2, is not required.

Item 10.2

ALARA PROGRAM

We will establish and implement the model ALARA program that was published in Appendix G to Regulatory Guide 10.8, Revision 2.

Item 10.3

LEAK TEST

We will:

- 1) Establish and implement the model procedure for leak testing sealed sources that was published in Appendix H to Regulatory Guide 10.8, Revision 2, or
- 2) Use the services of a consultant licensed by the NRC to perform leak testing.

Item 10.4

SAFE USE OF RADIOPHARMACEUTICALS

We will establish and implement the model safety rules published in Appendix I to Regulatory Guide 10.8, Revision 2.

Item 10.5

SPILL PROCEDURES

We will establish and implement the model spill procedures published in Appendix J to Regulatory Guide 10.8, Revision 2.

Item 10.6

ORDERING AND RECEIVING

We will establish and implement the model guidance for ordering and receiving radioactive materials that was published in Appendix K to Regulatory Guide 10.8, Revision 2.

Item 10.7

OPENING PACKAGES

We will establish and implement the model procedure for opening packages that was published in Appendix L to Regulatory Guide 10.8, Revision 2.

Item 10.8

UNIT DOSAGE RECORDS

We will establish and implement the model procedure for a unit dosage record system that was published in Appendix M.1 to Regulatory Guide 10.8, Revision 2.

Item 10.9

MULTIDOSE VIAL RECORDS

If we use multidose vials, we will establish and implement the model procedure for a multidose vial record system that was published in Appendix M,2 to Regulatory Guide 10.8, Revision 2.

We are now using a nuclear pharmacy and do not use a generator. However, should we begin using a generator, this is the system we will follow.

Item 10.10

Mo-99 CONCENTRATION RECORDS

If we do not use radiopharmaceuticals prepared by a nuclear pharmacy, we will establish and implement the model procedure for measuring and recording molybdenum that was published in Appendix M.3 to Regulatory Guide 10.8, Revision 2.

Item 10.12

AREA SAFETY PROCEDURES

We will establish and implement the model procedure for area surveys that was published in Appendix N to Regulatory Guide 10.8, Revision 2.

Item 10.13

AIR CONCENTRATION CONTROL

WORKER DOSE FROM AEROSOL (Item 10.13.2)

We will collect spent aerosol in a shielded trap and, for reusable traps, monitor the trap effluent with an air contamination monitor that we will check regularly according to the manufacturer's instructions.

We will establish and implement the model procedure for calculating worker dose from aerosols that was published in Appendix O.1 to Regulatory Guide 10.8, Revision 2.

PUBLIC DOSE FROM AIRBORNE EFFLUENT (Item 10.13.3)

We will not directly vent spent aerosols and gases to the atmosphere; therefore, no effluent estimate is necessary.

SPILLED GAS CLEARANCE TIME (Item 10.13.4)

We will calculate spilled gas clearance times according to the procedure that was published in Appendix 0.4 to Regulatory Guide 10.8, Revision 2.

Item 10.14

RADIOPHARMACEUTICAL THERAPY

We will not perform radiopharmaceutical therapy.

Item 10.15

IMPLANT THERAPY

We will not perform implant therapy.

Item 11.1

WASTE DISPOSAL

We will establish and implement the general guidance and model procedures for waste disposal that was published in Appendix R to Regulatory Guide 10.8, Revision 2. However, should we use a Mo-99 generator, we may return spent generators as a radioactive material to the original supplier after performing the surveys as required by 49 CFR and using the proper shipping papers furnished by the supplier.