Question #2

MOBILE MEDICAL SERVICES
Specializing in Diagnostic Ultrasound and Nuclear Medicine Procedures
METRO PLAZA OFFICES
2705 B INDUSTRIAL DRIVE
JEFFERSON CITY, MISSOURI 65101
314 - 893-2828

October 16, 1982

Regional Licensing Section
Material Licensing Branch
Division of Fuel Cycle and Material Safety
U.S. NRC, Region III
799 Roosevelt Road
Glenn Ellyn, Illinois 60137

Dear Sir:

Mobile Medical Services would like to amend its license, 24-18094-01, to add a new base lab and perform groups I, II and III nuclear medicine procedures in (3) hospitals. We also request the addition of Xenon-133 ventillation procedures in a hospital we are presently performing nuclear procedures. The following is detailed information on each individual request with supportive documentation:

Amendment requests for groups I, II and III

1) Base Lab -- Space Center, 3737 E. 10th street, Suite 12, Joplin, Missouri. This will be a satellite facility. It will be used in the same manner as the office/lab in Kirksville, Missouri. All kit preparation, equipment calibration, surveys and procedures will be in accordance with our license application dated 24 March 1978, and all letters listed on amendment #4, item 13 of the license.

Equipment to be used:

a. Technicare mobile gamma camera model 120 with computer
b. Capintec Dose Calibrator model #5 with molly breakthrough kit.
c. Victoreen-498 survey meter 0-1R/hr.
d. Nuclear Associates low level survey meter model 05-700, 0-50mr/hr.

Lead lined closet 2&1/2 ft. high 1 in. thick, for storage
Lead bricks for generator housing -- metal generator shield supplied by the manufacturer.
Lead storage containers with lids
Decontamination kit
Syringes shields
Absorbant paper - plastic backed

All radiopharmaceuticals will be stored in their shipping containers or in the lead brick safe. Solid waste will be placed in plastic bags which will then be placed in the lead

Lined closet. Used generators will be stored in the same area. The lab will be locked at all times.

Radioactive material will be delivered to the Joplin address above. During normal working hours the material will be accepted by the nuclear medicine technologist. Delivery service personnel will be given keys to the lab for after-hours delivery. They will be instructed to leave the material in the lab and lock the door upon departure.

Please see the attached schematic of the Joplin office/lab facility.

2) We wish to perform Group I, II and III nuclear medicine procedures at the Grove General Hospital, 1310 South Main, Grove, Oklahoma 74344. Approval letter is attached. James Arnold, M.D., Radiologist will be the on-site nuclear physician. Dr. Arnold is presently licensed by the NRC, license No. 24-17205-01. This license listed him as a user at the Freeman Memorial Hospital in Joplin, Missouri. Dr. Arnold is now the Radiologist for the Grove facility. Attached is a schematic of the nuclear scanning room. All radiation safety procedures and polices stated in the application letter dated March 24, 1978 will be followed.

3) We wish to perform groups I, II and III nuclear medicine procedures at the Raleigh Hills Hospital, 130 A Street S W., Miami, Oklahoma 74354. Approval letter is attached. James Smith, M.D., Radiologist will be the on-site nuclear physician. Dr. Smith is presently listed as a user on the Baptist Hospital of Miami, Oklahoma -- license No. 35-16233-01. He is also the Radiologist for the Raleigh Hills Hospital. Attached is a schematic of the nuclear scanning room for this facility. All radiation safety procedures and policies stated in the application letter dated March 24, 1978 will be followed.

4) We wish to add 133 xenon for ventilation lung scans for the Hedrick Medical Center, 100 Central Street, Chillicothe, Missouri 64601. This facility is already listed on our license for groups I, II and III procedures. The facility is now being served by the mobile unit that was recently approved to transport and perform xenon 133 studies out of the approved Lexington, Missouri Lab. Amendment letter requests dated 2 March 1982, 12 April 1982, and 16 April 1982. Attached is a schematic of the room where these ventilation procedures will be performed with room ventilation rates.

5) We wish to perform groups I, II and III nuclear medicine procedures at the Community Hospital, Bridge and Ray Streets, Sweet Springs, Missouri 65351. The nuclear physician for this facility will be Raymond W. Hartwig, M.D., Radiologist and Rodney C. Hartman, M.D., Radiologist. Dr. Raymond W. Hartwig is presently licensed by the NRC #24-00624-02 at the Trinity Lutheran Hospital in Kansas City, Missouri. Dr. Rodney C. Hartman is a member of the group of itinerate Radiologists that cover this hospital. He is a recent grad-

uate of the University of Kansas Medical School Radiology program. See attached documentation of his nuclear medicine training. We wish to add him as a user for this facility. See attached attached approval letter and schematic of the scanning room for the hospital.

