

**From:** "McWey, Russ" <mcweyre@virginiahospitalcenter.com>  
**To:** "Joseph Nick" <JLN@nrc.gov>  
**Date:** Wed, Feb 23, 2005 10:39 AM  
**Subject:** RE: License Amendment Request (License # 45-01099-01, docket#03003303, Control# 136020)

Mr. Nick,

I will use your e-mail question as a template for my answers.

1. Regarding the floor plan for the new Nuclear Medicine Department area (enclosed with your letter dated November 4, 2004), what (if any) areas are located above or below the areas where licensed material is used/stored? Have the new areas been designed to minimize doses to members of the public above or below?

Answer:

The department of Nuclear Medicine was moved to its new location on October 30, 2004.

The department is located on the Ground floor with only the parking garage below. Above our department is the Outpatient Lab. The Hot lab is located centrally, surrounded by a work area for the Nuclear technologist and three hallways. We have placed a TLD monitor on the outer wall of the Hot lab that backs up to the leaded area where doses are stored. This should allow us to monitor any dose the technologists may receive in the area. All doses are stored in proper lead containers behind a lead glass barrier.

2. What shielding is incorporated into the design of your new Nuclear Medicine Department area (i.e., wall thickness) to minimize doses to the public?

Answer:

Our department is designed such that the entire department is a controlled area. There are double doors with posted signs to the main entrances of the department. We have placed monitoring TLD devices in several places in the department, as per our Physicist, to minimize the dose to the public and to other hospital staff must use the hallways. No additional shielding was used in our walls, since the scanning rooms are located along one hallway and separated by a hallway on both sides. We plan to add a Pet/CT scanner in the future, and will add shielding to that room when it is installed.

3. Are there any areas to be used for radioactive waste storage other than the hot lab?

Answer:

We have additional storage for waste located in a storage area, within a shielded barrel. We use this barrel to store needle containers until

they are decayed enough for disposal. The shielding on this barrel is 1/4" lead thickness. We are still using the original site of storage for long term isotopes, which is located within the old section of the hospital. The area is locked, posted and the items stored there are kept behind lead bricks.

4. When was the actual move date to the new area? Although you sent a letter notifying the NRC (dated August 12, 2004) regarding your impending move, did you request and receive an amendment before the new areas were used for activities authorized by your NRC license?

Answer:

As noted above the department was moved to the new location on October 30, 2004. We submitted a letter detailing the impending relocation to a new addition to the hospital to the NRC in August of 2004. We received notification of receipt for the letter on 8/12/2004. We subsequently received a letter from Mr. Brian Parker, dated September 29, 2004 indicating that there was no need to amend the license until the move actually occurred. It instructed us to immediately submit a letter documenting the details of the new department and a survey of the vacated area, as soon as the move occurred, which we did.

I hope this addresses your concerns. Please do not hesitate to contact me if you need any additional assistance.

Thank you for your assistance.

RM

Russell E. McWey  
Chief of Medical Imaging  
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**From:** "McWey, Russ" <mcweyre@virginiahospitalcenter.com>

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