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union

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:** 6/11/2008

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

CC: Rasiklal Ganatra, M.D., RSO **Control #** 317145

Urgent For Review Please Comment Please Reply Please Recycle

Ms. Simmons, per our phone conversation today the following information is provided. Union Hospital submitted a recent license amendment application dated May 08, 2008, requesting that the old radioactive waste store room be released for unrestricted use. The environmental survey results were provided in "counts per minute" with no information on the meter's counting efficiency. Attached, please find counting efficiency calculations for this instrument (a Ce-137 calibration source was used). Also please note that the cover letter from Beacon X-Ray Testing to Mr. David Doerr (submitted with the application) contains erroneous dates and that the actual survey report that followed is correctly dated. The amendment request has been assigned control # 317145.

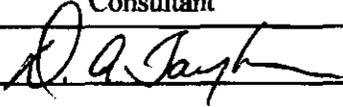
Thank you for your assistance and I apologize for the errors and omissions.

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

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Union Hospital, Inc
1606 North Seventh Street
Terre Haute, Indiana 47804-2780

Counting Efficiency Calculation for Ludlum Model 2221 Single Channel Analyzer (S/N: 71251)					
Meter Calibration Date:		April 24, 2008		Cal Source: Amersham ¹³⁷ Cs	
Efficiency Calculation Date:		June 11, 2008		Cal Activity: 0.0045 μ Ci	
Trial #	Background Count (2 min/trial)	Source Count (2 min/trial)	Cal Date: June 01, 1988		
			Current Activity: 6292 dpm		
1	202	561	Report prepared by: Dean A. Taylor, M.S. Radiation Safety Consultant 		
2	192	525			
3	200	544			
4	198	552			
5	190	580			
Mean	196.4	552.4			
cpm	98.2	276.2			
$Eff^1 = 6292 \text{ dpm} / (276.2 - 98.2) \text{ ccpm} = 35 \text{ dpm/ccpm}$					
Notes regarding environmental survey conducted May 07, 2008:					
	Survey Point	Net count (ccpm)	Approximate dpm equivalent	Comments	
	A	150	5250	*	
	B	250	8750	*	
	F	50	1750	•	
* The West and North walls are composed of a combination of poured concrete and cinder block construction. These materials must contain trace amounts of naturally occurring radioactive material as they demonstrate higher background readings even in areas of the building where RAM has never been used or stored.					

This information is provided to amplify our amendment request for NRC License #13-16457-01, mail control # 317145, and dated May 08, 2008