



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

April 19, 2006

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

**SUBJECT: NRC INSPECTION REPORTS 030-36973/2006-003 AND 030-36973/2006-011
(FORM 591M PART 1)**

Dear Mr. Coffey:

This letter refers to the routine inspections conducted on March 22, 2006, at your East Rutherford, New Jersey facility and on March 24, 2006, at your Griffith, Indiana facility. The inspection results were discussed with Willie Regits and Chris Walters of your staff during a final telephonic exit briefing conducted on April 11, 2006.

These inspections were 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 these inspections no violations of NRC requirements were identified; therefore, no response to this letter or the enclosed NRC Form 591Ms is required.

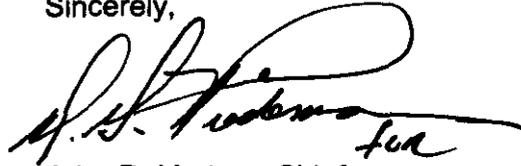
In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

J. Coffey

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

Sincerely,

A handwritten signature in black ink, appearing to read "J.R. Madera", with a stylized flourish at the end.

John R. Madera, Chief
Materials Inspection Branch

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

Enclosures:

1. Inspection Report 03036973/06-003
2. Inspection Report 03036973/06-011

cc(w/encl 1): State of Indiana

cc(w/encl 2): State of New Jersey

10 CFR 2.201
 ART 1
 (10-2003) 10 CFR
 2.201

U.S. NUCLEAR REGULATORY
 COMMISSION *JW*

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Cardinal Health Nuclear Pharmacy services Location: Griffith, IN 7000 Cardinal Place Dublin, OH 43017 REPORT 2006/003	2. NRC/REGIONAL OFFICE Nuclear Regulatory Commission Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532
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3. DOCKET NUMBER(S) 030-38973	4. LICENSEE NUMBER(S) 34-29200-01MD	5. DATE(S) OF INSPECTION 03/ 24 /2006
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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) 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	Tony Go	<i>Tony Go</i>	03/ 24 / 2006

DOCKET FILE INFORMATION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Cardinal Health REPORT 2006/003		2. NRC/REGIONAL OFFICE Region III	
3. DOCKET NUMBER(S) 030-36973	4. LICENSE NUMBER(S) 34-29200-01MD	5. DATE(S) OF 03/24/06	
6. INSPECTION 87127	7. INSPECTION FOCUS AREAS 03.01 - 03.07		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM 2500	2. PRIORITY 2	3. LICENSEE CONTACT Rosalyn Sammons	4. TELEPHONE NUMBER 219-922-3790
<input type="checkbox"/> Main Office Inspection		Next Inspection Date: 03/2008	
<input checked="" type="checkbox"/> Field 212 S. Ivanhoe, Griffith IN			
<input type="checkbox"/> Temporary			

PROGRAM SCOPE

The pharmacy facility provides a service in parts of Indiana and Illinois. During the inspection, the pharmacy prepared on the average of 350 to 400 unit doses per day. According to the manager, Ms Rosalyn Sammons, the facility serviced approximately 27 clients in Indiana and Illinois since the last inspection. The RSO, Mr. Robert Reyes, R. Ph., was responsible in a day-to-day radiation safety program. The licensee employed four pharmacists, four technologists, and approximately 19 drivers, about the same level of staffing since the last inspection. The pharmacy opened for business Monday through Friday, and Saturday or as needed on weekends. The licensee initial production run started at 2:00 a.m., the second started at 8:00 to 9:00 a.m., and the third run started at 1:00 p.m. The inspector toured the facility prior to the licensee's second run. The licensee received four Mo-Tc99m generators/week for dose productions, distributed Xenon-133 gas, compounded I-131 capsules as ordered, and also distributed non-NRC regulated nuclides. In addition, the licensee also distributed Sm-153 therapeutic doses to clients. As of the inspection date, the licensee had incorporated the approved Sm-153 doses determination in order to calibrate the licensee's dose calibrator.

Performance Observations

During the second shift inspection, the inspector observed two pharmacists and two technicians dispensing and performing quality assurance of the unit doses before the second run. The inspector observed the licensee's staff included technologists as well as the pharmacists drawing doses, preparing shipment of unit and bulk doses, and conducting radiation and contamination surveys for compliance with NRC and DOT requirements. The inspector observed that the licensee's staff used personal dosimetry for both hands and whole-body. The inspector also interviewed the pharmacy drivers and assessed that the DOT transport packages containing unit doses had never been left unsecured or unattended at the client sites. Copies of these clients' State and NRC licenses were available and were randomly reviewed by the inspector. Additionally, the inspector also performed a confirmatory radiation surveys GM survey meter of the licensee's restricted areas and vehicles. The survey results did not indicate RAM contamination on the transport vehicles or at the restricted areas. The dosimetry records from 2005 to 2006 indicated the followings:

2005 TEDE= 106 mrem SDE= 16130 mrem
2004 TEDE= 83 mrem SDE= 16820 mrem

On December 20, 2005, the licensee reported an accident involving the licensee's vehicle that caused an injury to the driver. The accident occurred when the licensee's vehicle containing DOT transport packages returning from clients was stopped at a traffic light and was rear-ended by a large semi-truck. The accident caused both front and rear end damage to the licensee's vehicle. The accident did not cause any licensed material to leak out from the DOT transport packages. The State responders and licensee's staff included the site RSO responded to the scene. Radiation and contamination surveys of the transport vehicle and the surrounding area did not identify radioactive contamination. The DOT packages containing the licensed materials were secured and loaded onto another truck for removal from the accident scene.

