

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Kalamazoo College
1200 Academy Street
Kalamazoo, MI 49006

REPORT NUMBER(S) 2016-001

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-00830

4. LICENSE NUMBER(S)

21-13658-01

5. DATE(S) OF INSPECTION

May 4, 2016

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:

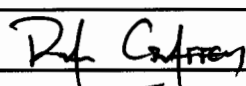

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Ryan Craffey		5/5/16
BRANCH CHIEF	Aaron McCraw		5/6/16

Docket File Information

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6. INSPECTION PROCEDURES USED

87126

7. INSPECTION FOCUS AREAS

All

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)

03620

2. PRIORITY

5

3. LICENSEE CONTACT

James A. Langeland, PhD - RSO

4. TELEPHONE NUMBER

(269) 337-7010



Main Office Inspection

Next Inspection Date: 05/04/2021



Field Office Inspection



Temporary Job Site Inspection

PROGRAM SCOPE

This was an unannounced routine inspection of a private liberal arts college authorized to use byproduct material for research, development and teaching at two locations on its campus in Kalamazoo, Michigan. At the time of the inspection, the licensee had a total of four authorized users, including the RSO. One of the two users in the physics department (located in the Olds/Upton Science Building) was authorized to use a Co-60 sealed source for Compton scattering demonstrations. He had last done so during the Fall 2014 semester. The other user in the department was authorized for P-32, and was considering the use of that material in the near future for RNA studies. The other two authorized users (one each in the chemistry and biology departments, both located in the Dow Science Center) were authorized for H-3, C-14, P-32, and S-35. One had used microcurie quantities of unsealed C-14 for studying drug/enzyme interactions as recently as October 2014. The other (the RSO) had not used any byproduct material for research and development since before the last inspection.

PERFORMANCE OBSERVATIONS

The inspector toured the authorized facilities in Kalamazoo to evaluate the licensee's measures for materials security, hazard communication, and exposure control. The inspector conducted independent surveys of areas where material had been used or stored, and found no evidence of any residual contamination or exposures to members of the public in excess of regulatory limits. Several of the licensee's authorized users were available during the inspection to demonstrate the various uses of material under the license, as well as the implementation of procedures for contamination control, area surveys, decay-in-storage waste handling, dosimetry use under the license, and leak test collection and analysis. Through these demonstrations and other discussions, the inspector found the licensee's staff to be knowledgeable of radiation protection principles and regulatory requirements. Because of the infrequent conduct of principle activities, the inspector also reviewed the requirements of 10 CFR 30.36(d) with the RSO.

The inspector reviewed a selection of relevant records, including utilization and waste logs, area survey documentation, leak test analyses, survey meter calibration records, dosimetry reports and radiation safety training materials.

No violations of NRC requirements were identified as a result of this inspection.