

JOHNSTON-WILLIS HOSPITAL

1401 Johnston-Willis Drive
Richmond, Virginia 23235-4786
Telephone (804) 330-2000
Virginia Toll Free 1-800-468-6620

March 27, 1995

Material licensing Section
U.S. Nuclear Regulatory Commission
Suite 2900
101 Marietta Street
Atlanta, Georgia 30303

Log	APR 1 II
Remitter	
Check No.	258897
Amount	2500
Fee Category	GC 2B
Type of Fee	Amel
Date Check Rec'd.	
Date Completed	4/10/95
By:	lin

Subject: Amendment of License No 45-0288801

Johnston Willis Hospital requests that the following amendments be made to our Materials License.

- Add to the list of areas in which radioactive materials are being used, the cardiovascular services area located on the second floor of our facility (see attached diagram).
- Amend the list of authorized users to add 35.200 and 35.300 for Dr. George Thomas. Dr. Thomas' training and experience was reviewed by the Radiation Safety Committee at the March 10, 1995, meeting (see attached documentation). Dr. Thomas is also listed for 35.200 on the Chippenham Medical center license # 45-15219-01.
- Add to the list of areas in which radioactive materials are being used, a decay and storage area for low level radioactive wastes adjacent to our administration building (see enclosed diagrams). The waste will be held in a large jobsite chest (see attached description) within a fenced area. The chest is weather resistant and will be padlocked. All waste placed in the chest will be sealed in plastic bags providing a secondary barrier from moisture. The sheer size and weight of the chest ensure that the unit itself will not be moved or stolen. The majority of the wastes stored in the chest will be low level and will present minimal risk to the general public. We will use the definitions in Part 20 for "Radiation Area" and Restricted Area" to post the area. The fenced in area will be labelled as a restricted area. The chest will be labelled as containing radioactive materials and may be labeled as a radiation area if the dose levels exceed the prescribed limits. Using occupancy and exposure levels, the Radiation Safety Officer will semi-annually evaluate the likelihood than any member of the public will receive more than 100 mrem/yr from radioactivity stored in this chest and take appropriate actions when necessary. The Radiation Safety Officer will include this in his semi-annual report to the Radiation Safety Committee.

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Attached is a check for \$500.00 to cover the amendment fee specified in 10 CFR 170.13. If you should have any questions regarding our requested amendment, please contact Lenna Deletis in Nuclear Medicine at (804)330-2157.

Sincerely,

A handwritten signature in black ink, appearing to be 'Paul Baldwin', with a long horizontal flourish extending to the right.

