

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<p>1. LICENSEE/LOCATION INSPECTED:</p> <p>Central Michigan University Smith 103 Mt. Pleasant, MI 48640</p> <p>REPORT NUMBER(S) 2013-001</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>030-00811</p>	<p>4. LICENSE NUMBER(S)</p> <p>21-01432-02</p>	<p>5. DATE(S) OF INSPECTION</p> <p>9/5/2013</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:

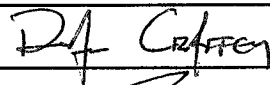
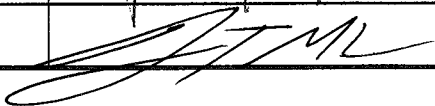
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Ryan Craffey		9/5/13
BRANCH CHIEF	Aaron McCraw		9/9/13

**Docket File Information**

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3. DOCKET NUMBER(S)  030-00811	4. LICENSE NUMBER(S)  21-01432-02	5. DATE(S) OF INSPECTION  September 5, 2013
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6. INSPECTION PROCEDURES USED  87126	7. INSPECTION FOCUS AREAS  All
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**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03620	2. PRIORITY  5	3. LICENSEE CONTACT  Jennifer Walton, PhD - RSO	4. TELEPHONE NUMBER  (989) 774-4189
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Main Office Inspection      Next Inspection Date: September 2018  
 Field Office Inspection  
 Temporary Job Site Inspection

**PROGRAM SCOPE**

This licensee maintains a limited scope academic program at its 20,000-student campus in Mount Pleasant, MI. At the time of inspection, three authorized users on the license were considered active. Two of the users supervise research labs which use unsealed quantities of H-3 and C-14 in radiolabeled compounds for medical and biological research, while the third user supervises a physics teaching laboratory which uses an Am-241 neutron generator and a variety of sealed reference sources for instructional purposes. The licensee also possesses one generally-licensed gas chromatograph containing Ni-63. The RSO provides radiation worker training to individuals who use radioactive materials, and radiation awareness training to individuals who work around or but not with the materials. The licensee provides dosimetry, exchanged monthly, to individuals who use the neutron generator or who use x-ray generating devices. The RSO inventories semiannually all sealed and exempt sources, and inventories quarterly all unsealed material during audits of the active laboratories. The RSO also reviews the content and implementation of the radiation safety program every spring, and a Radiation Safety Committee, with members representing each department involved in the use of radioactive material, reviews proposed updates to the radiation safety program, including protocols, procedures, authorized users and locations of use.

**PERFORMANCE OBSERVATIONS**

The inspector toured three active laboratories and their associated waste storage locations. All locations were adequately secured, posted, and free of hazards to licensed material. Independent surveys of controlled and uncontrolled facilities found no readings which would indicate residual contamination. The inspector interviewed the RSO, one authorized user, a member of the licensee's shipping and receiving department, and three students who worked with radioactive material. All were knowledgeable of radiation safety principles. The students also demonstrated procedures for area surveys, spill response, and waste handling. The inspector reviewed a selection of licensee records, including RSC meeting minutes, quarterly laboratory audits, annual program reviews, material procurement and receipt documentation, training materials and attendance records, dosimetry, leak test results, area contamination survey results, and inventory records, which when sampled reflected the licensee's actual possession.

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