



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

January 27, 2010

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

**SUBJECT: NRC INSPECTION REPORT 030-36973/10-03 (FORM 591M Part 1)
CARDINAL HEALTH – CORPORATE OFFICE**

Dear Mr. Coffey:

On January 19 through 21, 2010, the U.S. Nuclear Regulatory Commission (NRC) conducted a routine inspection at your corporate office in Dublin, Ohio. At the conclusion of the onsite inspection, the inspection results were discussed with you, Gilberto Quintero, Willie Regits, and other members of the Cardinal Health Quality & Regulatory staff.

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, reviews of internal audit findings, the external dosimetry program, public dose evaluations, incident and event reporting, authorized user and nuclear pharmacist training, employee concerns program, and Department of Transportation 7A Type A package certification testing. 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.

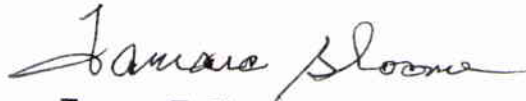
In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC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

J. Coffey

-2-

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 cursive script that reads "Tamara Bloomer".

Tamara E. Bloomer, Chief
Materials Inspection Branch

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

Enclosure:
Inspection Report 030-36973/10-03

cc w/encl: State of Ohio

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Cardinal Health Nuclear Pharmacy Services 7000 Cardinal Place Dublin, Ohio 43017 REPORT NUMBER(S) 2010-03		2. NRC/REGIONAL OFFICE Region III U.S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532-4351	
3. DOCKET NUMBER(S) 030-36973	4. LICENSEE NUMBER(S) 34-29200-01MD	5. DATE(S) OF INSPECTION January 19-21, 2010	

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:

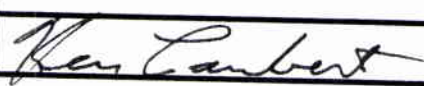
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(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)

Licensee's Statement of Corrective Actions for Item 4, above.

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	Ken Lambert		1/22/10

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Cardinal Health, Nuclear Pharmacy Services		2. NRC/REGIONAL OFFICE NRC Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532-4351	
REPORT NUMBER(S) 2010-03			
3. DOCKET NUMBER(S) 030-36973	4. LICENSE NUMBER(S) 34-29200-01MD	5. DATE(S) OF INSPECTION January 19-21, 2010	
6. INSPECTION PROCEDURES USED 871127	7. INSPECTION FOCUS AREAS 03.01 – 03.07		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02500	2. PRIORITY 2	3. LICENSEE CONTACT Willie Regits	4. TELEPHONE NUMBER 614-757-3147
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Main Office Inspection

Field Office

Temporary Job Site Inspection

Next Inspection Date: November 2011

PROGRAM SCOPE

The licensee is authorized for 21 nuclear pharmacy locations as specified on the license for the preparation and distribution of radioactive drugs. These authorizations included the preparation and distribution of radioactive drugs including compounding of iodine-131, the redistribution of used and unused molybdenum-99/technetium-99m generators to authorized recipients: 1) in accordance with 10 CFR 32.72; and 2) for non-medical use. The license also authorized the redistribution of sealed sources initially distributed by a manufacturer licensed pursuant to 10 CFR 32.74. The license also specifically authorized various sealed sources and devices for instrument calibration purposes at specific locations including authorization for calibration of survey meters as a service for customers and other clients. This inspection focused on Cardinal Health's corporate licensee staffs implementation of the overall radiation safety program and its integration with the nuclear pharmacies authorized on the license.

Performance Observations

The licensee's corporate staff demonstrated or discussed: (1) radiation dosimetry program that included whole body and extremity monitoring, notifications and investigation of doses that exceeded administrative limits; (2) environmental monitoring including air effluents and evaluations of doses to members of the public; (3) licensee's audit program including content, scheduling, corrective actions to deficiencies and management oversight; (4) annual review of the radiation protection program; (5) authorized user and authorized nuclear pharmacist approval program and training; (6) initial and annual radiation safety training; (7) reportable events and incidents; (8) development and implementation of the licensee's employees concern program; and (9) certification testing for DOT 7A Type A radioactive material packages.

The maximum extremity exposure for 2009 was projected to be less than 40 rem, which is the licensee's administrative limit for removing individuals from working with radioactive materials. A review of environmental monitoring revealed that all pharmacy locations will be below air effluent limits and the 100 mrem exposure limit to members of the public. The inspectors also reviewed NMED item 090389 involving a vehicle accident where the blocking and bracing failed and radioactive material packages were ejected from the vehicle. The packages were breached; however the lead pigs remained intact and no radioactive material was released to the environment. This item is considered closed.

No violations were identified during the inspection.