

# PETNET Solutions

February 12, 2015

Patricia Pelke  
Chief – Materials Licensing Branch  
U.S. NRC Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

**Re: Notice to Terminate Radioactive Material Licenses 41-32720-03  
(Production) and 41-32720-04MD (Nuclear Pharmacy) – PETNET  
Solutions, Inc. St. Louis, MO Facility**

Dear Mrs. Pelke,

The purpose of this letter is to notify you, in accordance with 10 CFR 30.36(d) (2), of PETNET Solutions, Inc.'s intent to terminate both the nuclear pharmacy and production RAM licenses stated above. PETNET has decided to permanently close the facility and, effective January 30, 2015, all operations have ceased. The closure plan for each license will be addressed separately below.

Radioactive Material License (Nuclear Pharmacy) 41-32720-03

In order to facilitate the decommissioning process, PETNET respectfully requests to transfer any and all sealed sources (Attachment A) to the production license 41-32720-03 and immediately terminate the nuclear pharmacy RAM license. While tritium (H-3) is listed on this license, it should and is actually associated with the production license. The H-3 is captured in QMA filters during synthesis prior to transferring the F-18 to the nuclear pharmacy license. These waste items are currently packaged in plastic bags within 55-gallon steel drums and securely stored within the cyclotron room.

Since all remaining radionuclides have a half-life of less than 110 minutes, it is a certainty that there will be no remaining contamination after a three-week period. Thus, the task of removing PETNET-owned equipment shall commence on February 23, 2015 and all items shall be surveyed and documented. Documentation shall be available for NRC review, upon request. The nuclear pharmacy area shall be addressed under the decommissioning plan for the production license.

Radioactive Material License (Production) 41-32720-04MD

PETNET plans to decommission the facility and release the space back to the landlord, St. Louis University Hospital (SLUH). The decommissioning plan will be inclusive to all PETNET licensed areas which consist of the Production area, Pharmacy area and the cyclotron vault. PETNET and SLUH are reviewing the contract proposals to perform the initial assessment, remediation, and final status

PETNET Solutions, Inc.  
A Siemens Company

810 Innovation Drive  
Knoxville, TN 37932

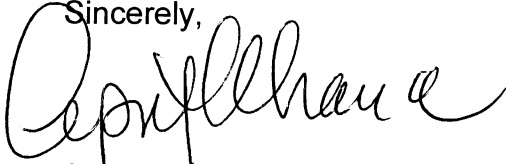
Tel: (800) 738-0488  
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survey. Upon SLUH's selection of a decommissioning vendor, PETNET will submit the Decommissioning Plan describing the removal/disposal of the cyclotron, sealed sources, activated materials and the methodology of the Final Status Survey. Decommissioning activities will begin upon NRC's approval of the Decommissioning Plan.

Should you have any questions please contact me at the numbers listed below or Ramón Davila at 865-332-6594 or [ramondavila@siemens.com](mailto:ramondavila@siemens.com).

Sincerely,

A handwritten signature in black ink, appearing to read 'April Chance', written over the word 'Sincerely,'.

April Chance, CHP  
Senior Manager of Radiation Protection/Environment, Health & Safety  
Molecular Technologies Division of  
Siemens Molecular Imaging  
(PETNET, Cyclotrons and Sources)  
810 Innovation Drive  
Knoxville, TN 37932  
(865) 308-3887 mobile  
(865) 218-6355 office  
[april.chance@siemens.com](mailto:april.chance@siemens.com)

cc: Tigran Sinanian, RPh, BCNP, Sr. Director of Manufacturing Operations  
Ramón Davila, MBA, RRPT, Regional Health Physicist  
John Beyer, RPh, RSO, Regional Operations Director

Attachment A

PETNET St. Louis - Sealed Source Inventory

(As of February 12, 2015)

**PETNET St. Louis Sealed Source Inventory**

<b>#</b>	<b><u>Isotope</u></b>	<b><u>Activity</u></b>	<b><u>Source Serial Number</u></b>
1	<b>Na-22</b>	<b>200 µCi</b>	<b>1004-38-1</b>
2	<b>Cs-137</b>	<b>197.1 µCi</b>	<b>1615-51-11</b>
3	<b>Na-22</b>	<b>209.7 µCi</b>	<b>1371-91-1</b>
4	<b>Na-22</b>	<b>1.945 µCi</b>	<b>838-4</b>
5	<b>Cs-137</b>	<b>113.2 nCi</b>	<b>757-48-6</b>

From: (865) 218-2595  
April Chance  
810 Innovation Drive  
Knoxville, TN 37932

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Patricia Pelke  
US Nuclear Regulatory Comm. RIII  
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LISLE, IL 60532

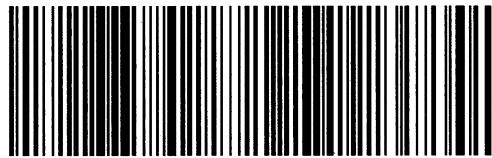
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