

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Hope College Physics Department VanderWerf Hall 27 Grave Place Holland, MI 49422</p> <p>REPORT NUMBER(S) 2019001</p>	<p>2. NRC/REGIONAL OFFICE</p> <p>Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352</p>	
<p>3. DOCKET NUMBER(S)</p> <p>030-29444</p>	<p>4. LICENSE NUMBER(S)</p> <p>21-13583-01</p>	<p>5. DATE(S) OF INSPECTION</p> <p>February 14, 2019</p>

**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:

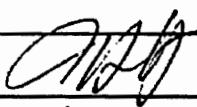
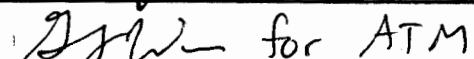
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Luis Nieves Folch		2/25/2019
BRANCH CHIEF	Aaron T. McCraw	 for ATM	2/26/19

**Docket File Information**

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Hope College Physics Department VandeWerf Hall 27 Grave Place Holland, MI 49422  REPORT NUMBER(S) 2019001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
---	---

3. DOCKET NUMBER(S)  030-29444	4. LICENSE NUMBER(S)  21-13583-01	5. DATE(S) OF INSPECTION  February 14, 2019
--------------------------------------	---	---

6. INSPECTION PROCEDURES USED  87124	7. INSPECTION FOCUS AREAS  03.01-03.08
--	--

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03620	2. PRIORITY  5	3. LICENSEE CONTACT  Dave Daugherty, RSO	4. TELEPHONE NUMBER  (616) 395-7519
---------------------------------	----------------------	--	---

Main Office Inspection                      Next Inspection Date: February 14, 2024  
 Field Office Inspection \_\_\_\_\_  
 Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was an unannounced, routine inspection of the Hope College license. The licensee possessed material under this license for calibration of detection instrumentation for laboratory experiments and research. At the time of the inspection the licensee possessed a PuBe source, H-3, and an assortment of other isotopes as sealed sources that were exempt quantities. The RSO conducted source inventories and area surveys in accordance with the terms of the license. Access to all materials was restricted to authorized users.

**Performance Observations**

At the time of the inspection the lab in the Peale Science Center was been used for cell research using H-3 and the lab in VanderWerf Physics-Mathematics Hall was used to to calibrate detection instruments for laboratory experiments utilizing a linear accelerator. This inspection consisted of tours of the two laboratories used to store and handle the material, a review of selected records, interviews with licensee staff, and independent surveys. The inspector reviewed dosimetry reports, survey calibration records, leak test records, inventories, survey records, and utilization logs.

During the last inspection, one violation was identified for failure to use the laboratory in the Peale Science Center for more than 24 months for the purposes intended on the NRC license. The licensee completed corrective action as described. The inspector reviewed the corrective actions by reviewing the utilization log in the lab and interviewing the authorized user that handles material in that lab. This violation is closed.

No violations of NRC requirements were identified as a result of this inspection.

**From:** Nieves Folch, Luis  
**Sent:** Tuesday, February 26, 2019 8:47 AM  
**To:** Warren, Geoff  
**Subject:** FW: Hope College 591  
**Attachments:** Hope College - 591M.pdf

**From:** Nieves Folch, Luis  
**Sent:** Tuesday, February 26, 2019 8:39 AM  
**To:** 'daugherty@hope.edu' <daugherty@hope.edu>  
**Subject:** FW: Hope College 591

Dear Mr. Daugherty,

Attach is the clear 591 report for the inspection conducted on February 14, 2019. At this point there is no further actions on your part.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this message will be available electronically for public inspection in the NRC's Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <http://www.nrc.gov/reading-rm/adams.html>.

Please feel free to contact me if you have any questions regarding this correspondence.

Thank you,

Luis Nieves  
Health Physicist  
U.S. Nuclear Regulatory Commission  
Division of Nuclear Materials Safety  
Office: (630) 829-9571  
Fax: (630) 515-1259