

NRC FORM 591M PART 1 (10-2011) 10 CFR 2.201		U.S. NUCLEAR REGULATORY COMMISSION	
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION			
1. LICENSEE LOCATION INSPECTED: The Curators of the University of Missouri University of Missouri - St. Louis 1 University Boulevard (102 PTB) St. Louis, MO 63121-4400		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrentonville Road, Suite 210 Lisle, IL 60532-4352	
REPORT NUMBER(S) 12-01			
3. DOCKET NUMBER(S) 030-32694		4. LICENSE NUMBER(S) 24-00513-38	
		5. DATE(S) OF INSPECTION February 2, 2012	
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:			
<input type="checkbox"/> 1. Based on the inspection findings, no violations were identified.			
<input checked="" type="checkbox"/> 2. Previous violation(s) closed.			
<input type="checkbox"/> 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):			
<input checked="" type="checkbox"/> 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) 10 CFR 20.1801 requires that the licensee secure from unauthorized removal or access licensed materials that are stored in controlled or unrestricted areas. Contrary to the above, on February 2, 2012, the licensee did not secure from unauthorized removal or limit access to 600 microcuries of hydrogen-3 located in Laboratory M-315, William L. Clay Center for Nanoscience, which is a controlled area. This is a Severity Level IV violation (Supplement 6.3). Continued on Form 591, Part 2			
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	Steven D. Struck, RSO	[Signature]	2/17/12
NRC INSPECTOR	Robert P. Hays	[Signature]	2/16/12
BRANCH CHIEF	Tamara E. Bloomer	[Signature]	2/17/12

NRC FORM 591M PART 2 (10-2011) 10 CFR 2.201		U.S. NUCLEAR REGULATORY COMMISSION	
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION			
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(Continued) <p>The licensee's corrective actions included immediately locking the lab door and discussing the violation with the authorized user responsible for security of the licensed material in M-315. Additional proposed corrective actions include: (1) consideration of putting a lock on the refrigerator to control access to the licensed material; (2) discussing with campus security to verify that labs are locked and to notify the RSO if found unlocked when the labs are unattended during walkthroughs; and (3) additional training and emphasis on the importance of ensuring that licensed material is secured against unauthorized removal when the labs are unattended.</p>			

Docket File Information

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6. INSPECTION PROCEDURES USED 87134	7. INSPECTION FOCUS AREAS 03.01-03.07		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03620	2. PRIORITY 5	3. LICENSEE CONTACT Steve Struck, RSO	4. TELEPHONE NUMBER (314) 516-6362
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☒ Main Office Inspection Next Inspection Date: 02/02/2017

☐ Field Office Inspection

☐ Temporary Job Site Inspection

PROGRAM SCOPE

The licensee is authorized to use various isotopes for research and development as defined by Section 30.4 of 10 CFR Part 30, including metabolic labeling, tracers for isotope uptake studies, instrument calibration, and student instruction. At the time of the inspection, the licensee had 10 individuals authorized to use licensed material, but at the time of the inspection, there was only one active research project being conducted and involved using P-32. The licensee receives on average, one 5 millicurie P-32 shipment per month. The licensee's current isotope inventory, including waste in storage, indicated very low activities of H-3, C-14, and P-32. Only the RSO is involved with managing the radiation safety program.

Performance Observations

During the inspection, the RSO and research staff demonstrated/discussed: (1) survey meter use and calibrations; (2) package ordering, receiving, and check-in procedures; (3) area and contamination surveys; (4) dosimetry; (5) waste handling, storage and disposal procedures; (6) unsealed isotope inventory control; (7) security of licensed material and access to research labs; (8) minor contamination events (none); (9) staff training; (10) lab audits; and (11) corrective actions pertaining to violations identified during the prior inspection: (a) transfer of P-32 waste to an unauthorized recipient; (b) holding radioactive waste in storage for more than four years; (c) a failure to have EHS records on hard disk; (d) a failure to have packages delivered to the location specified in the license; and (e) the licensee failed to maintain all records showing receipt, transfer, and disposal of byproduct material. A review of the licensee's corrective actions indicated that the violations were corrected and should be considered closed.

One SL IV violation of 10 CFR 20.1801 was identified during this inspection for a lab found unlocked during a tour of the research facilities. Specifically, a vial containing 600 microcuries of H-3 was in storage in a refrigerator inside Lab M-315, Center for NanoScience, while the lab was not locked and unoccupied. See Part 2 for corrective actions.

Area surveys of the waste storage area and lab areas did not reveal any contamination or elevated readings.