

**INSPECTION RECORD**

Region III Inspection Report No. 2008-001

License No. 13-09639-05

Docket No. 030-00706

Licensee (Name and Address):

Indiana State University  
Department of Environmental Safety  
Terre Haute, IN 47809

Location (Authorized Site) Being Inspected  
As Above

Licensee Contact: Dale Manwaring, RSO Telephone No. 812-237-2050

Priority: 5 Program Code: 3611

Date of Last Inspection: 11/18/03

Date of This Inspection: 11/06-12/05/08

Type of Inspection: ( ) Initial ( ) Announced (X) Unannounced  
( ) Routine ( ) Special

Next Inspection Date: November 2013 (X) Normal ( ) Reduced  
Justification for reducing the routine inspection interval:

**Summary of Findings and Actions:**

- ( ) No violations cited, clear U.S. Nuclear Regulatory Commission (NRC) Form 591 or regional letter issued
- ( ) Non-cited violations (NCVs)
- ( ) Violation(s), Form 591 issued
- (X) Violation(s), regional letter issued
- ( ) Followup on previous violations

Inspector(s) Samuel J. Mulay Date 12/09/08

Approved John R. Madera Date 12/10/08  
John R. Madera, Chief, MIB

## PART I-LICENSE, INSPECTION, INCIDENT/EVENT, AND ENFORCEMENT HISTORY

1. AMENDMENTS AND PROGRAM CHANGES:

(License amendments issued since last inspection, or program changes noted in the license)

<u>AMENDMENT #</u>	<u>DATE</u>	<u>SUBJECT</u>
# 19	6/14/05	Add Rubidium-86

2. INSPECTION AND ENFORCEMENT HISTORY:

(Unresolved issues; previous and repeat violations; Confirmatory Action Letters; and orders)

**No violations were identified during the last inspection**

3. INCIDENT/EVENT HISTORY:

(List any incidents, or events reported to NRC since the last inspection. Citing "None" indicates that regional event logs, event files, and the licensing file have no evidence of any incidents or events since the last inspection.)

**None**

## PART II - INSPECTION DOCUMENTATION

1. ORGANIZATION AND SCOPE OF PROGRAM:

(Management organizational structure; authorized locations of use, including field offices and temporary job sites; type, quantity, and frequency of material use; staff size; delegation of authority)

**Diane McKee, Asst. Vice President/Business Affairs**

\* + **David Ellis, Coordinator/Environmental Safety**

# \* + **Dale Manwaring, RSO**

# Individual(s) present at entrance meeting

\* Individual(s) present at preliminary exit meeting conducted on 11/06/08

+ Individuals present during final exit meeting via telephone on 12/05/08

2. SCOPE OF INSPECTION:

(Identify the inspection procedure(s) used and focus areas evaluated. If records were reviewed, indicate the type of record and time periods reviewed)

Inspection Procedure(s) Used: **87124** Focus Areas Evaluated: **03.01- 03.07**

**This small academic program currently maintains approximately eight laboratories, about five of which are active utilizing primarily H3, Cr-51, C-14, and P-32 in laboratory research and student instruction. The licensee possesses one cesium-137 calibration device for instrument calibration on campus.**

**Approximately four shipments of licensed material are received annually and**

distributed by the RSO to the final user following package check-in procedures. The RSO collects generated radwaste from laboratories and delivers it to designated waste storage. Waste is shipped through an authorized vendor or sewer after decay in storage.

The inspector toured approximately four laboratories and designated storage areas which were appropriately posted and secured. Interviews conducted with the RSO, members of management, and laboratory research staff revealed an adequate knowledge of material handling, security and emergency procedures.

During the review, the inspector was informed by the RSO that in 2003, the licensee took possession of 2 fixed gauges each containing 2 millicuries of radium-226 as a result of demolition activities of a coal fired power plant on campus. These devices have been in the possession of the RSO and in secured storage since that time. See Section 4, this part, for additional information.

3. INDEPENDENT AND CONFIRMATORY MEASUREMENTS:

(Areas surveyed, both restricted and unrestricted, and measurements made; comparison of data with licensee's results and regulations; and instrument type and calibration date)

Independent measurements taken did not indicate readings in excess of overall background (0.04 mr/hr) in restricted and unrestricted areas. Wipe test samples obtained of selected laboratories did not indicate removable contamination.

4. VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES:

(State the requirement, how and when the licensee violated the requirement, and the licensee's proposed corrective action plan. For NCVs, indicate why the violation was not cited. Attach copies of all licensee documents needed to support violations.)

10 CFR 30.3(c)(2) requires, in part, that except as provided in paragraph (b)(2) of this section, a licensee, shall submit an amendment application within 6 months from the waiver expiration date to possess accelerator-produced radioactive material or discrete sources of radium-226.

On November 30, 2007, the NRC published a Notice of Waiver Termination for licensees in the State of Indiana which stated, in part, that the NRC was terminating the waiver for persons possessing accelerator-produced radioactive material or discrete sources of radium-226. The Notice further stated that the final rule allowed an additional 6-month period from the effective date of the final rule to apply for a license amendment; i.e. May 30, 2008.

Contrary to the above, for the period May 30, 2008 through November 14, 2008, a period in excess of 6 months from the effective date of the final rule, the licensee possessed two fixed gauges each containing 2 millicuries of radium-226 and did not submit a license amendment request to possess these sources.

In a letter received via fax by Region III on 11/14/08, the licensee requested a license amendment to reflect the addition of radium-226 to account for this material on the current license. In addition, the licensee was given the telephone number of CRCPD to obtain information for disposal of these devices.

5. PERSONNEL CONTACTED:  
(Identify licensee personnel contacted during the inspection, including those individuals contacted by telephone.)

**See Part 2, Section 1.**

-END-