

ENCLOSURE 8

NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMMISSION
 (10-2003) 10 CFR 2.201
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Kalamazoo College 1200 Academy St. Kalamazoo, MI 49006	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4351
---	--

REPORT 2006/001

3. DOCKET NUMBER(S) 030-00830	4. LICENSEE NUMBER(S) 21-13658-01	5. DATE(S) OF INSPECTION 01/13/2006
----------------------------------	--------------------------------------	--

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)

Condition 13. A., of License No. 21-13658-01 requires that the licensee to leak test for contamination of sealed sources and detector cells at intervals not to exceed 6 months or at intervals as specified by certificate of registration referred to in 10 CFR 32.210.

Contrary to the above, as of January 13, 2005, the licensee had not leak tested a sealed source containing a nominal activity of 225 microcuries of cobalt-60 located at the Olds/Upton Science Building where the sealed source was stored and used since 1997.

The licensee assured the inspector that the sealed source will be leak tested within one week. The source is currently placed in storage and will not be used.

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	James A. Langland		1/23/06
NRC INSPECTOR	Tony S. Go		01/19/06

Docket File Information
**SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION**

1. LICENSEE Kalamazoo College REPORT 2006/001		2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III	
3. DOCKET NUMBER(S) 030-00830		4. LICENSE NUMBER(S) 21-13658-01	5. DATE(S) OF INSPECTION 01/13/06
6. INSPECTION PROCEDURES 87126		7. INSPECTION FOCUS AREAS 03.01 - 03.07	
SUPPLEMENTAL INSPECTION INFORMATION			
1. PROGRAM 3620	2. PRIORITY 5	3. LICENSEE CONTACT James Langeland, Ph.D.	4. TELEPHONE NUMBER 269-337-7010
<input checked="" type="checkbox"/> Main Office Inspection	Next Inspection Date: 01/11		
<input type="checkbox"/> Field			
<input type="checkbox"/> Temporary Job Site			
PROGRAM SCOPE			

NRC FORM 591M PART 3 (10-2003)

Program Scope

The inspector found that the licensee was a small program utilizing microcurie quantities of P-32 for laboratory research experiments. Dr. Langeland, the current RSO, was the only user of these microcurie quantities of the P-32. The RSO authorized four labs, however, only Dr. Langeland had used the licensed material at this time. The current inventory of P-32 was mostly in the decayed solid and liquid waste that was stored in the waste storage room. The licensee had not used P-32 for about three months. Only a maximum of ~250 uCi P-32 is usually received at anyone time. No other unsealed licensed material is currently used. The licensee also stored tritium waste from past experiments at the decay in storage (DIS) room.

The licensee also maintained a 0.62 mCi of cobalt-60 sealed source in the Olds/Upton Bldg. in the Department of Physics. As of the inspection, the source was decayed to 225 uCi of Co-60. According to the RSO, the source was used for periodic survey meter response checks, and removed from its storage location to be used during physics classes.

During the inspection, the inspector identified that the licensee had not leak tested the sealed source containing a nominal activity of 225 uCi of cobalt-60 located at the Upton Building in the Physics Department where the sealed source was stored and occasionally used since 1997.

The licensee assured the inspector that the sealed source will be leak tested within one week. The source is currently placed in storage and will not be used. In the future, licensee will leak test the source every six months.

Performance Observations

The inspector toured the facilities including the DIS room at the Dow Science Center, and physics department's source storage area. The sources at the physics department were mainly exempted sources with the exception of the 225 uCi of Co-60 sealed source. The inspector did not perform a performance-based inspection because there were no licensed activities at authorized laboratories at this time.