

Children's Hospital of Michigan

DMC DETROIT MEDICAL CENTER

October 1st 2015

United States Nuclear Regulatory Commission
Region III, Materials Licensing
2443 Warrenville Road Suite 210
Lisle, IL 60532-4352

**RE: Decommission of Waste Storage Area and Additional Information Requested
NRC License No. 21-03298-05**

Dear Mr. Knull:

We are providing the additional information requested to decommission the waste storage area located at Children's Hospital of Michigan.

The waste storage area is made of concrete reinforced walls and floors. Records indicate that the following nuclides were stored in the waste storage room in the past. No nuclides have been stored in this area since 2009. Since this a storage room, different quantities of nuclides were stored at different times. The last known disposal dates and quantities are listed below.

List of nuclides stored: Cr-51, P-32, I-125, S-35, C-14, H-3

No sealed sources were stored in this area; therefore, no sealed source inventory required.

No liquid waste was stored or disposed of in this area.

Last disposal of C-14

C-14 scintillation vials (combined with H-3 scintillation vials) disposal occurred on 10/15/02; activity <250 uCi; picked up by ADCO Services.

C-14 solid waste (combined with S-35 and H-3 solid waste) disposal occurred on 11/21/00; activity 7 mCi; picked up by ADCO Services.

Last disposal of S-35

S-35 scintillation vials (combined with H-3 scintillation vials) occurred on 2/12/98; activity 2.0000E-01; picked up by PERMA FIX

S-35 solid waste (combined with C-14 and H-3 solid waste) occurred on 11/21/00; activity 7 mCi; picked up by ADCO Services

Last disposal of H-3

H-3 scintillation vial disposal occurred on 12/07/08; activity 2.5000E-01 mCi; picked up by ADCO Services

H-3 solid waste disposal occurred on 12/07/08; activity 2.5000E-01 mCi; picked up by ADCO Services

Last disposal of Cr-51, P-32, and I-125

C-51, P-32, I-125 scintillation vials disposal occurred 12/10/09; less than 5 mCi – decay in storage

C-51, P-32, I-125 solid waste disposal occurred on 7/10/08; less than 5 mCi – decay in storage

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Liquid Scintillation Analyzer

Wipe tests analyzed with the liquid scintillation counter located in room 3X74 with a 0-2000 keV (wide) window:

Packard 1500 TRI-CARB

Liquid Scintillation Analyzer

S/N: 85326

The conversion factor used is 3.0 dpm/cpm

The system was calibrated on 11/5/2014

Survey Meter

Surveys were performed with Ludlum GM survey meter (s/n 113520) with pancake probe. Survey meter was calibrated on 4/10/14 with a calibration due date of 4/10/15.

No radioactive materials or storage units remain in this area and area is free from contamination.

Thank you for your cooperation. If you have any questions or require additional information, please contact our medical physics consultant and RSO, Cari Dzanbazoff at 734-662-3197 or e-mail cdz_mpc@comcast.net.

Sincerely,



Larry M. Gold

Chief Executive Officer

Children's Hospital of Michigan

cc: Cari Dzanbazoff, Radiation Safety Officer
Dennis Gates, Chair, Radiation Safety Committee

Taylor, Tiresha

From: Null, Kevin
Sent: Wednesday, October 21, 2015 2:24 PM
To: Tomczak, Tammy
Cc: Taylor, Tiresha
Subject: FW: NRC Letter
Attachments: CHM Additional Information for Admendment Request 9-15 .pdf;
NRCform665VHSchildrensHOSP102015.docx

The attached document dated October 1 needs to get into ADAMS. I have attached a 665. Please let me know the ML number so I can add it to the tie down condition ASAP. I plan to mail this to the office tomorrow. Please hold the 665. This is for C/N 588135.

Thanks,

Kevin

From: Gates, Dennis [mailto:DGates@dmc.org]
Sent: Thursday, October 01, 2015 3:10 PM
To: Null, Kevin <Kevin.Null@nrc.gov>
Cc: 'Cari Dzanbazoff' <cdz_mpc@comcast.net>
Subject: [External_Sender] NRC Letter

Please find attached - if you have any questions, please let me know.

Thank you
Dennis Gates
Chair Radiation Safety Committee

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