

Medical Imaging Educators, Inc.

3565 Moorhead • Boulder, CO • 80303 • (303) 494-6266

July 7, 1986

United States
Nuclear Regulatory Commission
Region III
Ms. Patricia M. Vacherlon
Material Licensing Section
799 Roosevelt Road
Glen Ellyn, IL 60137

RE: Byproduct Material License
Thomas R. White, M.D.
Tri-State Cardiac Imaging, Inc.
Control Number 81246

Dear Ms. Vacherlon:

In response to your letter dated June 27, 1986, I have made the following changes to Dr. White's of the application and have responded in duplicate to your questions:

1. "Since your application states that at this time you will not calibrate your own survey instrument, please submit the name and NRC license number of the contractor you will use. This contractor must have an NRC license which authorizes them to do this type of service. Alternately, you may return the instrument to the manufacturer for annual calibration".....

CONTRACTOR: Standard Nuclear Consultants, Ltd.
NRC LICENSE #: 12-20362-01

2. "Your facility diagram and description of equipment does not appear to be adequate for a Tc-99m generator. Please state where the generator will be stored, what type of shielding you will have around the generator in use, and a description of the decay-in-storage area where the spent generators will be stored prior to disposal".....

Please see the enclosed detailed diagram of the hot lab.

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REG3 LIC30
13-24706-01 PDR

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REGION III

JUL 21 1986

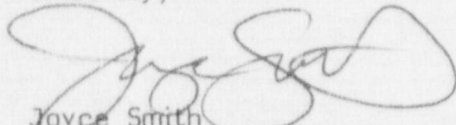
July 7, 1986
U.S. Nuclear Regulatory Commission
Page 2

3. "In order to be authorized to use Group III, you will have to submit documentation of your personal participation in five procedures to elute Tc-99m generators, and five procedures to prepare radiopharmaceuticals from reagent kits. This information was not included in your Supplement B statement".....

Dr. White has participated in more than five procedures to elute Tc-99m generators and to prepare radiopharmaceuticals from reagent kits. Please see the amended form NRC 313m Preceptor Statement as I neglected to mark the appropriate spaces on the original.

We are currently working on verification of Dr. White's preceptorship training and will respond to question number four as soon as we have that information available.

Sincerely,



Joyce Smith
Administrative Assistant

JLS

enclosure

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

Thomas Roger White, M.D.

STREET ADDRESS

611 Harriet

CITY

Evansville

STATE

IN 47710

ZIP CODE

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 (MUGA)	30	
	PLACENTA 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 (Additional information or comments may be submitted in duplicate on separate sheets.) D
P-32 (Soluble)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 (Colloidal)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
	TELETHERAPY TREATMENT		
Co-60 or Cs-137	TELETHERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR	5	
Sr-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS	5	
Other Tl-201	 Myocardial Imaging	 655	

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

1981 - 1982	300 hours (estimated)	NOTE: Handling techniques were 300 hours of the 900 total.
1983 - 1986	<u>600 hours</u>	
	900 hours	

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:		5. PRECEPTOR'S SIGNATURE	
a. NAME OF SUPERVISOR David J. Carlson, M.D.		7. PRECEPTOR'S NAME (Please type or print) David J. Carlson, M.D.	
b. NAME OF INSTITUTION Deaconess Hospital			
c. MAILING ADDRESS 600 Mary Street			
d. CITY Evansville, IN 47747		8. DATE	
6. MATERIALS LICENSE NUMBER(S)			

A. Receipt of Material

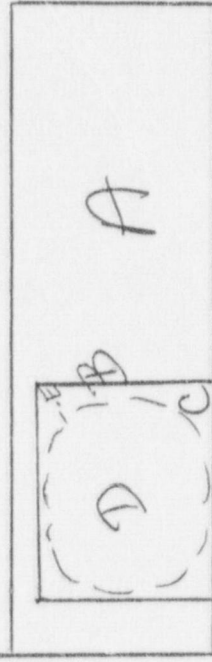
B. L shield- lead & lead glass

C. Generator- with lead Shield (sleve)

D. Preparation area- behind Shield

E. Waste Storage (Dis)

Below counter shielded
with 2"-3" of solid
concrete if necessary
to reduce exposure



Detail of Hot Lab- Dr. White

Table Top Lead Barrier Shields

Protect head and body from radiation when working with radioactive material.

