

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Ball State University
2000 West University Avenue
Muncie, IN 47306

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

REPORT NUMBER(S) 17-01

3. DOCKET NUMBER(S)

030-00700

4. LICENSE NUMBER(S)

13-06231-01

5. DATE(S) OF INSPECTION

May 11, 2017

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:

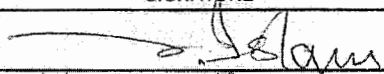
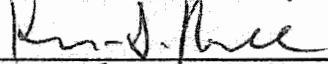
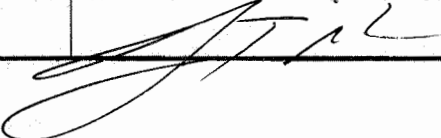
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, 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 in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
(Violations and Corrective Actions)

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	Mohammed Islam		5/11/17
NRC INSPECTOR	Kevin G. Mullen		5/11/17
BRANCH CHIEF	ARON T. McCRAW		5/19/17

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Ball State University
2000 West University Avenue
Muncie, IN 47306

REPORT NUMBER(S) 2017001

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-00700

4. LICENSE NUMBER(S)

13-06231-01

5. DATE(S) OF INSPECTION

May 11, 2017

6. INSPECTION PROCEDURES USED

87126

7. INSPECTION FOCUS AREAS

03.01 - 03.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)

1100

2. PRIORITY

3

3. LICENSEE CONTACT

Mohammed Islam, Ph.D.

4. TELEPHONE NUMBER

(765) 285-8066

Main Office Inspection Next Inspection Date: May 2020

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine, unannounced inspection of an academic broadscope institution authorized to possess and use millicurie quantities of hydrogen-3, carbon-14, calcium-45, iodine-125, and isotopes with atomic number 1-83 with half lives less than or equal to 120 days for research and development studies as defined in 10 CFR Part 30. At the time of the inspection, the licensee was using microcurie quantities of carbon-14 and hydrogen-3 (Violation B from NRC IR 2014001 now closed). The University's Radiation Safety Committee (RSC) approved 8 authorized users to use licensed material in 9 laboratories. The laboratories were located in the Cooper Science and Medical Education buildings on campus. The RSC, which met on a quarterly basis, was comprised of a chairperson and 8 members from various departments in the university.

Performance Observations:

Accompanied by the radiation safety officer (RSO), the inspector toured 4 RSC-approved laboratories and the radioactive waste storage area. The RSO described how he performed a physical inventory of licensed material every 3 months (Violation A from NRC IR 2014001 now closed), the methods and frequency that he used to conduct initial and annual refresher training for occupational workers and janitorial staff, and the performance of quarterly confirmatory surveys of laboratories where licensed material was used or stored. The inspector reviewed RSC meeting minutes dated December 16, 2016, and March 21, 2017, reports for the 2015 and 2016 annual radiation safety program audits conducted by the RSO, records of survey meter calibrations performed by RSSI, Morton Grove, IL, and records of radioactive waste disposal. The RSO described the discovery of 2 old vials of tritium in an RSC-approved laboratory. The vials were discovered by a member of the RSC, who notified the RSO. The RSO placed the vials in secured storage for future disposal and showed the inspector where the material was discovered. At the request of the inspector, the RSO performed and analyzed smears for contamination where the vials were found. The smears were negative for removable contamination. The inspector conducted independent surveys with a Canberra Model MRAD213 survey meter, calibrated on 2/17/17. No radiation levels above background (0.05 mR/hr) were identified. No violations of NRC requirements were identified during this inspection.