

Cardinal Health
Nuclear Pharmacy Services
Quality & Regulatory
7000 Cardinal Place
Dublin, OH 43017
tel 614.757.4120
fax 614.652.4598



CardinalHealth

www.cardinalhealth.com/nps

August 1, 2017

Sara Forster
U.S. NRC - Region III
Radioactive Material Licensing
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: Additional Information for Radioactive Materials License 34-29200-01MD, Cardinal Health Nuclear Pharmacy Services, Dublin, OH.

Licensing / Ms. Forster:

Cardinal Health 414, LLC (Nuclear Pharmacy Services, hereafter Cardinal Health) would like to submit additional information concerning USP 797 remodels of our Laurel, DE and Swartz Creek, MI facilities.

1. Please confirm that any construction changes will not affect the air flow in the facility and associated effluent monitoring. In the alternative, please describe any changes in the air flow and how monitoring will be adjusted.

Cardinal confirms that the construction changes will not affect the air flow in the facility or the associated effluent monitoring.

2. Please discuss how the proposed "vestibule" areas may be labeled and maintained for "unrestricted use," providing a basis for that approach. If applicable, please discuss any changes, and provide updated facility diagrams as needed.

After construction is complete, the vestibules will be labeled in accordance with 10 CFR Part 20.

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

Sincerely,

Glenn P Sullivan
Corporate Radiation Safety Officer
Director, Health Physics
Nuclear Pharmacy Services

cc: License File, Loc. NRC (3)

John Alexander, RSO, Loc. 7002
Melissa George, RSO, Loc. 7010
Phillip Heim, RSO, loc. 7011
Matthew Svejck, RSO, Loc. 7013
Christie Holland, RSO, Loc. 7016
Mary Beth Baker, RSO, Loc. 7025
James Craig, RSO, Loc. 7028
Earl Robertson, RSO, Loc. 7030
Jay Simmons, RSO, Loc. 7088
Brian Porter, RSO, Loc. 7109
Dane Dishman, RSO, Loc. 7120
John A. Miller, RSO, Loc. 7128
Bobby Bartlett, RSO, Loc. 7172
Mark Peters, RSO, Loc. 7200
Nate Johnson, RSO, Loc. 7201
Thomas Sundria, Loc. 7231
Seung Yeo, RSO, Loc. 7232
Micah Rydman, RSO, Loc. 7306
David Webb, RSO, Loc. 7341
Justin Goodnite, RSO, Loc. 7545

Song, Taehoon

From: Forster, Sara
Sent: Tuesday, August 01, 2017 2:05 PM
To: Song, Taehoon; Pavon, Sandy; Sandrik, Lauren
Subject: FW: RE: RE: Additional Information Request for Cardinal Health, NRC Lic. No. 34-29200-01MD, CN594669
Attachments: 170801 Deficiency response MI and DE remodel.pdf

Please scan in and return to me. Thank you! - Sara Forster x9892

From: Sullivan, Glenn [mailto:glenn.sullivan@cardinalhealth.com]
Sent: Tuesday, August 01, 2017 2:03 PM
To: Forster, Sara <Sara.Forster@nrc.gov>
Subject: [External_Sender] RE: RE: Additional Information Request for Cardinal Health, NRC Lic. No. 34-29200-01MD, CN594669

Here you go.

g



Glenn P. Sullivan, MBA
Director, Health Physics NPS
Corporate Radiation Safety Officer
7200 Cardinal Place West, Dublin, OH 43017
614.757.9586 dir | 614.652.4838 fax

From: Forster, Sara [mailto:Sara.Forster@nrc.gov]
Sent: Tuesday, August 01, 2017 1:58 PM
To: Sullivan, Glenn <glenn.sullivan@cardinalhealth.com>
Cc: Hill, Dan (NPS Q&R) <dan.hill01@cardinalhealth.com>
Subject: RE: RE: Additional Information Request for Cardinal Health, NRC Lic. No. 34-29200-01MD, CN594669

[External Email]

Thank you for the update, Mr. Sullivan. The response to the first item sounds clear. I will call you at ~2:30 pm eastern to discuss the second item further.

Sara Forster

From: Sullivan, Glenn [mailto:glenn.sullivan@cardinalhealth.com]
Sent: Tuesday, August 01, 2017 12:53 PM
To: Forster, Sara <Sara.Forster@nrc.gov>
Cc: Hill, Dan (NPS Q&R) <dan.hill01@cardinalhealth.com>
Subject: [External_Sender] RE: Additional Information Request for Cardinal Health, NRC Lic. No. 34-29200-01MD, CN594669

Sorry I missed your call. Here are our responses. Please let me know if you need anything else or have questions and/or an official letter for response.