Paul Baldwin
Assistant Administrator

PB/caj
enclosures

Johnston Willis Hospital

Cardiovascular Services

File & Computer Room

Stretcher

EEG Exam Room

Room 1

EKG

Hall

EKG

Outside
Wall

Treadmill

Treadmill

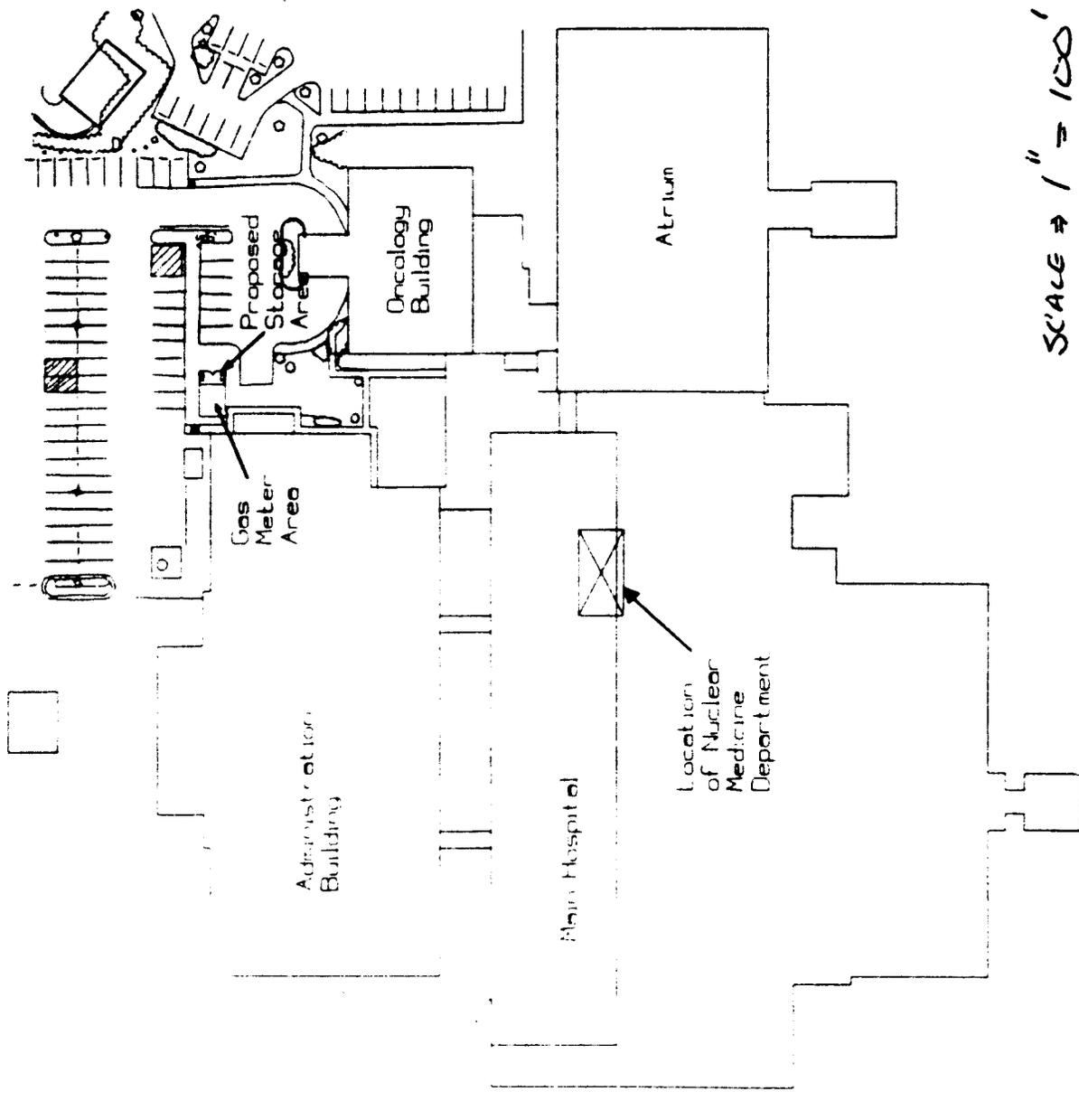
Room 2

Stretcher

Holter Scan Room

Office

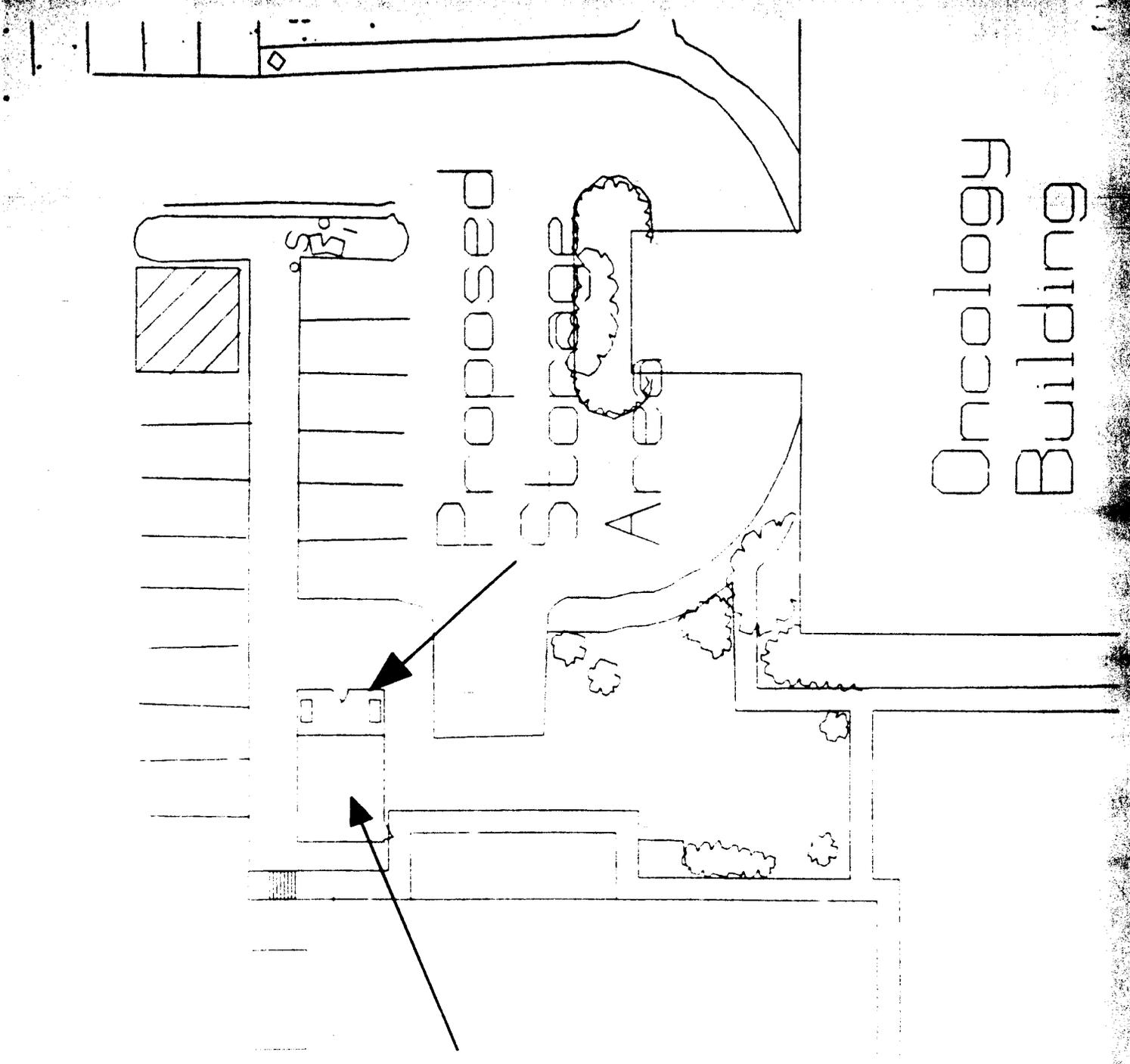
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SCALE \Rightarrow 1" = 100'

Oncology Building

Proposed
Storage
Area



Proposed
Storage
Area

256379

SCALE ⇒ 1" = 25'

Lenna

**HAND TOOLS
JOBSITE BOXES**

JOBSITE CHESTS AND CABINETS

- 16 Gauge steel construction with Uni-Body design for optimum strength
- Formed ribs in chests give added strength and rigidity
- 3 1/4" High box end skirts give added height and make for easy forklifting; threaded inserts are welded in for easy installation of casters
- Seams are overlapped and fully welded for weather-resistance and strength
- Hemmed edges for strength and safety
- Full length piano hinges are staked and welded for maximum security
- Flush design keeps side handles and lid handles out of the way
- Phosphatized and painted Dayton Red with baked enamel, water base paint

PADLOCK PLUS LOCKING SYSTEM

Gives two point locking (one at each end) while using only one padlock. Push lock in and system engages, turn key and system unlocks (Padlock not included)

9.7, 16.0, and 20.0 Cu-Ft Dayton Chests have mating cover and body design that form a deep, secure overlap to resist wind-driven weather and prying. Locking cover supports prevent cover from dropping. Full length bin across back for small parts and tools.

34.0 Cu-Ft Dayton Slant Top Chest offers large storage capacity with a slanted cover for reading blue prints and drawings. Mating cover and body design form a deep, secure overlap that resists wind-driven weather and prying. Double hinged cover opens up and folds completely out of the way. Heavy duty gas springs allow for easy opening and closing and prevents top from falling. Two 12" shelves offer storage for small tools and parts. Holds 16 bins. No. 2W329 (not included).

