



## TELECOPY TRANSMITTAL

DATE: 3-31-07  
TO: Bill Reichhold Materials Licensing  
US NRC  
FAX NUMBER: 630-829-9782  
FROM: Patrick Byrne  
RE: St Joseph Hospital

COMMENTS: Bill,  
Here is the closeout that I did at  
St Joseph Hospital in Huntingburg, Indiana.  
I have also included documentation  
of the disposal of the sealed  
sources. Call me if you have  
any questions. Patrick

This transmittal consists of 8 pages (including transmittal cover sheet).  
Please contact one of our offices if you have any questions or problems with  
this transmittal.

Our FAX numbers are indicated below.

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Ann Arbor, MI 48103  
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### **Close-out survey of Saint Joseph Hospital, Huntingburg, Indiana**

**Performed by: Patrick J. Byrne, D.A.B.R., C.H.P.  
Medical Physics Consultants, Inc.**

Wipe tests for removable radioactive contamination were taken on 01/30/07 and analyzed in a Ludlum Model 243 (S/N: 145366) Shielded Well Scintillator coupled to a Ludlum Model 2200 (S/N: 138705) Scaler Ratemeter. A window of 50 to 400 keV was used to analyze the wipes. The efficiency of this system for Cobalt-57 is 1.17 dpm/cpm.

The radiation levels survey was performed on 01/30/07 by Patrick Byrne, using a Ludlum Model 14C Geiger-Muller survey meter (S/N: 182928) with a pancake probe. The meter was calibrated on 08/17/06. The range used for the radiation level survey was 0.0 to 0.2 mR/hr.

#### **Visual Inspection**

The area was visually inspected to ensure that all radioactive waste had been removed. No radioactive material was located in the area.

#### **Radiation Level Survey**

No area demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

#### **Sealed Sources**

All sealed sources were disposed of on 01/24/07 through Adco Services, Incorporated. The sources were transported by Adco to Bamwell, South Carolina for burial. A copy of the Adco disposal documents is enclosed.

### Removable Contamination Survey Results

Wipe samples were counted in a Ludlum Model 243 Shielded Well Scintillator (S/N: 145366) coupled to a Ludlum Model 2200 Scaler Ratemeter (S/N: 138705). The efficiency of this system for Cobalt-57 is 1.17 dpm/cpm.

Background: 264 counts per minute

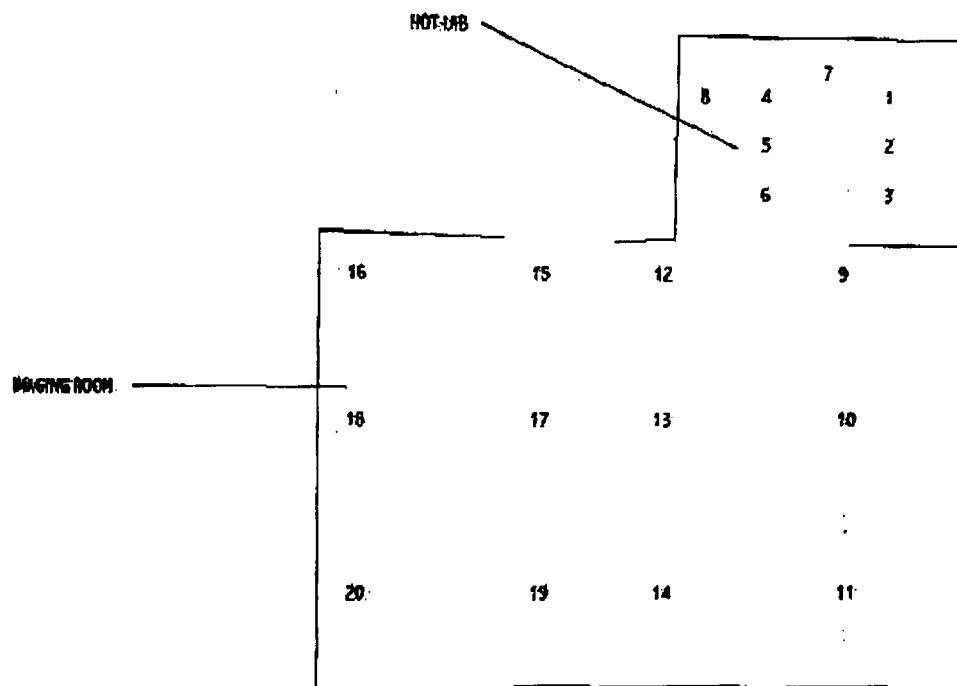
Wipe Number	Gross counts per minute	Net counts per minute	Disintegrations per minute
1	277	13	15.21
2	290	26	30.42
3	279	15	17.55
4	294	30	35.10
5	290	26	30.42
6	301	37	43.29
7	310	46	53.82
8	292	28	32.76
9	295	31	36.27
10	278	14	16.38
11	297	33	38.61
12	288	22	25.74
13	280	16	18.72
14	303	37	43.29
15	294	30	35.10
16	311	47	54.99
17	317	53	62.01
18	271	7	8.19
19	309	45	52.65
20	280	16	18.72

\*Please refer to the attached survey map for wipe locations.

Maximum removable contamination occurred in area 17. Gross count rate = 317 cpm/100cm<sup>2</sup>. Net count rate (gross minus background) = 317 - 264 = 53 cpm/100cm<sup>2</sup>. Net removable disintegrations per minute = 53 cpm/100cm<sup>2</sup> x 1.17 dpm/cpm = 62 dpm/100cm<sup>2</sup>.

### Conclusion

As of 01/30/07, all radioactive materials have been removed from the area of use and no removable contamination is present.



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UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

ISOTOPES REPORT

For Manifest # 07-0011 S  
ADCO SERVICES, INC.

Isotope	Total Activity (mCi)
Co-57	3.2220E+00
Cs-137	1.9720E-01

TOTAL P.05





