

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

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| <p>1. LICENSEE/LOCATION INSPECTED: Cardinal Health Nuclear Pharmacy Services Dublin, OH 43017 Barboursville, WV pharmacy REPORT NUMBER(S) 2011-007</p> | <p>2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Rd. Lisle, IL 60532</p> |
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| <p>3. DOCKET NUMBER(S) 030-36973</p> | <p>4. LICENSEE NUMBER(S) 34-29200-01MD</p> | <p>5. DATE(S) OF INSPECTION September 20-November 4, 2011</p> |
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LICENSEE:

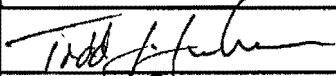
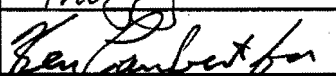
The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures 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, 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 |  | 11/9/2011 |
| Branch Chief | Tamara E. Bloomer |  | 11/10/11 |

Docket File Information
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| 6. INSPECTION PROCEDURES 87127 | 7. INSPECTION FOCUS AREAS 03.01-03.08 |
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SUPPLEMENTAL INSPECTION INFORMATION

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|---------------------------|-------------------------|---|--|
| 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 Barboursville, West Virginia was staffed by three pharmacists assisted by three technicians, two technician-trainees, and several couriers/drivers. The pharmacy prepares about 500 doses daily, primarily using Tc-99m, for about 30 active customers. I-131 capsules are handled regularly, commonly two 500-mCi capsules every 2 weeks and sometimes more (during August 2011 they shipped 18 capsules). Usual deliveries of Mo-99/Tc-99m generators are four generators weekly, 19 Ci on Monday and Thursday, 14 Ci on Tuesday, and 7.5 Ci on Wednesday. FDG is handled occasionally, with drivers picking up doses in Cincinnati, OH (2-3 hours away). Effluents from the facility are monitored by charcoal sampler, and fixed dosimeters located to measure maximum exposures on exterior walls of the pharmacy demonstrate compliance with public dose limits. Effluents for 2010 were calculated to be approximately 14% of applicable limits and were on track to be about the same for calendar year 2011. Personnel exposures were all less than regulatory limits, with the maximum extremity exposures of 23,420 mrem in 2010 and 19,060 mrem through 9/4/11.

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 midnight until 3 PM, covering at least two shifts including daytime office coverage. 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.