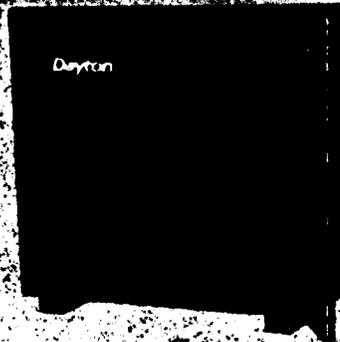
37.5 and 50.0 Cu-Ft Dayton Flat Top Chests offer huge capacity and easy access. Mating cover and body design form a deep, secure overlap that resists wind-driven weather and prying. Double hinged cover opens up and folds completely out of the way. Heavy-duty gas springs allow for easy opening and closing and prevents top from falling. 50 Cu ft chest has three 12" shelves and holds 24 bins. No. 2W329 (not included). 37.5 Cu ft chest has one 12" shelf and holds 8 bins. No. 2W329 (not included).

47.5 Cu-Ft Dayton Cabinet is designed to store tools, instruments, and devices which are susceptible to damage or theft. Picture frame door construction gives added strength and theft protection. Three shelves are welded in place and reinforced for increased strength and rigidity. Items can be placed where they can be seen and easily accessed.

Dayton



PARTS AVAILABLE
CALL
1-800-323-0230



CASTERS NOT INCLUDED
Order Casters
No. 3A844 or 3A845

**CASTERS
MOUNTING HARDWARE
NOT INCLUDED**
Four 3/8-16 x 3/4" self-tapping hex head screws and four 3/8" lockwashers required per caster.

PADLOCK NOT INCLUDED
Order Padlock No. 4T082
Use #2 Masterlock or equivalent.

PADLOCK PLUS LOCKING SYSTEM
Two Point Locking With One Padlock†

Key	Description	Cu-Ft Storage	Dimensions, inches			Caster Qty.	Stock No.	Each	Ship Wt.
			Ht.	W.	D.				
A	Chest	9.7	21	42	20	4	6C695	\$215.00	113.0
A	Chest	16.0	25	48	24	4	6A576	289.00	180.0
A	Chest	20.0	27	60	24	4	6A577	325.00	180.0
B	Chest	34.0	48	48	30	4	6C697	539.00	271.0
C	Chest	37.5	34	60	30	4	6C696	495.00	264.0
C	Chest	50.0	48	60	30	4	6A578	599.00	324.0
D	Cabinet	47.5	56	60	24	4	6A579	699.00	600.0

* Casters and mounting hardware not included. Order casters No. 3A844 or No. 3A845 from page 1738. Four 3/8-16 x 3/4" self-tapping hex head screws and four 3/8" lockwashers required per caster.
† Padlocks not included. Order No. 4T082, see page 2037.
‡ Height dimension does not include 3 1/4" high box end skirt.

MANY COOPER HAND TOOLS AVAILABLE

256379

Wiss

Nicholson

Lufkin

Crescent

Weller

1000

WHOLESALE PRICES—GRAINGER

- Heavy Non ac
- Red or
- by
- A 6 Dr
- B 3 Dr. Cabt
- C 10 Dr
- D 5 Dr. Cabt
- E 4 Dr. Chest
- F 6 Dr. Cabt

SUPPLEMENT A

U.S. NUCLEAR REGULATORY COMMISSION

**TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER**

1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER George Thomas, M.D.		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED Virginia		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
American Board of Pathology	Anatomic and Clinical Pathology	May 1977		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION	200 Hour Nuclear Physician Licensing Course held by NMA in Cleveland, Ohio on the following dates: Aug. 22-26, 1994	100		
b. RADIATION PROTECTION	Sept. 19-23, 1994 Oct. 10-14, 1994 Nov. 7-11, 1994	30		
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	.	20		
d. RADIATION BIOLOGY	.	20		
e. RADIOPHARMACEUTICAL CHEMISTRY	.	30		
5. EXPERIENCE WITH RADITATION (Actual use of Radioisotopes or Equivalent Experience)				
RADIOISOTOPES	HOW USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE

