



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

June 23, 2006

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

SUBJECT: NRC INSPECTION REPORT 030-36973/06-012 (FORM 591M Part 1)

Dear Mr. Coffey:

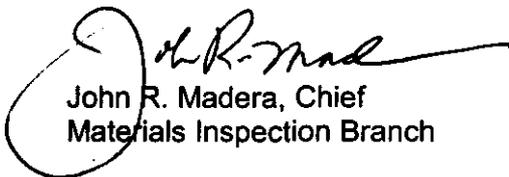
This letter refers to the routine inspection conducted on May 18, 2006, at your Hummelstown, Pennsylvania facility with continued in-office review through June 8, 2006. The inspection results were discussed with Paul Gotti, Radiation Safety Officer, during a final telephonic exit briefing conducted on June 16, 2006.

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 document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

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

Sincerely,

  
John R. Madera, Chief  
Materials Inspection Branch

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

Enclosure:  
Inspection Report 030-36973/06-012

cc w/encl: State of Pennsylvania

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: Cardinal Health Nuclear Pharmacy Services 8181 President's Drive Hummelstown, PA 17036		2. NRC/REGIONAL OFFICE  U.S. Nuclear Regulatory Commission Region I, 475 Allendale Road King of Prussia, Pennsylvania 19406-1415	
REPORT Nos 2006-012			
3. DOCKET NUMBER(S) 030-36973	4. LICENSE NUMBER(S) 34-29200-01MD	5. DATE(S) OF INSPECTION May 18, 2006 & June 8, 2006	

**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.

**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	Dennis Lawyer	<i>Ken Lambert for</i>	06/12/2006

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



1. LICENSEE <b>Cardinal Health Nuclear Pharmacy Services 7000 Cardinal Place Dublin, Ohio 43017</b> REPORT NOS      2006-012	2. NRC/REGIONAL OFFICE <b>U.S. Nuclear Regulatory Commission Region I, 475 Allendale Road King of Prussia, Pennsylvania 19406-1415</b>
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3. DOCKET NUMBER(S) 030-36973	4. LICENSE NUMBER(S) 34-29200-01MD	5. DATE(S) OF INSPECTION May 18, 2006 & June 8, 2006
6. INSPECTION PROCEDURES USED 87127	7. INSPECTION FOCUS AREAS 02.01-02.07	8. INSPECTOR Dennis Lawyer

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) 2500	2. PRIORITY 2	3. LICENSEE CONTACT Bob Grobinski, R.Ph.	4. TELEPHONE NUMBER 717-566-2266
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Main Office Inspection      Next Inspection Date: May 2008

Field Office Hummelstown, Pennsylvania

Temporary Job Site \_\_\_\_\_

**PROGRAM SCOPE**

The scope of this program is a radiopharmacy which employs four radiopharmacists, four technicians and about 18 drivers. The drivers assist in radioactive package preparation. The pharmacy hours are from Midnight till 5:00 PM. There are three drawing hoods in the pharmacy. The pharmacy uses six 15 to 18 curie generators weekly.

The pharmacy has two distribution times are 2:30 AM, 4:30 AM, 8:00 AM, and 2:30 PM. First doses are prepared for shipment to the Allentown pharmacy. A Hummelstown driver transports the licensed material to a midpoint and doses are transferred to the Allentown radiopharmacy vehicle. This practice is expected to end soon and the Allentown pharmacy will prepare more doses. Times of operations are expected to be adjusted to open approximately 1 to 2 hours later. The pharmacy prepares approximately 550 Tc-99<sup>m</sup> doses per day.

The pharmacy also distributes, I-123, I-131, Xe-133 and will do blood labeling on an as needed basis. They provide services to their customers of transferring instruments to a vendor for calibration.

The pharmacy prepares and dispenses 4 to 150 millicurie in I-131 capsules per week. Effluent measurements over the last year were <5% of the effluent limit. In 2004, the annualized effluent was reported as 26.8% of the limit as measured in the concentration at the discharge point of the facility. An additional filtration system was added in March 2004 which accounts for the reduction of effluent values between years 2004 and 2005.

The pharmacy is audited monthly by staff pharmacists and by corporate radiation safety auditors three times a year.