1. Please confirm that any construction changes will not affect the air flow in the facility and associated effluent monitoring. In the alternative, please describe any changes in the air flow and how monitoring will be adjusted.

Cardinal confirms that the construction changes will not affect the air flow in the facility or the associated effluent monitoring.

2. Please discuss how the proposed "vestibule" areas may be labeled and maintained for "unrestricted use," providing a basis for that approach. If applicable, please discuss any changes, and provide updated facility diagrams as needed.

The vestibule areas are adjacent to the restricted areas for radioactive material use. The inner doors are locked and appropriately labeled with "Caution Radioactive Materials". The vestibules are areas in which radioactive material may pass through for delivery or return, but not as a restricted area in which radioactive material will be used.

g



Glenn P. Sullivan, MBA
Director, Health Physics NPS
Corporate Radiation Safety Officer
7200 Cardinal Place West, Dublin, OH 43017
614.757.9586 dir | 614.652.4838 fax

From: Forster, Sara [<mailto:Sara.Forster@nrc.gov>]
Sent: Tuesday, August 01, 2017 12:19 PM
To: Sullivan, Glenn <glenn.sullivan@cardinalhealth.com>
Subject: Additional Information Request for Cardinal Health, NRC Lic. No. 34-29200-01MD, CN594669

[External Email]

Dear Mr. Sullivan:

We have reviewed your April 28, 2017 letter (ML17124A299) requesting approval by the NRC of work plan and commitments including your updated facility diagrams for areas in Swartz Creek, Michigan and Laurel, Delaware, where radioactive material will be used or stored under the license. Additional information is needed to complete our review. As we noted in our phone message, based on our review of the above referenced license file, the plans for renovating your facility are unclear; including the proposed unrestricted receiving area and discussion of whether the changes would impact air flow and effluent monitoring. Accordingly, please respond to the items below, as noted:

1. Please confirm that any construction changes will not affect the air flow in the facility and associated effluent monitoring. In the alternative, please describe any changes in the air flow and how monitoring will be adjusted.
2. Please discuss how the proposed "vestibule" areas may be labeled and maintained for "unrestricted use," providing a basis for that approach. If applicable, please discuss any changes, and provide updated facility diagrams as needed.

In order to fully incorporate the facility changes into the referenced action, we will need you to submit additional information as soon as possible. If you are unable to respond by tomorrow, please let us know when you will be able to provide a response. The facility changes would be handled separately. Additional guidance may be found in NUREG 1556, Vol. 13, rev. 1, "Program Program-Specific Guidance about Commercial Radiopharmacy Licenses," which may be found at:

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v13/r1>

Submission of your response as a pdf file attached to an email or via facsimile will allow for the quickest processing. Any response must be submitted under a signed and dated cover letter. Do not hesitate to call me with any questions you may have, or if you will need additional time to complete your response.

Sincerely,

Sara A. Forster, Health Physicist Licensing Reviewer

U.S. Nuclear Regulatory Commission - Region III

Division of Nuclear Materials Safety

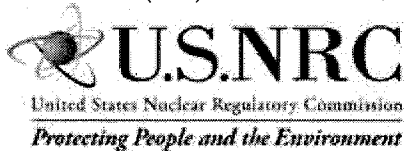
2443 Warrenville Rd. - Ste. 210

Lisle, IL 60532-4352

sara.forster@nrc.gov

Direct: (630) 829-9892

Facsimile: (630) 515-1078



This message is for the designated recipient only and may contain privileged, proprietary or otherwise private information. If you have received it in error, please notify the sender immediately and delete the original. Any other use of the email by you is prohibited.

Dansk - Deutsch - Espanol - Francais - Italiano - Japanese - Nederlands - Norsk - Portuguese - Chinese
Svenska: <http://www.cardinalhealth.com/en/support/terms-and-conditions-english.html>

This message is for the designated recipient only and may contain privileged, proprietary or otherwise private information. If you have received it in error, please notify the sender immediately and delete the original. Any other use of the email by you is prohibited.

Dansk - Deutsch - Espanol - Francais - Italiano - Japanese - Nederlands - Norsk - Portuguese - Chinese
Svenska: <http://www.cardinalhealth.com/en/support/terms-and-conditions-english.html>