

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

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|---|--------------------------------------|--|--|
| 1. LICENSEE/LOCATION INSPECTED: University of Michigan Ann Arbor, Michigan REPORT NUMBER(S) 030-01988/09-001 | | 2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Suite 210 Lisle, Illinois 60532-4351 | |
| 3. DOCKET NUMBER(S) 030-01988 | 4. LICENSEE NUMBER(S) 21-00215-04 | 5. DATE(S) OF INSPECTION April 7 to April 9, 2009 | |

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 | George M. McCann | <i>George M. McCann</i> | 04/15/09 |

NRC FORM 591M
PART 2
(10-2003) 10 CFR 2.201

U.S. NUCLEAR REGULATORY
COMMISSION

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| 1. LICENSEE University of Michigan | | 2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532 | | |
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| 6. INSPECTION PROCEDURES USED 83890 & 83822 | | 7. INSPECTION FOCUS AREAS 03.01-03.07 | |

SUPPLEMENTAL INSPECTION INFORMATION

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|-----------------------------|------------------|---|-------------------------------------|
| 1. PROGRAM CODE(S) 02110 | 2. PRIORITY 2 | 3. LICENSEE CONTACT Mark L. Driscoll RSO | 4. TELEPHONE NUMBER 734-647-2251 |
|-----------------------------|------------------|---|-------------------------------------|

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|--|--------------------------|
| <input checked="" type="checkbox"/> Main Office Inspection | Next Inspection Date: NA |
| <input type="checkbox"/> Field Office | |
| <input type="checkbox"/> Temporary Job Site Inspection | |

PROGRAM SCOPE

The University of Michigan (U of M) decided to permanently decommission the Ann Arbor Kresge Complex of Medical Research which is located principally along the northeast quadrant of the intersection of Zina Pitcher Place and East Ann Street, Ann Arbor, Michigan, 48109. U of M's radioactive materials usage at the Kresge complex consisted of research and development activities as defined in 10 CFR 30.4. The Kresge Complex, with a total of more than 259,000 ft² of floor area, consists of six interconnected buildings located at the U of M's Medical School Campus. The first buildings date back to 1954. All the buildings housed traditional laboratory rooms along with some research animal care facilities. All research activities have ceased in the impacted buildings and all laboratory rooms have undergone closeout procedures by U of M staff. The radioactive materials significant to NRC decommissioning requirements used at the U of M Ann Arbor Kresge Complex consist of carbon-14, chlorine-36, hydrogen-3, and sodium-22.

The U of M has contracted with a decommissioning contractor (Chase Environmental Group) to perform decommissioning activities that consist of characterization, remediation, final status surveys, and development of a final report. The contractor is performing on-site activities under a reciprocity agreement with the NRC using Kentucky Radioactive Materials License No. 201-605-90.

Decommissioning of the Kresge Complex is projected to be completed by July 1, 2009 after which the buildings are slated for demolition. The end goal is to decommission, and remediate the facility if necessary, to radiological levels consistent with 10 CFR Part 20, Subpart E, Section 20.1402 "Radiological Criteria for Unrestricted Use." The licensee is using NRC NUREG 1757, Vol. 1, Table B.1 "Acceptable License Termination Screening Values of Common Radionuclides for Building-Surface Contamination," to determine compliance with the NRC dose limits. The licensee has also established As Low As Reasonably Achievable (ALARA) limits using NRC Regulatory Guide 1.86 limits. The contractor submitted a decommissioning work plan to the NRC on March 23, 2009.

Performance Observations

The NRC inspectors toured the impacted areas of the licensee's facility, and observed the decommissioning service contractor's activities. The inspectors verified that complete control of the building facilities had been turned over from U of M personnel to the decommissioning service contractor. The facilities access was restricted to only Chase personnel and the access points were correctly labeled with Chase Environmental Group's contact information regarding building control. During the inspection a door was found by the inspectors to be propped open. U of M promptly issued a site-wide notice which stated that the Kresge Complex was off-limits to everyone except Chase. The licensee expressed an interest in issuing a 30.36d notification once the decommissioning activities were completed to file under the docket for any future concerns regarding the Kresge Complex.

No violations of NRC requirements were identified

*Reviewed by
W. Small for
C. Lipa 4/21/09*