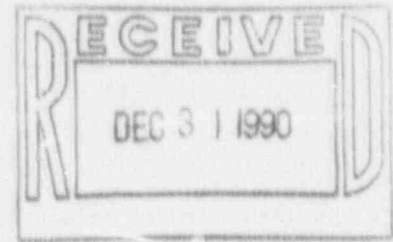




105 Wall Street  
Poteau, OK 74953  
918-647-8161



December 21, 1990

Mr. Bill Beach, Director  
Div. of Rad. Safety  
U.S.N.R.C., Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 74012

RE: License No. 35-16700-01  
Docket: 30-11490/90-01

This is in response to your November 30 correspondence concerning the November 1 inspection evaluation. Each response uses your numbering system.

1. The Radiation Safety Committee had a special Teleconference meeting on August 30, 1990 with our physicist, Michael Morris to consider the approval of John Forsythe, M.D. as the new R.S.O. The minutes were at the Physicist's office and had not been typed during the N.R.C. inspection. The amendment request to add Dr. Forsythe as a radioactive material user and as the R.S.O. was sent to Washington, D.C. by mistake. See attachments #1 and #2.
2. We admit using the dose calibrator on the dates listed. Michael Morris, the Hospital physicist told us by phone on 3/28/88 that the electronic adjustment performed by the vendor would not change the response time (linearity) or the geometry of the system but that he was unable to make an accuracy test until 4/4. All three tests were done one week later, on April 4.

On March 28, we had several nuclear scans that had been delayed while the calibrator was being repaired. While those scans were not for "life threatening" conditions, this Hospital tries to offer the best diagnosis to patients as promptly and as accurately as possible. We made a decision, after our conversation with the physicist, to proceed with the nuclear studies prior to the tests being done.

3. We acknowledge the accuracy of your statement that the dose calibrator linearity was not being tested down to 10 uCi prior to October 6, 1989. We were not aware that we had agreed to test to that lower limit prior to that date. We began testing the unit

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Mr. Bill Beach  
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December 21, 1990

down to 10 uCi on October 6, 1989 because we knew that we would have to begin testing to that lower limit eventually anyway.

4. The physicist's copy of the sealed source leak test dated April 13, 1989 is attachments #3 and #4.
5. Contrary to your comments, both exposures had been investigated. The investigations are recorded on the respective film badge reports as was observed by your inspectors. Those investigations were reviewed by the Committee and initialed by the R.S.O. and by the Physicist. The investigations state that the individual who got those two exposures was not placing her film badges into the holder correctly. The minutes of the R.S.C. meeting do not restate those findings.

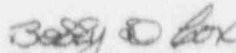
COMPLIANCE WILL BE COMPLETE:

1. An amendment request to make Dr. Jasser the R.S.O. has been submitted to your office. If you approve that request, item #1 should be resolved.
2. We regret this error. It will not happen again.
3. The dose calibrator has been linearity calibrated down to 10 uCi since October 6, 1989.
4. Completed.
5. Investigations of exposures exceeding A.L.A.I.A. limits will continue to be reviewed by the R.S.C. during committee meetings. Those reviews will henceforth, always be entered into the recorded minutes.

If item #1 is resolved by your office to make Dr. Jasser the R.S.O., full compliance with your recommendations and with our license conditions has been met.

If additional information is needed, please first contact our physicist, Michael Morris at (918) 372-4229.

Sincerely,

  
Bobby D. Cox  
Administrator &  
Chief Executive Officer

ATTACHMENT #1

RADIATION SAFETY COMMITTEE  
EASTERN OKLAHOMA MEDICAL CENTER  
AUGUST 30, 1990

The Radiation Safety Committee met by teleconference at 1:45 P.M.

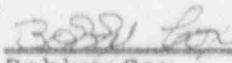
MEMBERS PRESENT


- |                              |                             |
|------------------------------|-----------------------------|
| 1. Bobby Cox, Administrator  | 2. Pam Eidschun, Nuc. Med.  |
| 3. Michael Morris, Physicist | 4. Jana Shadwick, Radiology |

The special meeting was called to order by Mr. Morris for the purpose as considering the addition of John Forscythe, M.D. to the nuclear license as a Radioactive Material user and to replace Dr. Davenport as the R.S.O.

