

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

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| 1. LICENSEE/LOCATION INSPECTED: Missouri State University 901 South National Avenue Springfield, MO 65897 | 2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Suite 210 Lisle, Illinois 60532-4351 |
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| 3. DOCKET NUMBER(S) 030-18583 | 4. LICENSEE NUMBER(S) 24-11585-04 | 5. DATE(S) OF INSPECTION April 22, 2010 |
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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:

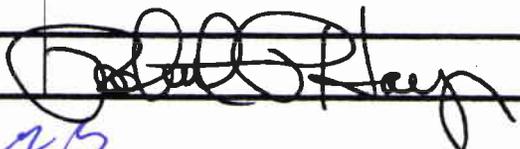
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(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.
(Violations and Corrective Actions)

Licensee's Statement of Corrective Actions for Item 4, above.

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 | Robert P. Hays |  | 4/22/10 |

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**SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION**

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| 1. LICENSEE Missouri State University REPORT NUMBER(S) 2010-01 | | 2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532 | |
| 3. DOCKET NUMBER(S) 03018583 | 4. LICENSE NUMBER(S) 24-11585-04 | 5. DATE(S) OF INSPECTION April 20, 2010 | |
| 6. INSPECTION PROCEDURES USED 87126 (9/28/05) | 7. INSPECTION FOCUS AREAS 03.01-03.07 | | |

SUPPLEMENTAL INSPECTION INFORMATION

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| 1. PROGRAM CODE(S) 03620 | 2. PRIORITY 5 | 3. LICENSEE CONTACT Erin Parrish, RSO | 4. TELEPHONE NUMBER 417-836-4132 |
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Main Office Inspection Next Inspection Date: **April 2015**

Field Office **Dept. of Fruit Science, Missouri State University Research Campus, 9740 Red Spring Road, Mountain Grove, Missouri.**

Temporary Job Site Inspection

PROGRAM SCOPE

The licensee was a state institution of higher learning authorized for research, development and student instruction. Use of licensed material involved iodine-125, phosphorus-32, or sulfur-35 for various biological research projects. Research projects at the Fruit Science Research Campus involved DNA protocols using phosphorus-32. No other research isotopes were used at this campus. Licensed activities involved one authorized user and periodically, students under the direct supervision of the authorized user. All P-32 waste was held for decay-in-storage (DIS) for more than ten half-lives prior to disposal as regular trash. Inspector area surveys of the waste storage areas and research lab areas did not reveal any elevated readings and were consistent with licensee postings and records.

Performance Observations

During the inspection, the RSO and authorized user demonstrated/discussed: (1) survey meter use; (2) package ordering, receiving, and check-in procedures; (3) contamination surveys and wipe test counting; (4) dosimetry; (5) research waste handling and storage procedures; (6) isotope inventory control; (7) security of licensed material; (8) approvals for research investigators; (9) radiation safety lab audits; (10) staff training; and (11) records of receipt, use, and disposals of licensed material.

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