



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

August 21, 2018

Nicholas Lannutti, M.S.
Radiation Safety Officer
Mercy Hospital Springfield
1235 E Cherokee St.
Springfield, MO 65804

Dear Mr. Lannutti:

In a letter dated July 9, 2018, Mercy Hospital Springfield submitted to the U.S. Nuclear Regulatory Commission (NRC) a request to amend its NRC license no. 24-00866-02. After review of the request, we have noted that additional information is needed to complete our review. Specifically, as you and I discussed on August 20 2018, please provide the following information:

1) Release of a location of use for unrestricted use – Mercy Hospital Springfield Whiteside:

- provide the most recent leak test results performed before the sealed sources were transferred to the main hospital.

2) Addition of an area of use at the main hospital – 1st floor temporary Cardiac Imaging:

- specify "outside" on the diagram;
- specify the direction of north;
- describe areas above and below the rooms of interest;
- provide dimensions for the rooms of interest or indicate the scale
- provide a detailed diagram of the hot lab indicating the location of radioactive waste, storage of radioactive material, receipt of radioactive material (work bench, L-block etc.), sinks, fume hoods, injection chair, etc.

3) Addition of an area of use at the main hospital – 2nd floor Cardiac Nuclear Medicine Department:

- label the diagram/s and mark the area of use on the general floor plan;
- describe each room (label each room and provide room numbers) where radioactive materials will be used and describe the purpose;
- describe all adjacent areas to the rooms of interest including "outside" areas;
- describe the access control to individual rooms (e.g. locked door);
- provide dimensions for the rooms of interest or the scale;
- describe areas/rooms above and below the rooms of interest;

- provide a detailed diagram of the hot lab indicating the location of radioactive waste, storage of radioactive material, receipt of radioactive material (work bench, L-block etc.), sinks, fume hoods, etc.

In your letter dated July 9, 2018, you also provided a shielding evaluation anticipating future expansion of your Radiation Protection Program including the potential use of positron emission tomography (PET) material at this area of use. As we discussed on August 20, 2018, please note that you will need to resubmit the information when you commit to expand your program.

4) Addition of a location of use – Branson Clinic:

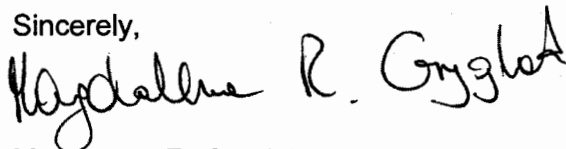
- describe the areas above and below the rooms of interest;
- provide dimensions of the injection room;
- describe the access control to individual rooms (e.g. locked door);
- provide a detailed diagram of the hot lab indicating the location of radioactive waste, storage of radioactive material, receipt of radioactive material (work bench, L-block etc.), sinks, fume hoods, etc.

To address comprehensively Items 2, 3, 4, please review guidance in NUREG 1556, Volume 9, Revision 2, Section 8.16. The document can be found at <https://www.nrc.gov/docs/ML0734/ML073400289.pdf>:

Please provide a written response to this letter by September 5, 2018. Your response should be signed and dated by an authorized personnel. You may submit your response via email to Magdalena.Gryglak@nrc.gov. Please reference control no. 609347 in your response.

We will resume our review once we receive your response. If you have any questions, please do not hesitate to contact me at 630-829-9875 or Magdalena.Gryglak@nrc.gov.

Sincerely,



Magdalena R. Gryglak
Health Physicist
Materials Licensing Branch

Gryglak, Magdalena

From: Gryglak, Magdalena
Sent: Tuesday, August 21, 2018 12:34 PM
To: 'nicholas.lannutti@mercy.net'
Subject: Request for Additional Information, NRC license no. 24-00866-02, Mercy Hospital Springfield
Attachments: 609347 Request for Additional Information.pdf

Good afternoon Mr. Lannutti,

As we discussed on 8/20/18, please review the attached letter.

Thank you

Magdalena R. Gryglak
US NRC, Region III
630-829-9878