

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Kalamazoo College
1200 Academy Street
Kalamazoo, MI 49006

2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4351

REPORT NUMBER(S) 2011-01

3. DOCKET NUMBER(S)
030-00830

4. LICENSEE NUMBER(S)
21-13658-01

5. DATE(S) OF INSPECTION

February 23, 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:

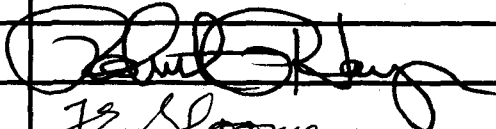

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☒ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Robert P. Hays		2/23/11
Branch Chief	Tamara E. Bloomer		3/14/11

NRC FORM 591 M PART 3 (06-2010) 10 CFR 2.201		U.S. NUCLEAR REGULATORY COMMISSION	
<i>Docket File Information</i> SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION			
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3. DOCKET NUMBER(S) 03000830	4. LICENSE NUMBER(S) 21-13658-01	5. DATE(S) OF INSPECTION February 23, 2011	
6. INSPECTION PROCEDURES 87124 (11/25/03)	7. INSPECTION FOCUS AREAS 03.01-03.07		
SUPPLEMENTAL INSPECTION INFORMATION			
1. PROGRAM 3620	2. PRIORITY 5	3. LICENSEE CONTACT J. Langeland, Ph.D., RSO	4. TELEPHONE NUMBER 269-337-7010
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Main Office Inspection <input type="checkbox"/> Field Office Inspection _____ <input type="checkbox"/> Temporary Job Site Inspection _____ </div> <div style="text-align: right;"> Next Inspection Date: February 2016 </div> </div>			
PROGRAM SCOPE			
<p>The licensee is an academic institution authorized by their license to use a selection of isotopes, both sealed and unsealed for research and educational purposes with activities and in the forms as specified in the license. At the time of the inspection, the licensee had five individuals approved as authorized users, with only one authorized user who had ordered and used approximately 200 microcuries of carbon-14 in the past six months. The licensee also has a nominal 122 microcurie cobalt-60 sealed source used infrequently when needed as a check source for survey instruments. At the time of the inspection, no licensed activities or research studies with licensed material were currently being conducted. The licensee had less than one millicurie of carbon-14 as waste in storage.</p>			
<u>Performance Observations</u>			
<p>During the inspection, the licensee's RSO demonstrated/discussed: (1) radiation surveys and survey meter calibrations; (2) contamination surveys; (3) package receipt, wipe tests, and handling procedures; (4) waste handling; (5) security and storage of licensed material; and (6) corrective actions for a SL IV violation pertaining to License Condition No. 13.A., for failure to conduct a leak test every six months. Licensee corrective actions were to leak test the sealed source and since the previous inspection, the RSO has been leak testing the source annually, since it is used infrequently and considered in storage except when used to verify survey meter response.</p>			