

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Ball State University
2000 West University Avenue
Muncie, Indiana 47306

REPORT NUMBER(S): 11-01

2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532

3. DOCKET NUMBER(S)

030-00700

4. LICENSEE NUMBER(S)

13-06231-01

5. DATE(S) OF INSPECTION

June 15, 2011

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) were discussed involving the following requirement(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

Statement of Corrective Actions

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	Andrew M. Bramnik	<i>Andrew M. Bramnik</i>	6/15/2011
Branch Chief	Tamara E. Bloomer	<i>T. Bloomer</i>	6/22/11

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE Ball State University REPORT NUMBER(S) 11-01	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532
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3. DOCKET NUMBER(S) 030-00700	4. LICENSEE NUMBER(S) 13-06231-01	5. DATE(S) OF INSPECTION June 15, 2011
6. INSPECTION PROCEDURES 87126	7. INSPECTION FOCUS AREAS 03.01 – 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM 1110	2. PRIORITY 3	3. LICENSEE CONTACT Dr. Mohammed Saiful Islam - RSO	4. TELEPHONE NUMBER 765-285-8066
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☒ Main Office Inspection

Next Inspection Date: June 2014

☐ Field Office Inspection _____

☐ Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of an academic research program. The university's Radiation Safety Committee (RSC) had approved 10 laboratories and storage areas as approved locations for radioactive material use or storage. The primary isotopes used by the university were microcurie amounts of P-32, C-14, and H-3 for labeling reactions and DNA replication studies. Since the previous inspection, the licensee had decommissioned several laboratories, and disposed of several sources including their Picker neutron generator. A graduate student worked with the Radiation Safety Officer (RSO) to conduct routine surveys of approved radiation use and storage locations, and assist overseeing the program.

PERFORMANCE OBSERVATIONS

The RSC had approved 10 Authorized Users (AUs) to order and utilize radioactive materials; however, at the time of the inspection, no radioactive materials were being used. All licensed material was required to be ordered through the RSO, who verified that the amount and proposed use had been approved by the RSC prior to ordering. All deliveries of radioactive materials were made to the RSO, who then delivered the materials to the specific laboratories. The university most recently ordered microcurie-quantity sources in October 2010 and November 2007.

Interviews conducted with available staff revealed an adequate level of understanding of emergency and materials handling procedures and techniques. The licensee possessed a survey meter that was calibrated, operational, and performed well in side-by-side comparison with an NRC survey meter. The graduate student assistant performed monthly surveys of authorized locations, which consisted of area dose rate surveys, ambient count rate surveys, and wipe samples. The RSO observed and participated in one such survey every quarter. The RSO also prepared an annual audit report to the RSC every June.

The inspector toured seven laboratories and storage areas, and observed that licensed material was adequately secured and not readily accessible to members of the general public. Independent measurements did not indicate readings in excess of Title 10 of the Code of Federal Regulations (10 CFR) Part 20 limits in restricted or unrestricted areas. Personal whole body dosimetry was required to be worn by the RSO and the graduate student during radiation safety surveys, and was required for AUs when utilizing more than 1 millicurie of P-32. Records did not indicate doses in excess of 10 CFR Part 20 limits since the previous inspection.

No violations were identified during this inspection.