■ Two model sizes available

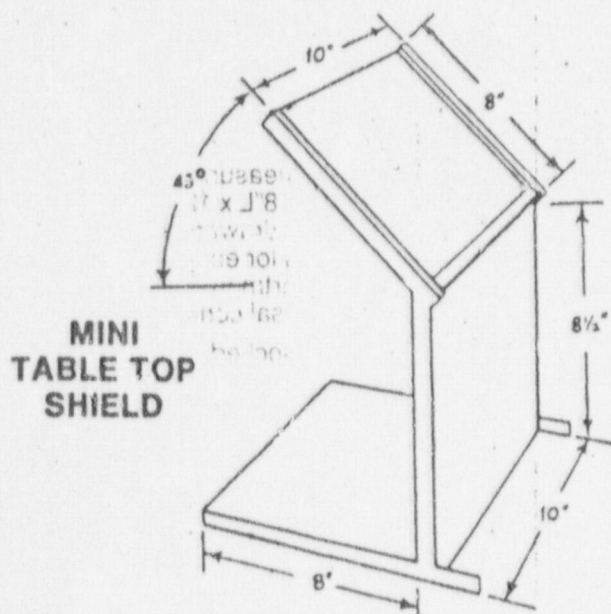
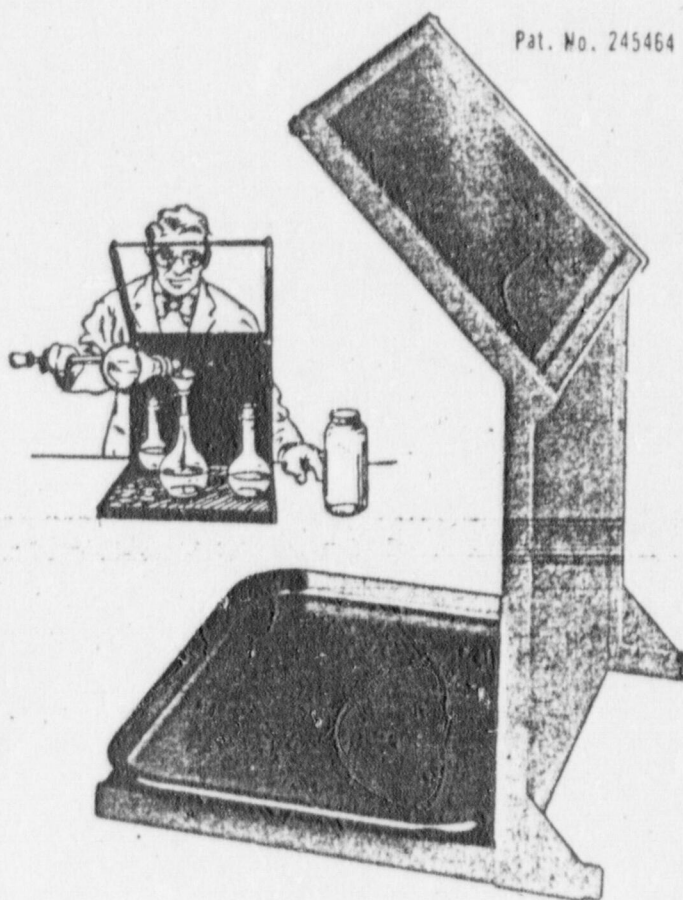
MINI TABLE TOP SHIELD for small jobs in limited working areas.

STANDARD TABLE TOP SHIELD for all routine work requiring protection against exposure to radiation.

Select the shield most suited to your workload. Both units provide exceptional protection to the clinician when setting up technetium generators, filling syringes, performing radium loading procedures, etc.

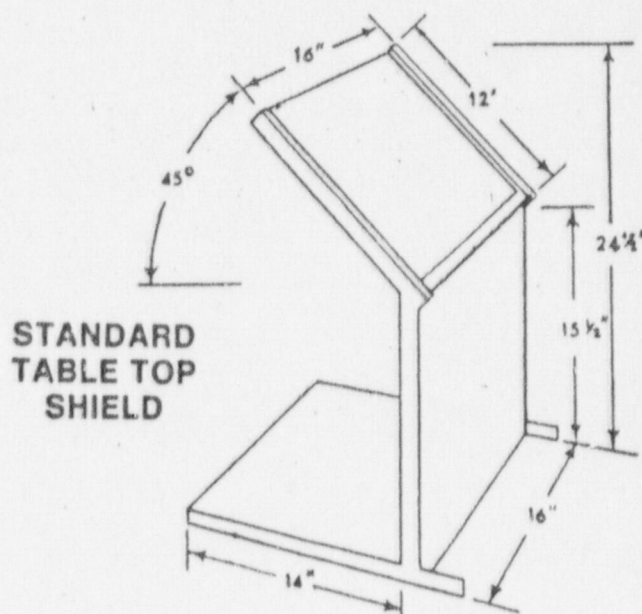
$\frac{1}{2}$ " thick lead wall protects the torso while solid lead base provides ample working surface and balance against tipping. Face shielding is optically clear $\frac{1}{4}$ " thick lead glass (1 or 2 pieces may be specified when ordering), cantilevered for unimpaired viewing or work area. The lead equivalent of each thickness of glass is 2.00mm.

Both units can be moved with little effort to any convenient location, allowing total flexibility in choice of work area.



**MINI
TABLE TOP
SHIELD**

042-016	Mini Table Top Shield (one piece lead glass)	\$230.00
042-116	Mini Table Top Shield (two pieces lead glass)	\$290.00



**STANDARD
TABLE TOP
SHIELD**

042-216	Standard Table Top Shield (one piece lead glass)	\$400.00
042-316	Standard Table Top Shield (two pieces lead glass)	\$500.00