

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: UNIVERSITY OF MINNESOTA WILB8 BOYNTON HEALTH SERVICE 410 CHURCH ST, S.E. MINNEAPOLIS, MN 55455 REPORT 2005/001, 2005/001, 2005/002		2. NRC/REGIONAL OFFICE US NRC R111 2443 WARRENVILLE RD SUITE 210 LISLE, IL 60532	
3. DOCKET NUMBER(S) 030-13175, 030-19162, 030-00842		4. LICENSEE NUMBER(S) 22-00187-49, 22-00187-54, 22-00187-46	
		5. DATE(S) OF INSPECTION 06.10-06.09.05	

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.

(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	Sarah Bakhs/George Parker		6/9/05

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: University of Minnesota REPORT NUMBER(S) 2005/001, 2005/001, 2005/002		2. NRC/REGIONAL OFFICE REGION III	
3. DOCKET NUMBER(S) 030-13175, 030-19162, 030-00842		4. LICENSE NUMBER(S) 22-00187-49,54, 46	5. DATE(S) OF INSPECTION 06/06-09/2005
6. INSPECTION PROCEDURES USED 87134		7. INSPECTION FOCUS AREAS 03.01-03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02210, 03234	2. PRIORITY 2	3. LICENSEE CONTACT Jerome Staiger, RSO	4. TELEPHONE NUMBER 612-626-6764
------------------------------------	------------------	--	-------------------------------------

Main Office Inspection Next Inspection Date: 6/2006

Field Office Inspection Fairview Medical Center, Thompson Center

Temporary Job Site Inspection _____

PROGRAM SCOPE

The licensee is a state of Minnesota university that employed approximately 18,000 people. The total student population was approximately 50, 900. Nuclear medicine, radiation therapy, and gamma knife treatments procedures were performed at the Fairview University Medical Center. The licensee had approximately 220 authorized permits for radioactive material use in research laboratories which were in numerous locations throughout the campus. The university had a veterinary clinic where diagnostic and therapeutic procedures were performed. In addition, the university had cesium-137 and neutron irradiators that were used for research.

The nuclear medicine department performed approximately 30 procedures daily, primarily using technetium-99m. They also performed therapy procedures using iodine-131 capsules. The licensee had performed 18 treatments using the recently installed gamma knife. Two patients were treated weekly with high-dose rate remote afterloader and there are approximately 2 low-dose brachytherapy treatments weekly. At the veterinary clinic, the licensee performed 5-10 procedures weekly, primarily using unit doses of technetium-99m in nuclear medicine. Radiation therapy primarily used iodine-131 and a cobalt-60 panoramic irradiator for treatments.

The licensee has several cesium-137 irradiators and one californium-252 irradiator which were used for research purposes.

During this inspection, the nuclear medicine, brachytherapy, human research, veterinary medical, and research/development programs were reviewed.

PERFORMANCE OBSERVATIONS

The inspectors toured the facility and observed the licensee staff: (1) secure restricted areas when leaving it unattended in the nuclear medicine and therapy facilities in addition to the irradiator and research facilities; (2) prepare and administer licensed material to patients in the nuclear medicine facility; (3) demonstrate dose calibrator constancy checks; (4) demonstrate daily safety checks for HDR, gamma knife, and interlock tests of the irradiators; (5) demonstrate radioactive spill response; (6) demonstrate package receipt surveys, area and wipe surveys; (7) demonstrate daily operability of survey instruments; (8) conduct a physical inventory of the sealed sources in the brachytherapy source room; (9) demonstrate procedures for tracking, storing, and disposing of waste.

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: University of Minnesota REPORT NUMBER(S) 2005/001, 2005/001, 2005/002		2. NRC/REGIONAL OFFICE REGION III	
3. DOCKET NUMBER(S) 030-19175, 030-19162, 030-00842	4. LICENSE NUMBER(S) 22-00187-49,54,46	5. DATE(S) OF INSPECTION 06/06-09/2005	
6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 02210, 03234	2. PRIORITY 2	3. LICENSEE CONTACT Jerome Staiger, RSO	4. TELEPHONE NUMBER 612-626-6764
------------------------------------	------------------	--	-------------------------------------

- Main Office Inspection Next Inspection Date: 6/2006
- Field Office Inspection Fairview Medical Center, Thompson Center
- Temporary Job Site Inspection _____

PROGRAM SCOPE

The inspectors reviewed the written directives for brachytherapy, HDR, and the gamma knife and identified no violations, in addition to select records of shipment and disposal of waste. Interviews with licensee personnel indicated adequate knowledge of the program and safety procedures. The inspectors conducted independent and confirmatory surveys of the licensee's facility which indicated measurements of less than 2mR/hr in unrestricted areas.

The inspectors reviewed the corrective actions associated with NMED item number 040299 and consider the issue closed.

No violations of NRC requirements were identified.

NMED No. 040299