

Cardinal Health  
Quality & Regulatory  
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**CardinalHealth**

October 28, 2019

U.S. Nuclear Regulatory Commission  
Region III – Division of Nuclear Materials Safety  
2443 Warrenville Rd, Suite 210  
Lisle, IL 60532-4352

Re: Control # 613879 Clarification of Amendment Request for Radioactive Materials License 34-32780-04MD, Cardinal Health Radium-223 Manufacturing Services, Indianapolis, IN.

Licensing:

Cardinal Health 414, LLC (Radium-223 Manufacturing Services, hereafter Cardinal Health) is responding to an email request asking for additional information regarding our request increase radionuclide activities.

Please increase the Thorium-227 activity to 13 Ci with the same use as 9.A.

If you have any questions regarding this request, please contact me at 614.757.9586.

Sincerely,

Glenn Sullivan  
Corporate Radiation Safety Officer  
Director, Health Physics  
Nuclear & Precision Health Solutions

cc: Carra Roberts, RSO, Loc. 5889  
License File, Loc. 5889 (3)

## Song, Taehoon

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**From:** Sullivan, Glenn <glenn.sullivan@cardinalhealth.com>  
**Sent:** Monday, October 28, 2019 6:57 AM  
**To:** Parker, Bryan  
**Subject:** [External\_Sender] letters  
**Attachments:** 191028 request clarification for letter 190808.pdf; 191028 Radium distribution Rescind 190805.pdf

Here you go. Thanks for your help.



**Glenn P. Sullivan, MBA**  
Director, Health Physics NPS  
Corporate Radiation Safety Officer  
Nuclear & Precision Health Solutions  
7200 Cardinal Place West, Dublin, OH 43017  
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*Restorative, Learner, Achiever, Individualization, Harmony*

*ISFJ (The Defender).*

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Svenska: <http://www.cardinalhealth.com/en/support/terms-and-conditions-english.html>