

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: University of Minnesota W168 Boynton Health Service 410 Church Street, S. E. Minneapolis, MN 55455 REPORT NUMBER(S) 2011-01	2. NRC/REGIONAL OFFICE Region III: 2443 Warrenville Rd., Ste. 210 Lisle, IL 60532-4352
3. DOCKET NUMBER(S) 030-00842	4. LICENSE NUMBER(S) 22-00187-46
5. DATE(S) OF INSPECTION <i>September 13-14, 2011</i>	

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. 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	<i>[Signature]</i>	9/14/11
BRANCH CHIEF	Tamara E. Bloomer	<i>[Signature]</i>	9/23/11

Docket File Information
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6. INSPECTION PROCEDURES USED 87124		7. INSPECTION FOCUS AREAS 03.01-03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03620	2. PRIORITY 5	3. LICENSEE CONTACT Brian Vetter, RSO	4. TELEPHONE NUMBER (612) 626-5247
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Main Office Inspection Next Inspection Date: 09/14/2016

Field Office Inspection _____

Temporary Job Site Inspection R/V Blue Herron, Duluth, MN (Dr. Doug Ricketts)

PROGRAM SCOPE

The licensee is an agreement state academic institution authorized by their NRC license to use hydrogen-3, carbon-14, phosphorus-32, phosphorus-33, and sulfur-35 aboard the licensee's research ships as specified in the license, in unsealed form with limited specified quantities for research and development as defined in 10 CFR Part 30, Section 30.4 and gauging devices containing sealed sources at temporary job sites of the licensee anywhere in the United States where the USNRC maintains jurisdiction. Licensed activities involved conducting research, mainly on board the SS Blue Herron research vessel, using C-14 or H-3 for in vitro research purposes on the great lakes. The licensee has a portable laboratory that is loaded via a crane on to the ship and bolted down to the deck. All licensed materials are brought on board and are used and stored only in the portable laboratory. At the end of the cruise, all license material is returned to campus including any waste generated. No waste is disposed of in the Great Lakes. Cruises that have licensed material on board the research vessel are 3-4 days in length. Each cruise may have one to three users authorized by the UM Radiation Safety Committee on board. A review of contamination surveys of the portable lab did not reveal any elevated contamination concerns. No portable gauges have been at a temporary job site under NRC jurisdiction since Minnesota became an agreement state.

Performance Observations

During the inspection, the licensee's RSO and authorized user discussed radiation safety procedures which included: (1) radiation surveys and survey meter calibrations; (2) removable contamination surveys; (3) package receipt, wipe tests, and handling procedures; (4) transportation of packages; (5) waste handling; (6) dosimetry; (7) radiation safety program audits; (8) safe use practices; (9) security and storage of licensed materials; (10) DOT Training and refresher training; (11) authorized users and protocols; (12) ship captain's authorization to use isotopes; (13) emergency procedures; and (14) postings.