

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Chase Environmental Group University of Michigan Kresge Complex Ann Arbor, Michigan REPORT NUMBER(S) 2009-001		2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Suite 210 Lisle, Illinois 60532-4351	
3. DOCKET NUMBER(S) 150-00016	4. LICENSEE NUMBER(S) 201-605-90	5. DATE(S) OF INSPECTION April 7 to April 9 and May 7, 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>	05/29/09

GW
5/29/09

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

U.S. NUCLEAR REGULATORY
COMMISSION

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(Continued)

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6. INSPECTION PROCEDURES USED 83890 & 83822		7. INSPECTION FOCUS AREAS 03.01-03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03225	2. PRIORITY 5	3. LICENSEE CONTACT Ken Gavlik PM	4. TELEPHONE NUMBER 865-851-5202
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Main Office Inspection Next Inspection Date: NA

Field Office _____

Temporary Job Site Inspection University of Michigan Ann Arbor Kresge Complex

PROGRAM SCOPE

This was a reciprocity inspection of Chase Environmental Group (Chase). Chase was contracted by the University of Michigan (U of M) to decommission the Ann Arbor Kresge Complex of Medical Research. Decommissioning will be conducted under the provisions of the Chase Commonwealth of Kentucky radioactive materials license number 201-605-90 under reciprocal agreement with the NRC. The activities include characterization, remediation, final status surveys, and development of a final report. The inspection was conducted at the Ann Arbor Kresge Complex, which belongs to the University of Michigan, NRC License No. 21-00215-04, and Docket No. 030-01988. The 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.

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 NRC NUREG 1757, Vol. 1, Table B.1 "Acceptable License Termination Screening Values of Common Radionuclides for Building-Surface Contamination," is being used by the licensee 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 inspectors conducted an in office review of the Historical Site Assessment and the Decommissioning Work Plan submitted by the licensee. During the inspection, inspectors toured the impacted areas of the Kresge Complex, and observed the licensee's decommissioning activities. The inspectors reviewed Chase's Kentucky license and NRC reciprocity agreement, the Chase Radiological Services Manual and Procedures including the cover letter, worker training qualifications and documentation, survey packages, survey instrument documentation, radiation work permit for remediation, and a check source certificate. The inspectors' activities consisted of side by side surveys with the licensee's technicians, random and deliberate (where records indicated a prior spill had occurred) independent confirmatory surveys, and collection of wipe tests for removable radiological contamination. The inspectors collected 24 wipe tests for removable contamination and sent the samples to the NRC's contracted laboratory, Oak Ridge Science and Education Institute, for analysis. Results of the analysis did not identify any unknown removable contamination in excess of the established ALARA limits. Other inspection activities consisted of observation of licensee's personnel use of survey instrumentation and protective clothing, licensee personnel interviews, and examination of the licensee's tracking tools and status board of decommissioning work performed at the facilities.

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.

No violations of NRC requirements were identified.

*CL
5/29/09*