

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Ball State University 2000 West University Avenue Muncie, IN 47306 REPORT 2007-001	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Lisle, Illinois 60532-4351	
3. DOCKET NUMBER(S) 030-00700	4. LICENSEE NUMBER(S) 13-06231-01	5. DATE(S) OF INSPECTION March 29, 2007

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.

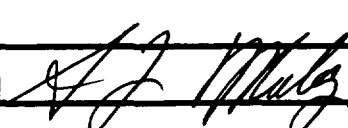
_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

- 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	S. J. Mulay		3/29/07

Docket File Information
SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION

1. LICENSEE Ball State University REPORT 2007-001		2. NRC/REGIONAL OFFICE Region III 2443 Warrenville Road Lisle, IL 60532	
3. DOCKET NUMBER(S) 030-00700	4. LICENSE NUMBER(S) 13-06231-01	5. DATE(S) OF INSPECTION March 29, 2007	
6. INSPECTION PROCEDURES 87126	7. INSPECTION FOCUS AREAS 03.01-03.07		
SUPPLEMENTAL INSPECTION INFORMATION			
1. PROGRAM 1110	2. PRIORITY F1B-5	3. LICENSEE CONTACT Mohammed Islam, Ph.D., RSO	4. TELEPHONE NUMBER 765-285-8066
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: March 2012	
<input type="checkbox"/> Field			
<input type="checkbox"/> Temporary Job Site			

PROGRAM SCOPE

This academic research program maintains about 21 laboratories and other use areas located in four building locations on campus as specified in submitted documentation. Of the 21 authorized laboratories, approximately 10 are currently active. The primary isotope used is phosphoreus-32 with occasional tritium and carbon-14 in various microcurie quantities and used primarily in DNA studies. Approximately four active, committee approved users are currently on campus. A student radiation safety technician is assigned to the RSO and is responsible for performance of routine monthly and quarterly use area audits, wipes, surveys, etc.

The Radiation Safety Officer is located in Room 101, Cooper Science Complex (Building 26).

Performance Observations

Licensed material is ordered through the RSO who verifies the amount and user prior to delivery to the specific laboratory. Packages are entered into the licensee's tracking log and waste is maintained in the laboratory for decay. According to the RSO, packages are not left unattended if no one is available to receive. Possession limits and inventory control of licensed material appear adequately maintained.

Interviews conducted with the RSO, authorized users and laboratory staff revealed an adequate level of understanding of emergency and material handling procedures and techniques. Daily and monthly area surveys/wipes (as used) are performed by the AU with additional surveys (at least quarterly) by the RSO. The RSO also performs six month program audits which appear to adequately oversee existing licensed activities.

Approximately six laboratories/storage locations were toured during the review. Licensed material was observed adequately secured and/or under surveillance and was not readily accessible to members of the general public. Use and storage locations were adequately posted. Available survey instrumentation was properly calibrated and operable. A laboratory accompaniment with the licensees student technician was performed and revealed adequate survey technique and audit ability.

Independent measurements taken of the available laboratory, storage room and unrestricted areas did not demonstrate readings approaching twice background levels (50 cpm).

Personal dosimetry records demonstrated whole-body readings for 2006 were "M". Whole body readings for YTD 2007 revealed 23 mRem. Extremity badges are not required based on low beta-emitting quantities used.