PROPOSED PHYSICIAN USER George W Thomas

PRECEPTOR STATEMENT (CONTINUED)

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS <small>(Additional information or comments may be submitted in duplicate on separate sheets.)</small> D
P-32 <small>(Soluble)</small>	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 <small>(Colloidal)</small>	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Co-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
	TELETHERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mn-59/ Tc-99m	GENERATOR	5	
Sr-90/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS	5	
Other			

3 DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING
 LOCATION: NMA DATES: September 19-23, 1994 CLOCK HOURS OF EXPERIENCE: 4
Cleveland, Ohio

4 THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF

a. NAME OF SUPERVISOR
David Close

b. NAME OF INSTITUTION
NMA

c. MAILING ADDRESS
9457 Midwest Avenue

d. CITY
Cleveland, Ohio 44125

6 PRECEPTOR'S SIGNATURE
David Close

7 PRECEPTOR'S NAME (Please type or print)
David Close
Manager of Training & Development

8 DATE
November 11, 1994

9 MATERIALS LICENSE NUMBER(S)
24-04206-07MD

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

Approved by OMB
3150-0041
Expires 9-30-86

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER George W. Thomas, M.D.	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE Virginia
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3. CERTIFICATION

SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
American Board of Pathology	Anatomic and Clinical Pathology	May 1977

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION			
b. RADIATION PROTECTION			
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY			
d. RADIATION BIOLOGY			
e. RADIOPHARMACEUTICAL CHEMISTRY			

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE

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PRECEPTOR STATEMENT

Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.

1. APPLICANT PHYSICIAN'S NAME AND ADDRESS

FULL NAME
George W. Thomas, M.D.

STREET ADDRESS
**Clinical Laboratory Consultants
1401 Johnston-Willis Drive**

CITY | STATE | ZIP CODE
Richmond, VA 23235

KEY TO COLUMN C

PERSONAL PARTICIPATION SHOULD CONSIST OF:

- 1-Supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation for prescribed dosage.
- 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data.
- 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
I-131 or I-125	DIAGNOSIS OF THYROID FUNCTION		
	DETERMINATION OF BLOOD AND BLOOD PLASMA VOLUME		
	LIVER FUNCTION STUDIES		
	FAT ABSORPTION STUDIES		
	KIDNEY FUNCTION STUDIES		
IN VITRO STUDIES			
OTHER			
I-125	DETECTION OF THROMBOSIS		
I-131	THYROID IMAGING		
P-32	EYE TUMOR LOCALIZATION		
Sr-75	PANCREAS IMAGING		
Yb-169	CISTERNOGRAPHY		
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES		
OTHER			
Tc-99m	BRAIN IMAGING		
	CARDIAC IMAGING		
	THYROID IMAGING		
	SALIVARY GLAND IMAGING		
	BLOOD POOL IMAGING		
	PLACENTAL LOCALIZATION		
	LIVER AND SPLEEN IMAGING		
	LUNG IMAGING		
BONE IMAGING			
OTHER			

PRECEPTOR STATEMENT (Continued)

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS <i>(Additional information or comments may be submitted in duplicate on separate sheets.)</i> D
P-32 <i>(Soluble)</i>	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		The experience listed at the left was obtained from Sept. 1993 through Dec. 1994.
P-32 <i>(Colloid)</i>	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA	9	
	TREATMENT OF HYPERTHYROIDISM	31	
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
	TELE THERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sr-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			
Sr-89	Treatment of Bone Mets	15	

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:

5. PRECEPTOR'S SIGNATURE

a. NAME OF SUPERVISOR

Russell O. Briere, M.D.

Russell O. Briere M.D.

b. NAME OF INSTITUTION

Johnston-Willis Hospital

7. PRECEPTOR'S NAME *(Please type or print)*

Russell O. Briere, M.D.

c. MAILING ADDRESS

1401 Johnston-Willis Drive

d. CITY

Richmond, Virginia 23235

8. DATE

Mar , 1995

5. MATERIALS LICENSE NUMBER(S)

45-02888-01

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