



**CHRISTIANA CARE**  
HEALTH SERVICES

501 West 14th Street  
PO Box 1668  
Wilmington, Delaware 19899-1668  
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RECEIVED  
REGION I

Radiation Safety Office

2007 JAN 25 PM 1:04

Joseph Solge 428-2148  
FAX # 428-4527

January 23, 2007

*NMSB1*

U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

*03001303*

Re: NRC License 07-12153-02

Dear Licensing Assistance Team:

I am writing to ask that you remove Items No. 6 E, 7 E, and 8 E from our license No. 07-12153-02. We no longer perform radioimmunoassay tests at our institution and have no plans to do so in the future.

I have attached a copy of the decommissioning survey of the last area in the Christiana Hospital Laboratories where these studies were performed. The survey is of the Special Chemistry Laboratory and the associated radioactive waste storage closet. Both areas were found to be free of radioactive contamination and were released for unrestricted use in December 2000.

Any remaining low-level radioactive waste was transferred to the radioactive waste storage area in the lower level of the Christiana Hospital used by the Department of Nuclear Medicine. That remaining package was held for decay-in-storage and then discarded after a minimum of ten half lives of 125Iodine, that is after a minimum of 600 days in storage. As with all packages leaving this storage area, it was surveyed for external radiation levels prior to disposal.

If you have any questions about this request, or need any further information, please contact me at either of the numbers listed above. I can also be reached at [jsolge@christianacare.org](mailto:jsolge@christianacare.org).

Thank you very much for your assistance with this matter.

Sincerely,

Joseph F. Solge, Jr.  
Radiation Safety Officer

*140003*

NMOS/ROIN MATERIALS-002

Approved by:

A handwritten signature in black ink, appearing to read 'Patrick Grusenmeyer', with a long horizontal flourish extending to the right.

Patrick Grusenmeyer, ScD  
Vice President  
Helen F. Graham Cancer Center

JFS/jfs

Cc: Anthony Gialloreto  
Cynthia Knotts  
Vidya Sagar, MD

Decommissioning of Special Chemistry  
December 19, 2000

We conducted the decommissioning of the Special Chemistry Laboratory on December 19, 2000. Wipe tests and Surveys were conducted on twenty-four sites within the laboratory and the associated radioactive waste storage area. Sites were selected based upon past use and radioactive material storage. The following table outlines the sites and testing results.

Site Number	Site Description	Survey, mr/h	Wipe, cpm
	Room Background	0.03	26
1	Water Bath	<0.02	13
2	Water Bath water	N/A	20
3	Bench space adjacent to water bath	0.03	23
4	Silencer H-103NA centrifuge	<0.02	12
5	Bench space adjacent to centrifuge	<0.02	19
6	Decanting sink	<0.02	18
7	Drainboard adjacent to sink	0.03	19
8	Bench adjacent to sink	<0.02	20
9	Gamma counter	<0.02	20
10	Bench left of gamma counter	<0.02	19
11	Bench right of gamma counter	<0.02	22
12	Fisher refrigerator, back of lab	<0.02	20
13	Beverage-Air refrigerator, back of lab	<0.02	15
14	Fisher Isotemp refrigerator	<0.02	17
15	Front Log-In area	<0.02	18
16	Front Drop-Off area	<0.02	12
17	Fume hood	<0.02	19
18	Radioactive Trash bin under counter	<0.02	17
19	Storage closet door	<0.02	19
20	Storage closet palette	<0.02	16
21	Storage closet floor	<0.02	15
22	Storage closet walls	<0.02	18
23	Storage closet wooden drain cover	<0.02	20
24	Storage closet light switch	<0.02	20

Please note the following:

- Survey meter: Victoreen s/n 493, last calibrated 3/7/2000. Check source reading 3.0 mr/h (acceptable range:2.0-3.5 mr/h) on 12/19/2000.
- Gamma counter readings are in cpm. <sup>125</sup>I counting efficiency = 78.6% 12/19/2000. To convert cpm to dpm, multiply cpm by 1.27.
- Wipe test counts are well within the allowable limit of 157 cpm (200 dpm).

**Conclusion:** The Special Chemistry Lab of the Department of Pathology and Laboratory Medicine, L209, and the Radioactive Waste Storage Area have been found to be free of any contaminating radioactivity and are free for unrestricted use.

Steven R. Johnson, M.S.  
Clinical Biochemist  
December 19, 2000

This is to acknowledge the receipt of your letter/application dated

1/23/2007, and to inform you that the initial processing which includes an administrative review has been performed.

Amended. 07-12153-02 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 140003.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.