



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
2100 RENAISSANCE BLVD.  
KING OF PRUSSIA, PA 19406-2713

October 7, 2016

Paul Kempinski, President  
Nemours – Alfred I. duPont Hospital for Children  
1600 Rockland Road  
Wilmington, DE 19803

SUBJECT: ACCEPTANCE OF YOUR NOTIFICATION OF MANAGEMENT SIGNING  
AUTHORITY AND WITHDRAWAL OF YOUR REQUEST FOR AMENDED  
LICENSE, MAIL CONTROL NO. 591457

Dear Mr. Kempinski:

This concerns: 1) the notification of the transfer of management signing authority to you from Mr. Proujansky dated July 6, 2016; and 2) the request for an amended license to add a new PET facility. With regards to the notification of the management signing authority, we have no further questions on this issue and have updated our records. Because your Radiation Safety Officer and Facilities Management informed us that you are not currently able to provide the additional information required to complete the requested action for the PET facility, we understand that this request is withdrawn pending completion of the shielding design. In particular, as discussed with your staff on October 7, 2016, it appears that the walls of the new area were designed with shielding for MRI only with M36 silicon-steel; which provides very little attenuation for 511 keV PET radionuclides (assuming the steel component is less than 0.4 mm steel as shown in the literature). The cement currently present in the floor and ceiling appears sufficient as shielding; however all walls, with the exception of the lead shielded wall (E1) appear insufficient. Therefore, in order to support a future request to add this PET/MRI facility, please submit the additional shielding that is (or will be) added to all walls surrounding the PET facility, including all interior and exterior walls. In addition, please describe the shielding that is (or will be) added to the PET/MRI door in your request.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web Site at <http://www.nrc.gov/reading-rm/adams.html>.

P. Kempinski

Thank you for your cooperation.

Sincerely,

***/RA/***

Penny Lanzisera, Senior Health Physicist  
Medical Branch  
Division of Nuclear Materials Safety  
Region I

License No. 07-16199-02  
Docket No. 03019939  
Mail Control No. 591457

cc: Kelly A. Sciole, CNMT, Radiation Safety Officer

P. Kempinski

Thank you for your cooperation.

Sincerely,

/RA/

Penny Lanzisera, Senior Health Physicist  
Medical Branch  
Division of Nuclear Materials Safety  
Region I

License No. 07-16199-02  
Docket No. 03019939  
Mail Control No. 591457

cc: Kelly A. Sciole, CNMT, Radiation Safety Officer

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**SUNSI Review Complete: PLanzisera**

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