

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Cardinal Health
Nuclear Pharmacy Services
Dublin, OH 43017
Princeton, WV pharmacy
REPORT NUMBER(S) 2011-008

2. NRC/REGIONAL OFFICE

Region III
2443 Warrenville Rd.
Lisle, IL 60532

3. DOCKET NUMBER(S)

030-36973

4. LICENSEE NUMBER(S)

34-29200-01MD

5. DATE(S) OF INSPECTION

September 20, 2011

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

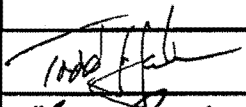
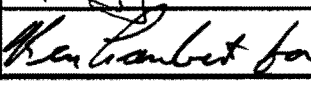
_____ Non-cited violation(s) were discussed involving the following requirement(s):



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

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 | Todd J. Jackson, CHP |  | 9/28/11 |
| Branch Chief | Tamara E. Bloomer |  | 9/29/11 |

Docket File Information
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6. INSPECTION PROCEDURES

87127

7. INSPECTION FOCUS AREAS

03.01-03.08

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM

2500

2. PRIORITY

2

3. LICENSEE CONTACT

Willie Regits, Ph.D., RSO

4. TELEPHONE NUMBER

614-757-5000

☒ Main Office Inspection

Next Inspection Date: _____

☐ Field Office Inspection _____

☐ Temporary Job Site Inspection _____

PROGRAM SCOPE

The pharmacy in Princeton, West Virginia was staffed by one pharmacist assisted by three technicians and several couriers. The pharmacy prepares about 160 doses daily, primarily using Tc-99m, for about 20 active customers. I-131 capsules and Xe-133 are handled infrequently, always in doses prepared elsewhere (typically the Cardinal pharmacy located in Barboursville, WV) and distributed locally through the Princeton pharmacy. Usual deliveries of Mo-99/Tc-99m generators are two 11-Ci generators weekly, one on Monday and one on Tuesday. Effluents from the facility are negligible, and fixed dosimeters located to measure maximum exposures on exterior walls of the pharmacy demonstrate compliance with public dose limitations. Personnel exposures were all less than regulatory limits, with the maximum extremity exposures of 18,630 mrem in 2010 and 18,910 mrem through 9/4/11. The licensee had flagged the increased trend in exposure during 2011 for investigation, identified likely reasons causing the increase, and initiated corrective actions to address. These actions indicate a commitment to ALARA because all exposures were significantly less than annual regulatory limits.

The inspection consisted of observations of licensee activities, review of selected records, a tour of pharmacy facilities, interviews of personnel, and independent measurements. Pharmacy operating hours are approximately 1 AM until 11 AM. For this inspection the inspector arrived at 4AM and was able to observe activities related to the end of the first run. No violations were identified.

TJH 9/28/11