1. Mr. Morris said he knew Dr. Forscythe in the late 1970s at Doctors' Hospital in Tulsa. He said that Dr. Forscythe was an authorized user and the Radiation Safety Officer on that license.
2. Mr. Cox asked Ms. Shadwick to call Doctors' Hospital to confirm the statement and to determine their NRC license #.
3. Mr. Morris recommended that the request to add Dr. Forscythe as a radioactive material user and as the R.S.O. be approved and that an amendment request to the N.R.C. be submitted today with the request. The motion passed unanimously.
4. Mr. Morris dictated an amendment request to the Administration Secretary. The original is to be signed by Mr. Cox. A copy is be retained in the records.
5. Mr. Morris said the amendment request should be routine and disposed of quickly by the N.R.C.

The meeting adjourned at 1:58 P.M.

  
\_\_\_\_\_  
Bobby Cox  
Administrator

  
\_\_\_\_\_  
Michael Morris  
Radiation Physicist



August 30, 1990

U.S. Nuclear Regulatory Commission  
c/o Document Management Branch  
Washington, D.C. 20555

RE: NRC License # 35-16700-01  
Region 4 NRC

Dear Licensing Commission:

Please amend this license to add John T. Forsythe, M.D., to this license as a Radioactive material user and as the Radiation Safety Officer.

Dr. Forsythe is currently licensed at Doctors Hospital, NRC License # 35-17926-02, Tulsa, Oklahoma.

If there are any questions, please contact me.

Sincerely,

*Jana Shadwick*  
Jana Shadwick, Director  
Radiology Department

*9009060112 4p.*

ATTACHMENT #3

SEALED SOURCE INVENTORY AND  
LEAK TEST RECORD

LOCATION: Eastern Oklahoma Medical Center  
 DATE TEST PERFORMED: April 13, 1989 PERSON DOING TEST: Michael Morris

SOURCE #1 Co-137 TYPE OF SOURCE Sealed  
 ACTIVITY 201 uCi ON DATE 1/25/80  
 SOURCE #2 \_\_\_\_\_ TYPE OF SOURCE \_\_\_\_\_  
 ACTIVITY \_\_\_\_\_ ON DATE \_\_\_\_\_  
 SOURCE #3 \_\_\_\_\_ TYPE OF SOURCE \_\_\_\_\_  
 ACTIVITY \_\_\_\_\_ ON DATE \_\_\_\_\_

TEST INSTRUMENT MAKE: Abbott  
 MODEL: 111 SERIAL: 02B-0112

TYPE OF MEASUREMENT	NUCLIDE #1	NUCLIDE #2	NUCLIDE #3
CROSS CPM	354		
BRG CPM	343		
NET CPM	<260 ± 79		
NET DPM (NET CPM/EFFICIENCY)	<250 ± 749		
NET uCi (NET DPM / 2.2 x 10 <sup>6</sup> )	<210 ± 3 x 10 <sup>-4</sup>		

INVENTORY STATUS  
 COMMENTS:

ALL SOURCES GREATER THAN 100 uCi MUST BE LEAK TESTED  
 ACCEPTABLE LIMIT IS LESS THAN 0.005 uCi

"This is a copy"  
 Michael Morris

## GAMMA WELL EFFICIENCY TEST

LOCATION for Eastern Oklahoma Med. CenterMAKE Abbott MODEL 111 SERIAL 02B-0112DATE OF TEST April 13, 1989

## ANALYZER SETTINGS:

BASELINE: 0.5 WINDOW 9.5COARSE GAIN 2.00 FINE GAIN — VOLTAGE — TIME 1 min

## STANDARD

NUCLIDE: Cs-137 TYPE OF SOURCE rodORIGINAL ACTIVITY 0.11 uCi ON DATE 4/66CURRENT ACTIVITY 0.081 uCi (a)

## OBSERVED COUNTS:

1. 193162. 194673. 190144. 19369SUM= 77166AVE= 19291BKG= .343 (b)NET AVE= 18898 (c)Net cpm (c) /  $2.2 \times 10^6$  dpm  $\times$  uCi (a) = Efficiency Factor18898 (c) / ( $2.2 \times 10^6$  dpm  $\times$  0.081 (a)) = 10.5%Minimum Detectable Activity (MDA) =  $3 / \sqrt{2 \times \text{BKG}}$  (b)MDA =  $3 / \sqrt{2 \times 343}$  = 79 NCPM"This is a Copy"  
Michael Thomas