

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Indiana University Jordan Hall 1001 E. Third Street Bloomington, IN 47405 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) 030-00692	4. LICENSE NUMBER(S) 13-00108-05	5. DATE(S) OF INSPECTION November 1 & 2, 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			
NRC INSPECTOR	Dennis P. O'Dowd	<i>Dennis P. O'Dowd</i>	11/17/17
BRANCH CHIEF	Aaron T. McCraw	<i>Aaron T. McCraw</i>	11/21/17

Docket File Information

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<p>3. DOCKET NUMBER(S)</p> <p>030-00692</p>	<p>4. LICENSE NUMBER(S)</p> <p>13-00108-05</p>	<p>5. DATE(S) OF INSPECTION</p> <p>November 1 & 2, 2017</p>
<p>6. INSPECTION PROCEDURES USED</p> <p>87126</p>	<p>7. INSPECTION FOCUS AREAS</p> <p>All</p>	

SUPPLEMENTAL INSPECTION INFORMATION

<p>1. PROGRAM CODE(S)</p> <p>01101</p>	<p>2. PRIORITY</p> <p>5</p>	<p>3. LICENSEE CONTACT</p> <p>Gregory P. Crouch, M.P.H., M.S., RSO</p>	<p>4. TELEPHONE NUMBER</p> <p>(812) 855-3230</p>
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Main Office Inspection Next Inspection Date: 11/01/2020

Field Office Inspection _____

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of an academic institution authorized to use licensed material for research and development, irradiation of biological materials, calibration of the licensee's survey instruments, and measurement of physical properties of materials. The University enrolled approximately 44,000 students, and employed approximately 1800 faculty. At the time of the inspection, the licensee's RSO had approved approximately 40 Principal Investigators (PIs) and/or Individual Users of licensed material under the University's Type B Broad Scope program; however, only approximately 20 of those individuals were actively using radioactive material at any time. The licensee's radiation safety staff consisted of three individuals: a full-time RSO, a full-time Radiation Safety Specialist, and a part-time Radiation Safety Assistant. The licensee received approximately 200 shipments of licensed material per year, primarily unsealed P-32 for research and development activities. All licensed materials were received at the radiation safety office. Radiation safety staff performed quarterly audits for each location where unsealed materials were actively used.

PERFORMANCE OBSERVATIONS

The inspection consisted of interviews with select licensee personnel; review of select records; tours of radioactive material use and storage areas at various buildings on campus, and independent measurements. The inspector observed select laboratories approved for radioactive material use; the irradiator room, the calibration facility, use and storage areas for measurement devices; and the licensee's waste storage areas. Interviews with licensee personnel, including PIs and authorized users, revealed that staff has a sufficient knowledge of radiation safety and emergency procedures. The inspector conducted independent surveys in the unrestricted areas near the radioactive materials and determined that all unrestricted areas were below regulatory limits. The inspector reviewed inventory tracking system records and determined that the licensee had a system in place to account for all materials. The inspector also reviewed the records of sealed source leak test results and inventory, periodic and annual audits, surveys, waste disposal, radioactive materials receipt, instrument calibration, training, and dosimetry. A violation (SLIV) of NRC requirements identified during an inspection conducted on 02/26-27/13 (ref. IR 03000692/13001(DNMS)), regarding the licensee's failure to leak test licensed devices in storage within a period of no longer than 10 years, was reviewed and determined to have been corrected. This item is closed. Two other previously cited SLIV violations of NRC requirement, both concerning security (ref. IR 03000692/2013002(DNMS)), were reviewed, were determined to have been corrected, and are closed as well. No violations of NRC requirements were identified within the scope of this inspection.

O'Dowd, Dennis

From: O'Dowd, Dennis
Sent: Tuesday, November 21, 2017 11:53 AM
To: gcrouch@iu.edu
Subject: Inspection Report (IR) NRC Form 591M Part 1 (11/01-02/2017)
Attachments: Indiana University - Bloomington Inspection Report NRC Form 591 clear (11-01-2017).pdf

Mr. Greg Crouch
Director of Radiological Safety
IU Radiation Safety Officer
Indiana University
Jordan Hall 071
1001 E. Third Street
Bloomington, IN 47405

Dear Mr. Crouch:

As we discussed this morning by telephone, attached is a copy of the report (NRC Form 591M, Part 1) of the inspection conducted on November 1 and 2, 2017, of activities involving the use of radioactive materials authorized by NRC Materials License No. 13-00108-05. As you are aware, there were no violations of NRC requirements identified as a result of this inspection, and therefore, you are not required to respond to this message or the report.

In accordance with the NRC's "Rules of Practice," a copy of this message, and the report, will be made available electronically for public inspection in the NRC's web site at <http://www.nrc.gov/reading-rm-adams.html>.

Thank you for your cooperation during the inspection.

Should you have any questions regarding this or any other related matter, please do not hesitate to contact me.

Dennis P. O'Dowd
Health Physicist
Materials Inspection Branch
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission
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