

Warren, Geoffrey

From: Warren, Geoffrey
Sent: Wednesday, September 08, 2021 8:49 AM
To: Sullivan, Glenn
Cc: Tindle-Engelmann, Elizabeth; Nieves Folch, Luis
Subject: NRC Inspection Reports - Stamford CT and Indianapolis IN
Attachments: Cardinal Health 202103 - Stamford CT -sigMK.pdf; Cardinal Health 202104 - Indianapolis IN - 591M -mk.pdf

Enclosed are the inspection reports for the NRC's recent inspections at your radiopharmacies in Stamford, Connecticut, and Indianapolis, Indiana. No violations were identified as the result of these inspections. No response is required to the reports or to this email.

Please contact me if you have any questions.

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Geoffrey Warren
Senior Health Physicist (Inspector)
NRC Region III, Lisle, IL
630-829-9742

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Cardinal Health
Nuclear Pharmacy Services
7000 Cardinal Place
Dublin, OH 43017

REPORT NUMBER(S) 2021004

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenton Road, Suite 210
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-36973

4. LICENSE NUMBER(S)

34-29200-01MD

5. DATE(S) OF INSPECTION

August 19, 2021

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

_____ Non-cited violation(s) were discussed involving the following requirement(s):

- ☐ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
(Violations and Corrective Actions)

Statement of Corrective Actions

I hereby state that, within 30 days, the actions described by me to the Inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

TITLE	PRINTED NAME	SIGNATURE	DATE
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Luis Nieves Folch	Luis A. Nieves Folch Digitally signed by Luis A. Nieves Folch Date: 2021.08.31 12:31:21 -05'00'	
BRANCH CHIEF	Michael Kunowski	Michael A. Kunowski Digitally signed by Michael A. Kunowski Date: 2021.08.31 15:39:40 -05'00'	

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Cardinal Health, Nuclear Pharmacy Services, Dublin, Ohio
 Location Inspected: 28 Omega Drive, Building #7
 Stamford, Connecticut 06907

REPORT NUMBER(S) 2021003

2. NRC/REGIONAL OFFICE

Region III
 U. S. Nuclear Regulatory Commission
 2443 Warrenville Road, Suite 210
 Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

03036973

4. LICENSE NUMBER(S)

34-29200-01MD

5. DATE(S) OF INSPECTION

08/02/2021

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

Non-cited violation(s) were discussed involving the following requirement(s):

- ☐ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
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TITLE	PRINTED NAME	SIGNATURE	DATE
LICENSEE'S REPRESENTATIVE	Glenn Sullivan		
NRC INSPECTOR	Elizabeth Tindle-Engelmann	Elizabeth D. Tindle-Engelmann	Digitally signed by Elizabeth D. Tindle-Engelmann Date: 2021.08.19 11:37:27 -04'00'
BRANCH CHIEF	Michael Kunowski	Michael A. Kunowski	Digitally signed by Michael A. Kunowski Date: 2021.09.08 04:19:20 -05'00'



Materials Inspection Record

1. Licensee Name: Cardinal Health		2. Docket Number(s): 030-36973		3. License Number(s) 34-29200-01MD	
4. Report Number(s): 2021004			5. Date(s) of Inspection: August 19, 2021		
6. Inspector(s): Luis Nieves		7. Program Code(s): 04210		8. Priority: 2	9. Inspection Guidance Used: 87127
10. Licensee Contact Name(s): Adam Timm, RPh, Pharmacy Supervisor		11. Licensee E-mail Address: adam.timm@cardinalhealth.com		12. Licensee Telephone Number(s): 317-827-3301	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		14. Locations Inspected: <input type="checkbox"/> Main Office <input checked="" type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): July 6, 2023 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	

16. Scope and Observations:

This was an announced, routine inspection of a radiopharmacy operating under Cardinal Health's multi-site license. This site, located in Indianapolis, Indiana, routinely served 35 clients in a one and a half hour range. The pharmacy operated Monday through Friday, with limited hours on weekends. The pharmacy distributed around 450 doses each weekday, primarily in the 1st of three runs. The first run going out around 3:00am, and the second and third runs going out around 8:00am and 10:00am, respectively. In addition to compounding doses of technetium-99m and other common isotopes, the pharmacy also compounded a handful of I-131 and I-123 capsules and doses of Thallium-201 each week. The licensee had nine authorized nuclear pharmacists, five pharmacy technicians, and seventeen drivers on staff at the time of the inspection.

PERFORMANCE OBSERVATIONS

The inspector toured the facility to evaluate the licensee's measures for materials security, hazard communication, and exposure control. The inspector conducted independent surveys of restricted and unrestricted areas, and found no residual contamination or exposures to members of the public in excess of regulatory limits. The inspector observed a variety of activities, including dose preparation, outgoing package preparation, client package return and waste handling, incoming generator and area surveys, and delivery vehicle loading. The licensee's staff also demonstrated the implementation of procedures for air effluent monitoring and bioassay for personnel preparing I-131 capsules. Through these observations, demonstrations, and discussions, the inspector found the licensee's staff to be knowledgeable of radiation protection principles and regulatory requirements. The inspector reviewed a selection of records, including internal and external audits, ALARA and incident reports, dose calibrator quality control records, air effluent monitoring reports, survey meter calibration certificates, hazmat training records, and dosimetry reports.

No violations of NRC requirements were identified as a result of this inspection.

Independent surveys were performed using a RadEyeG (SN:30839, calibration due date:10/12/2021). Surveys were consistent with the licensee's results and posting.

Materials Inspection Record (Continued)

During the inspection no violations were identified. An onsite exit briefing was held on August 2, 2021 and an exit meeting with held with the site RSO on August 11, 2021.