

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Curators of the Univeristy of Missouri Kansas City Administrative Center 5115 Oak Street Kansas City, MO 64110 REPORT NUMBER(S) 2014001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-32693	4. LICENSE NUMBER(S) 24-00513-37	5. DATE(S) OF INSPECTION 12/03-04/2014
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6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 1100	2. PRIORITY 3	3. LICENSEE CONTACT Susan Masih, RSO	4. TELEPHONE NUMBER (816) 235-5289
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Main Office Inspection Next Inspection Date: 12/03/2017
 Field Office Inspection
 Temporary Job Site Inspection

PROGRAM SCOPE

This was a routine announced inspection of an academic type A broad scope licensee, operated by the State of Missouri. The licensee performs research and development (R&D) on a campus that has a current student population of approximately 15,000. The licensee has approximately 200 radiation workers who are under the supervision of approximately 34 authorized user permit holders. The licensee conducts R&D primarily using C-14, H-3, although other radionuclides were used including Na-22, P-33, and Cf-252. The licensee has one user authorized for animal studies, but no studies were in progress at the time of the inspection. The licensee was recently approved for H-3 sealed source accelerator tubes for use in a neutron generator. The licensee disposes of waste by decay in storage or shipments to a licensed waste facility. The licensee does not dispose of waste in the sanitary sewer. The RSO reports to the radiation safety committee that meets quarterly. The health physics office was staffed with the RSO and one HP technician.

Performance Observations

The inspectors verified that radioactive materials stored in labs and in the waste storage building were secured from unauthorized access. The inspectors reviewed the neutron generator operation and licensee staff demonstrated the procedures for using the generator including searches of the building to ensure no one is present in the building outside the control station. The inspectors also reviewed neutron generator calculations for projected neutron dose rates during generator operation. The inspectors observed radiation safety staff perform a laboratory audit. The inspectors toured the waste storage building and noted that radioactive waste collection drums were properly labeled. The inspectors toured several laboratories and performed independent and confirmatory radiation measurements, which indicated results consistent with licensee survey records and postings. The inspector reviewed: radiation safety committee meeting minutes; annual audit of the radiation safety program for 2012 and 2013; waste disposal records; instrument calibration records; authorized user permits; inventory records; and laboratory audits. The inspector reviewed dosimetry records and noted that maximum DDE exposures were less than one percent of the NRC limits in 10 CFR Part 20.

No violations of NRC requirements were identified.