

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Curators of the University of Missouri Research Reactor Center 1513 Research Park Drive Columbia, MO 65211</p> <p>REPORT NUMBER(S) 2017-001</p>	<p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352</p>
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<p>3. DOCKET NUMBER(S)</p> <p>030-32695</p>	<p>4. LICENSE NUMBER(S)</p> <p>24-00513-39</p>	<p>5. DATE(S) OF INSPECTION</p> <p>May 8-12, 2017</p>
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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:

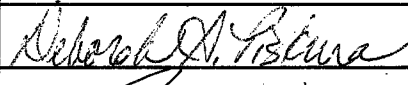
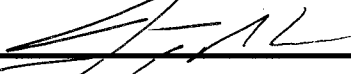
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Deborah A. Piskura, Senior Health Physicist		5/12/17
BRANCH CHIEF	Aaron T. McCraw, Chief, MIB		5/17/17

Docket File Information

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6. INSPECTION PROCEDURES USED 87126	7. INSPECTION FOCUS AREAS 03.01 - 03.07
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 01100	2. PRIORITY 2	3. LICENSEE CONTACT Ronald Dobey, CHP, RSO	4. TELEPHONE NUMBER (573) 882-5218
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Main Office Inspection Next Inspection Date: May 12, 2018
 Field Office Inspection _____
 Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection, as part of the Region III broad scope initiative, of the broad scope materials authorization for the research reactor (R-103/050-00186) operated by the University of Missouri. The licensee was authorized for byproduct material with atomic numbers 1-96 and numerous sealed sources and other isotopes for R&D. The licensee operated a Type A broad scope program and established a RSC to review uses, users and facilities. At the time of this inspection, the licensee authorized 14 research projects. The RSC approved approximately 50 project leaders (authorized users) and met quarterly to conduct business. The daily oversight of the radiation safety program was performed by a dedicated full-time RSO, supported by 3 health physicists, 1 health physics supervisor, and 5 health physics technicians.

This inspection consisted of interviews with licensee personnel; a review of selected records; tours of numerous laboratories and hot cells, storage, and the shipping area; and independent measurements. The inspection included observations of use of RAM within the hot cells, security of licensed material, and use of personnel monitoring and surveys. The inspection included a review of a new R&D laboratory where the licensee will conduct plant studies using C-11. The laboratory was equipped with shielded lines for direct transfer of the C-11 from the adjacent cyclotron, operated by Essential Isotopes.

The maximum personnel exposures were reported as follows (in millirem):

	2016	YTD 2/28/2017
WB	738	172
extremity	4,788	935

No violations of NRC requirements were identified during this inspection.