

From: [Jason Kelly](mailto:Jason.Kelly@stjohn.org)
To: laura.smith7@stjohn.org
Cc: lsphysics@att.net
Subject: U.S. NRC Materials License #21-03210-01 - Request for Additional Information
Date: Friday, September 22, 2023 12:04:00 PM

Ms. Smith:

I have reviewed your response letter dated August 13, 2023, in reference to the request to renew U.S. Nuclear Regulatory Commission (NRC) Materials License No. 21-03210-01. Upon review, I identified the following areas in which additional or clarifying information is needed:

1. Your response did not include a shielding evaluation for your HDR Remote Afterloader Suite located at the Ascension Rochester Radiation Cancer Center. Please submit a complete description and shielding evaluation / survey report for this location. Identify the orientation of the HDR Remote Brachytherapy Afterloader Treatment Unit, including primary and secondary treatment locations. Provide shielding calculations identifying the type, thickness, and density of any necessary shielding to enable independent verification of shielding calculations. The calculations should include the workload assumptions used (including the number of exposures per day, time per exposure in minutes and number of workdays per week) and occupancy factors for adjacent areas. Please also identify the restricted area boundary in your facility diagram.
2. The submitted shielding evaluation / survey report for your HDR Remote Afterloader Suite located at your licensed facility at the Van Elsander Cancer Center did not account for the maximum source loading of 12 curies. Further, the shielding evaluation / survey report did not clearly identify the minimum distances to all adjacent areas, workload assumptions (including the number of exposures per day, time per exposure in minutes and number of workdays per week) and occupancy factors. Please also identify the restricted area boundary in your facility diagram.
3. Upon further review of your license application, I identified that your application for license renewal requests authorization for the Elekta, Inc. (formerly Nucletron Corp.) Model 136149A02 Flexitron HDR Remote Afterloading Brachytherapy Unit as well as the Elekta, Inc., (formerly Nucletron Corp.) Model 105.999 HDR Remote Afterloading Brachytherapy Unit. Though, your license currently authorizes only the Elekta, Inc., (formerly Nucletron Corp.) Model 136149A02 Flexitron HDR Remote Afterloading Brachytherapy Units. It appears that the reference to the Elekta, Inc., (formerly Nucletron Corp.) Model 105.999 HDR Remote Afterloading Brachytherapy Unit may be an artifact from a previous application that is now outdated. Please clarify your request, including a revised radioactive materials table for Items 5 and 6 of your application if necessary. If applicable, revise your Emergency Procedure to also include device specific instruction for both HDR Remote Brachytherapy Afterloader Units.

Please respond to this request in writing within 15 calendar days. Please refer to your U.S. NRC Materials License Number and Control Number 632441 in your response. If you have any questions, you may contact me at (630) 829-9737.

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