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HOSPITAL

1606 North Seventh Street

Terre Haute, IN 47804-2780

812-238-7581, Imaging Services

facsimile transmittal

To: USNRC, Region III **Fax:** 630-515-1078

From: Union Hospital (License #13-16457-01) **Date:** 8/8/2008

Re: License Amendment Request of 05/28/08 **Pages:** 2

CC: Rasiklal Ganatra, M.D., RSO **Control #** 317218

Urgent For Review Please Comment Please Reply Please Recycle

Ms. Simmons, per our phone conversation today the attached letter is provided.

The amendment request has been assigned control # 317218.

Thank you for your assistance.

Dean A. Taylor, M.S.
 Radiation Safety Consultant
 to Union Hospital, Inc.
 812-238-7184

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1606 North Seventh Street
Terre Haute, IN 47804-2780
(812) 238-7000

August 8, 2008

Nuclear Materials Licensing Branch
Attn: Ms. Toye Simmons
United States Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

RE: NRC Material License
No. 13-16457-01
Control # 317218

Dear Ms. Simmons:

Per our phone conversation of earlier today, the following information is provided to amplify our most recent amendment request. The PET Imaging center located at 1532 North Seventh Street, Terre Haute, Indiana 47807-1008 conducted 663 PET Scans in 2007 (or 2.65 patient per day). The center is only open Monday through Friday, 7:00 a.m. to 3:00 p.m. To the west of the hot lab and patient dosing room is a landscaping berm, bordered by a sidewalk. Beyond the sidewalk is a driveway. The landscaping consists of closely spaced ground cover, shrubs and trees. From the sidewalk there is a minimum distance of 12 feet to the side of the building closest to the patient dosing room. There is no seating of any type on or near the sidewalk.

Based on the above, we have concluded that no member of the general public is likely to receive greater than 100 mrem/year from the operation of the PET Imaging Center. It is assumed that the highest dose (2 - 5 mrem) would be received by a groundskeeper who would spend one day per year in the area, spreading mulch around the landscaping. The dose equivalent was derived as follows: a dose rate of (1.5 mR/hour) X (40 min/patient) X (4 patients/day) = 4 mR/day.

If you have any questions regarding this information please contact our Radiation Safety Officer, Rasiklal Ganatra, MD at (812) 238-7581 or Dean Taylor our Radiation Safety Consultant at (812) 238-7184.

Sincerely,

A handwritten signature in black ink, appearing to read "Dean A. Taylor". The signature is fluid and cursive, written over a white background.

Dean A. Taylor, M.S.
Radiation Safety Consultant