

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/CERTIFICATE HOLDER <b>Michigan State University Office of Radiation, Chemical &amp; C124 Engineering Research East Lansing, MI 48824</b>	2. REGIONAL OFFICE <b>US NRC - Region III 2443 Warrenville Road Lisle, IL 60532</b>
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REPORT NUMBER(S) 2007-001-

3. DOCKET NUMBER(S) <b>030-06956</b>	4. LICENSE/CERTIFICATE NUMBER(S) <b>21-00021-30(Irradiators)</b>	5. DATE(S) OF INSPECTION <b>February 26-28, 2007</b>
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Inspection Procedures Used:  
**87122**Inspection Focus Areas: **02.03 thru 02.11; 02.12e, 02.13 thru 02.14; 02.16 thru 02.19; and 02.21.**

## LICENSEE/CERTIFICATE HOLDER:

The inspection was an examination of the activities conducted under your license/certificate as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license/certificate. 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, NUREG-1600, to exercise discretion, were satisfied.

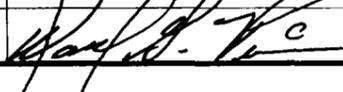
\_\_\_\_\_ non-cited violation(s) were discussed involving the following requirement(s):

\_\_\_\_\_

4. During this inspection certain of your activities, as described in the attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

## STATEMENT OF CORRECTIVE ACTIONS

I hereby state that, within 30 days, the actions described by me to the inspector and as described in the attachment 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/ CERTIFICATE HOLDER	<b>Kristin Erickson, RSO</b>		<b>2/ 1/2007</b>
NRC INSPECTOR	<b>Darrel G. Wiedeman</b>		<b>2/26/2007</b>

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Supplemental Inspection Information

Program Code(s): <b>03510</b>	Priority: <b>5</b>	Licensee Contact: <b>Kristin Erickson, RSO</b>	Telephone No.: <b>517-355-5008</b>
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- Main Office Inspection                      Next Inspection Date: **02/2012**
- Field Office **see this report for locations inspected**
- Temporary Job Site Inspection

**Program Scope**

This licensee is a State of Michigan owned and operated university. Currently the licensee has a student population of 50,000 students. This inspection consisted of an in-depth review of the licensee's self-shielded/self-contained irradiator programs including a routine inspection of its broadscope programs. During this inspection the licensee had seven active users at the East Lansing campus and nine active users at the Grand Rapids campus. At this time all irradiator users and irradiators are monitored for wholebody exposures to workers and environmental radiation levels. The inspector reviewed monitoring records for CY 2006-2007 and concluded that no worker or member of the public received a wholebody dose in excess of the limits specified in 10 CFR Part 20. In conjunction of this routine inspection the inspector conducted an inspection of the Increased Controls (ICs) for licenses No. 21-00021-30 (see Report No. 2007-002).

The inspector toured the irradiator facilities located at the East Lansing and Grand Rapid campuses. These irradiators are used to irradiate human blood, small mammals (mice) and a variety of inanimate objects as part of it's research protocols. The Grand Rapids facility is staffed 24 hours/day, 7 days per week. Both irradiators were leak tested at 6-month intervals and the leak test records showed <.005 microcuries of removable contamination.

According to the licensee staff that were interviewed, since the last NRC inspection there have been no fires, explosions, or fatalities involving radioactive materials, or over exposures to radiation. The inspector did not identify anything contrary to the above statements made by licensee staff.

No violations of NRC requirements were identified.

