

ENCLOSURE 6 - INSPECTION RECORD

Region: III      Inspection Report No. 2016001

License No. 21-13583-01  
Docket No. 030-29444

Licensee: Hope College  
27 Grave Place  
Holland, MI 49422

Locations Inspected: Same as above  
35 E. 12<sup>th</sup> Street, Holland, MI

Licensee Contact: David Daugherty, RSO

Telephone No. (616) 395-7519

Program Code: 03620      Priority: 5

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

Last Inspection Date: 06/24/2011

Date of This Inspection: 06/26/2016 with in-office review through 07/14/2016

Next Inspection Date: 06/23/2021

(X) Normal      ( ) Reduced

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
- ( ) Follow-up on previous violations

Inspector(s) Edward Harvey, Health Physicist

  
\_\_\_\_\_  
Signature

Date 8/8/2016

Approved Aaron McCraw, Chief, MIB

  
\_\_\_\_\_  
Signature

Date: 8/8/16

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

### 1. AMENDMENTS AND PROGRAM CHANGES SINCE LAST INSPECTION:

<u>AMENDMENT #</u>	<u>DATE</u>	<u>SUBJECT</u>
18	01/28/2013	Renewal

### 2. INSPECTION AND ENFORCEMENT HISTORY:

The last inspection of this licensee was on 2011-06-24T00:00:00. No violations of NRC requirements were identified.

### 3. INCIDENT/EVENT HISTORY:

There were no open items or events since the last routine inspection.

## **PART II - INSPECTION DOCUMENTATION**

### 1. ORGANIZATION AND SCOPE OF PROGRAM:

Hope College is an academic institution authorized under NRC Materials License No. 21-13583-01 to use licensed material at two locations for academic research and student instruction. The licensee primarily used licensed material for the calibration of detection instrumentation used for laboratory experiments. Although authorized, no in-vitro studies were performed under the license since 2013.

### 2. SCOPE OF INSPECTION:

Inspection Procedure(s) Used: 87126

Focus Areas Evaluated: All

During the inspection, the inspector toured two research labs and the radioactive materials storage room, interviewed licensee personnel, performed radiation surveys, and reviewed select records. An interview with the RSO revealed that a majority of the work performed under the license was calibration of lab equipment within the physics lab. No radioactive material had been used in the chemistry lab, located in a separate building, since 2013. The inspector reviewed a selection of licensee records for inventories, leak tests, use logs, radiation safety training, dosimetry, and radiation safety committee meeting minutes.

After further in-office review, the inspector informed the RSO, by telephone, of the decommissioning timeliness requirements because more than 24 months had passed since the licensee last used material in the separate chemistry lab building that contained unsealed, licensed, microcurie quantities of carbon-14 and hydrogen-3 such that the building was unsuitable for release in accordance with NRC requirements. The RSO explained that the staff would like to maintain that location of use on the license

and that they will resume principle activities in the chemistry lab at a frequency of at least 24 months to ensure compliance.

3. INDEPENDENT AND CONFIRMATORY MEASUREMENTS:

Using an NRC owned Ludlum Model 2403 survey meter with a Model 44-38 energy-compensated GM detector calibrated on June 23, 2016, the inspector conducted independent surveys at each location of use. The inspector found no readings indicating residual contamination or exposures to members of the public in excess of regulatory limits.

4. VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES:

10 CFR 30.36(d) requires, in part, that licensees provide notification to the NRC in writing within 60 days of any of the following occurrences:

- (1) The license has expired;
- (2) The licensee has decided to permanently cease principal activities at the entire site or in any separate building or outdoor area that contains residual radioactivity such that the building or outdoor area is unsuitable for release in accordance with NRC requirements;
- (3) No principal activities under the license have been conducted for a period of 24 Months; or
- (4) No principal activities have been conducted for a period of 24 months in any separate building or outdoor area that contains residual radioactivity such that the building or outdoor area is unsuitable for release in accordance with NRC requirements.

Contrary to the above, as of June 23, 2016, the licensee failed to notify the NRC in writing within 60 days of no principal activities under the license being conducted in a separate building that contained residual radioactivity for a period of 24 months. Specifically, the licensee had not conducted principal activities in the building located at 35 E. 12<sup>th</sup> Street, under NRC License No. 21-13583-01 from April 6, 2013, through June 23, 2016, a period greater than 24 months, without providing the required notification.

As corrective action, the licensee planned to resume principal activities in the building at 35 E. 12<sup>th</sup> Street at a frequency of at least 24 months.

5. PERSONNEL CONTACTED:

# David Daugherty, RSO

# Attended exit meeting on July 14, 2016.