

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Hot Shots Nuclear Medicine 2296 U. S. 41 South Marquette, Michigan 49855 REPORT NUMBER(S) 13-01		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 030-38407	4. LICENSE NUMBER(S) 21-32812-01MD	5. DATE(S) OF INSPECTION July 25, 2013	

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:


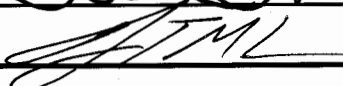
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is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

Non-cited violation(s) 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 in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
(Violations and Corrective Actions)

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	Robert P. Hays		7/25/13
BRANCH CHIEF	Aaron T. McCraw		8/7/13

Docket File Information

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6. INSPECTION PROCEDURES USED IP 87127	7. INSPECTION FOCUS AREAS 03.01 - 03.07
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 2500	2. PRIORITY 2	3. LICENSEE CONTACT Allen Doan, RSO, ANP	4. TELEPHONE NUMBER (906) 273-1306
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Main Office Inspection Next Inspection Date: 07/24/2015

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This nuclear pharmacy staff included one pharmacist, one pharmacy technician, and five drivers. The licensee receives two generators each week and prepares and distributes an average of 90-100 unit doses per week day. In addition to unit doses, the pharmacy occasionally distributes iodine-123, and iodine-131 capsules, therapeutic beta emitters, and indium-111 blood labeling. No Iodine-131 is compounded at the pharmacy, but is ordered by the pharmacy from a vendor and "passed through" to the pharmacy client that had ordered the dosage. No change in unit dose production since the previous inspection. Unit dose production starts around midnight and ends at approximately 3:30 am each weekday.

Performance Observations

Interviews with the RSO and other licensee personnel indicated an adequate knowledge of radiation safety concepts and procedures provided through recurring training. The licensee's staff demonstrated/discussed and record reviews included: (1) unit dose prep and safe use procedures; (2) package returns and breakdown procedures; (3) area and contamination surveys; (4) DOT packaging and transportation procedures; (5) generator elutions and moly tests; (6) wipe test counting and efficiency procedures; (7) survey instruments and calibrations; (8) postings and labeling; (9) staff training; (10) annual radiation safety program audits and periodic corporate audits; (11) waste handling; (12) facility security; (13) dose calibrator tests; (14) sealed source inventories and leak tests; (15) any transportation events involving a loss of control of licensed material (none); and (16) the highest cumulative weekly and monthly dosimetry records indicated:

2012: 65 mrem DDE (whole body); and 20,765 mrem SDE (extremity)
2013: 38 mrem DDE (whole body); and 4264 mrem SDE (extremity) through May 2013

The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.