I have enclosed an amendment fee check for $40.00.

Respectfully submitted,

Del Roberts, C.N.M.T.
President

William H. Voss, D.O.
Radiation Safety Officer

Enclosures

Item #5

FORM NRC-313M-SUPPLEMENT B
(8-78)

U. S. NUCLEAR REGULATORY COMMISSION

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

RODNEY C. HARTMAN M.D

STREET ADDRESS

61309 CHESTNUT RTE 3

CITY | STATE | ZIP CODE

SEDALIA MO 65301

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	108	
	DETERMINATION OF BLOOD AND BLOOD PLASMA VOLUME	8	
	LIVER FUNCTION STUDIES	10	
	FAT ABSORPTION STUDIES	—	
	KIDNEY FUNCTION STUDIES	193	
	IN VITRO STUDIES	>238	
OTHER			
I-125	DETECTION OF THROMBOSIS	14	
I-131	THYROID IMAGING / METASTASIS	13	
P-32	EYE TUMOR LOCALIZATION		
Se-75	PANCREAS IMAGING	2	
Yb-169	CISTERNOGRAPHY	39	
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES	121	
OTHER	Ga-67 TUMOR/ABSCESS	150	
Tc-99m	BRAIN IMAGING	312	
	CARDIAC IMAGING	67	
	THYROID IMAGING	129	
	SALIVARY GLAND IMAGING		
	BLOOD POOL IMAGING / RENAL / MECKEL'S	92	
	PLACENTA LOCALIZATION		
	LIVER AND SPLEEN IMAGING	378	
	LUNG IMAGING	136	
	BONE IMAGING	544	
OTHER	In-113m GASTRIC EMPTYING	76	

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	5	
	TREATMENT OF HYPERTHYROIDISM	4	
Au-198	INTRACAVITARY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT		
I-125 or Ir-192	INTERSTITIAL TREATMENT		
Co-60 or Cs-137	TELETHERAPY TREATMENT		
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR	40	TWO GENERATORS WEEKLY FOR FIVE MONTHS
Sn-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS	> 300	
Other			

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

September 1977, November 1978, September 1979, April and August 1980.

(Over 800 hours of closely supervised clinical Nuclear Medicine experience.)

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

a. NAME OF SUPERVISOR
Ralph G. Robinson, M.D.

b. NAME OF INSTITUTION
University of Kansas Medical Center

c. MAILING ADDRESS
39th & Rainbow

d. CITY
Kansas City, Kansas 66103

5. MATERIALS LICENSE NUMBER(S)
18-C054-02

6. PRECEPTOR'S SIGNATURE
Ralph G. Robinson

7. PRECEPTOR'S NAME *(Please type or print)*
Ralph G. Robinson, M.D.
Professor of Diagnostic Radiology
Head, Division of Nuclear Medicine

8. DATE
3/1/81

FORM NRC-313M-SUPPLEMENT B
(8-78)

FORM NRC-313M-SUPPLEMENT A (8-78) — U.S. NUCLEAR REGULATORY COMMISSION

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE
RODNEY CARL HARTMAN M.D.	MISSOURI

3. CERTIFICATION

SPECIALTY BOARD (A)	CATEGORY (B)	MONTH AND YEAR CERTIFIED (C)
AMERICAN BOARD OF RADIOLOGY	DIAGNOSTIC RADIOLOGY	JUNE 1981

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)	TYPE AND LENGTH OF TRAINING: SUPERVISED LABORATORY EXPERIENCE (Hours) (D)
a. RADIATION PHYSICS AND INSTRUMENTATION	UNIVERSITY OF KANSAS MEDICAL CENTER (RESIDENCY TRAINING) JULY 1977 - JUNE 1981	~100	20
b. RADIATION PROTECTION		20	10
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY		20	5
d. RADIATION BIOLOGY		25	-
e. RADIOPHARMACEUTICAL CHEMISTRY		35	10

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

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Mo-99	2 Ci	UNIVERSITY OF KANSAS MEDICAL CENTER	FIVE MONTHS	GENERATOR
Tc 99m	30 mCi			DIAGNOSTIC
Ga 67	5 mCi			DIAGNOSTIC
I 131	200 mCi			THERAPY
Xe 133	15 mCi			DIAGNOSIS
Cr 51	.5 mCi			DIAGNOSIS