

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

The Curators of the University of Missouri
311 Jesse Hall
Columbia, MO 65211
REPORT NUMBER(S) 2011-001

2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4351

3. DOCKET NUMBER(S)
030-02278

4. LICENSEE NUMBER(S)
24-00513-32

5. DATE(S) OF INSPECTION
May 23-27, 2011

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

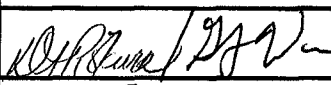
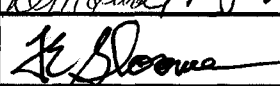
_____ Non-cited violation(s) were discussed involving the following requirement(s):



4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11

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/Geoffrey M. Warren		5/27/2011
Branch Chief	Tamara E. Bloomer		6/6/11

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE The Curators of the University of Missouri Columbia, MO REPORT NUMBER(S) 2011-001	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532
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3. DOCKET NUMBER(S) 030-02278	4. LICENSEE NUMBER(S) 24-00513-32	5. DATE(S) OF INSPECTION May 23-27, 2011
6. INSPECTION PROCEDURES 87126	7. INSPECTION FOCUS AREAS 03.01 - 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM 02110	2. PRIORITY 2	3. LICENSEE CONTACT Jack Crawford, RSO	4. TELEPHONE NUMBER 573-882-7221
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☒ Main Office Inspection

Next Inspection Date: May 2013

☐ Field Office Inspection

☐ Temporary Job Site Inspection

PROGRAM SCOPE

The University of Missouri had an enrollment of approximately 31,000 students and 2,000 faculty members at the Columbia campus. The radiation safety department was staffed with a full-time Radiation Safety Officer (RSO), three health physicists, three health physics technicians, one assistant, and clerical staff shared with other programs. The University operated a Type A broad scope medical and research program with 160 individuals acting as principle investigators. Approximately 830 individuals acting as researchers used licensed material under the supervision of the authorized users. Licensed material was used for research and development including animal studies in 400 labs. The majority of the licensee's studies involved standard research isotopes (CHIPS), but some protocols included work with depleted uranium and other isotopes. The University possessed numerous sealed sources including a calibration source as described on the license. Waste materials were decayed in storage or disposed through incineration and sewerage disposal.

This inspection focused on research and development activities, including activities at the veterinary hospital. The next routine inspection should focus on the medical program, including the satellite hospitals.

Performance Observations

The inspectors observed administration of a diagnostic veterinary dose, including dose preparation and disposal; laboratory research activities; laboratory surveys; tracking of waste materials; laboratory audits, surveys, and wipe tests by radiation safety staff; and survey meter calibration; and licensee personnel demonstrated surveys and waste incineration activities. The inspectors toured a large number of laboratories and the veterinary hospital and reviewed licensee records concerning radiation safety committee meetings, audits, and dosimetry. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. The inspectors performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.