

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Curators of the University of Missouri  
The Chancellor, University of Missouri-Kansas City  
Administrative Center  
5115 Oak St. Kansas City, MO 64110

REPORT NUMBER(S) 202101

## 2. NRC/REGIONAL OFFICE

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

## 3. DOCKET NUMBER(S)

030-32693

## 4. LICENSE NUMBER(S)

24-00513-37

## 5. DATE(S) OF INSPECTION

July 6, 2021

## 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	Luis Nieves Folch	Luis A. Nieves Folch <small>Digitally signed by Luis A. Nieves Folch Date: 2021.07.16 08:06:41 -05'00'</small>	
BRANCH CHIEF	Michael Kunowski	Michael A. Kunowski <small>Digitally signed by Michael A. Kunowski Date: 2021.07.19 05:52:50 -05'00'</small>	



## Materials Inspection Record

1. Licensee Name: Curators of the University of Missouri		2. Docket Number(s): 030-32693		3. License Number(s) 24-00513-37	
4. Report Number(s): 2021001			5. Date(s) of Inspection: July 6, 2021		
6. Inspector(s): Luis Nieves		7. Program Code(s): 03620		8. Priority: 5	9. Inspection Guidance Used: 87126
10. Licensee Contact Name(s): Mary Donahue, RSO		11. Licensee E-mail Address: med6gc@umkc.edu		12. Licensee Telephone Number(s): 816-235-6096	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Non-Routine <input type="checkbox"/> Initial <input type="checkbox"/> Unannounced		14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): July 6, 2026 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

## 16. Scope and Observations:

This was an announced, routine inspection of an academic institution in Kansas City, Missouri, with an approximate enrollment of 16,000 students. The licensee was authorized to use sealed sources and unsealed material for research and development, teaching and training of students, and calibration and checking of the licensee's instruments. The licensee had at the time of the inspection four labs and four authorize users that still had material. The licensee mainly used phosphorus-32, tritium, and sodium-22 for unsealed material. The licensee also possessed at the moment but will soon decommission/dispose of a californium-252 source, a hydrogen-3 neutron generator, and two slabs of depleted uranium. The radiation safety office is staffed with a full-time radiation safety officer (RSO), who performs all survey activities and reports to the university's director of environmental health and safety. A separate technician handles all chemical and radioactive waste, but has no additional duties under the radiation safety program. The licensee's radiation safety committee (RSC) oversees the use of licensed materials under the license. While authorized to perform animal research, the licensee has not performed any such research in several years. The inspector visited the Spencer Chemistry Building and Laboratory Support Building for this inspection.

## Performance Observations

The inspector toured three of the labs that still had radioactive material. The inspector interviewed authorized users and found them knowledgeable of material handling and incident response (e.g., spills or damaged equipment) procedures. All materials were adequately secured. The inspector conducted independent surveys of the areas of materials use and storage and determined that radiation levels were well below regulatory limits. Dosimetry records revealed that badged personnel typically receive doses below the minimum detectable doses. The inspector interviewed the radiation safety officer and reviewed applicable documentation regarding radioactive material procurements, semi-annual inventories, leak tests, and general oversight of the radiation protection program.

During the last inspection, four violations were identified for failure to (1) perform leak test, (2) perform inventory every 6 months, (3) laboratory quarterly inspection, and (4) perform annual audit. The inspector reviewed the corrective actions by reviewing leak test records, inventories, laboratory inspections records, and annual audits. This violations are closed.

No violations of NRC requirements were identified during this inspection.

**From:** [Nieves Folch, Luis](#)  
**To:** [Donahue, Mary](#)  
**Subject:** Curators 591 NRC report  
**Date:** Tuesday, July 20, 2021 6:50:00 AM  
**Attachments:** [Curators 591\(1\)Mmak.pdf](#)

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**Dear Mrs. Donahue**

Attach is the clear 591 report for the inspection conducted on June 6, 2021. At this point there is no further actions on your part.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this message will be available electronically for public inspection in the NRC's Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <http://www.nrc.gov/reading-rm/adams.html>.

Please feel free to contact me if you have any questions regarding this correspondence.

Thank you,

**Luis Nieves**  
**Health Physicist**  
**U.S. Nuclear Regulatory Commission**  
**Division of Nuclear Materials Safety**  
**Office: (630) 829-9571**  
**Fax: (630) 515-1259**