



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

September 30, 2009

Mr. Jack Coffey
Senior Vice President
Quality and Regulatory
Nuclear Pharmacy Services
Cardinal Health
7000 Cardinal Place
Dublin, OH 43017

SUBJECT: NRC INSPECTION REPORT 030-36973/09-010 (FORM 591M Part 1)
CARDINAL HEALTH – BARBOURSVILLE, WEST VIRGINIA FACILITY

Dear Mr. Coffey:

On September 15, 2009, a Nuclear Regulatory Commission (NRC) inspector completed a routine inspection at your Barboursville, West Virginia facility. The inspection results were discussed with Willie Regits of your staff during a final telephonic exit briefing conducted on September 29, 2009.

This inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and with the conditions of your license. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, independent measurements, and observation of activities in progress. Within the scope of this inspection no violations of NRC requirements were identified; therefore, no response to this letter or the enclosed NRC Form 591M is required.

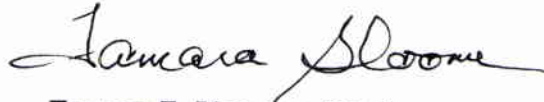
In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

J. Coffey

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Should you have any questions concerning this inspection or enclosed report, please contact Ken Lambert of my staff at (630) 829-9633.

Sincerely,

A handwritten signature in black ink that reads "Tamara E. Bloomer". The signature is fluid and cursive, with the first name "Tamara" being more prominent and the last name "Bloomer" following in a similar style.

Tamara E. Bloomer, Chief
Materials Inspection Branch

Docket No.: 030-36973
License No.: 34-29200-01MD

Enclosure:
Inspection Report 030-36973/09-010

cc w/encl: State of West Virginia

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

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

2. NRC/REGIONAL OFFICE

REGION I
US NUCLEAR REGULATORY COMMISSION
475 ALLENDALE ROAD
KING OF PRUSSIA PA 19406-1415

REPORT NUMBER(S) 2009-010

3. DOCKET NUMBER(S)

030-36973

4. LICENSE NUMBER(S)

34-29200-01MD

5. DATE(S) OF INSPECTION

Aug 31 - Sept 15, 2009

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, NUREG-1600, 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. 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			
NRC INSPECTOR	Todd Jackson	<i>Ken Lambert for</i>	9/30/09

Initial	Announced	☒ Unannounced	☒ Routine	Special
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NRC FORM 591M PART 3
(10-2003) 10 CFR 2.201
U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information
**SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION**

1. LICENSEE Cardinal Health Nuclear Pharmacy Services 7000 Cardinal Place Dublin, OH 43017 REPORT NOS 2009-010	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region I, 475 Allendale Road King of Prussia, Pennsylvania 19406-1415
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3. DOCKET NUMBER(S) 03036973	4. LICENSE NUMBER(S) 34-29200-01MD	5. DATE(S) OF INSPECTION Aug. 31 – Sept 15, 2009
6. INSPECTION PROCEDURES USED 87127	7. INSPECTION FOCUS AREAS All	8. INSPECTOR Todd Jackson

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2500	2. PRIORITY 2	3. LICENSEE CONTACT Willie Regits, Corp. Quality & Regulatory	4. TELEPHONE NUMBER 614-757-3147
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☐ Main Office Inspection

Next Inspection Date: _____

☒ Field Office 115 Dingess St, Barboursville, WV

☐ Temporary Job Site Inspection _____

PROGRAM SCOPE

This location began work at about midnight, with first run at about 1AM and second run about 6AM and last run about 8AM. Orders at the start of the day totalled 626 doses, with 470 on the first run (all Tc-99m). This was the first week when the recent Tc-99m shortage seems to be relieved, with more Tc-99m available. Generators containing about 20 Ci Tc-99m have been available for many weeks, however on the day of the inspection there were generators containing 30 Ci available for dispensing. This pharmacy also routinely handles Tl-201; redistributes FDG, I-123, & Xe-133 without handling in the lab; and dispenses 400-500 mCi of I-131 per week. Staff on the day of inspection included 1 R.Ph., 2 techs, and 10 drivers (typical staff). Facilities were well-designed, and included a large vehicle bay equipped with garage doors.

The inspector observed activities, interviewed staff, and reviewed selected records. Calibration methods were reviewed in-detail for dose calibrators, well counters, bioassay measurement instruments, and air sample analysis instruments and calibrations were acceptable. Files of licenses for customers receiving radioactive material were reviewed and selected files verified. Personnel radiation exposure records were reviewed and personnel were observed to be properly wearing dosimetry. Packing and shipment of materials was observed, and shipping paperwork reviewed. Effluent measurements were reviewed, sampling methods observed, and effluent release calculations examined.

No violations were identified.