



DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF HEALTH SERVICE REGULATION

ROY COOPER  
GOVERNOR

MANDY COHEN, MD, MPH  
SECRETARY

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March 3, 2017

Terry Yoshizumi, PhD., RSO  
Duke University Medical Center  
OESO Radiation Safety Office  
2214 Elder Street  
Durham, NC 27705

SUBJECT: Reactive Inspection of activities authorized by N.C. Radioactive Materials License Nos. 032-0247-1, -A1 & -A2

Dear Dr. Yoshizumi:

On February 15-17, 2017, the North Carolina (NC) Radiation Protection Section (RPS) investigated the activities of NC Licenses 032-0247-1, -A1 & -A2 to ensure that proper response actions were taken with regard to a compromised Uranium-235 source. I appreciate the courtesy and cooperation we received while conducting this reactive inspection.

In addition to the findings of noncompliance during this inspection, RPS finds it necessary to impress upon Duke University a concern for the observed negative safety culture. This is evidenced by employees disregard for raised safety concerns from researchers, improper reporting to radiation safety and failure to conduct immediate leak tests and contamination surveys which might have stopped the spreading of U-235 contamination into uncontrolled areas.

The enclosed summary report lists items of noncompliance with 10A NCAC 15, which were observed during the reactive inspection and requires your attention.

Your response to each inspection finding should be as follows:

- **Item of Noncompliance:** You must provide a written response to the agency and that response must include:
  - a. an explanation as to why the item occurred;
  - b. what actions have been taken to correct the item; and,
  - c. what actions have been taken to ensure that the item will not recur.

**Each compliance report is subject to review and consideration for Escalated Enforcement based upon this report and your compliance history. Escalated Enforcement typically takes the form of one or more of the following actions:**

- **increased inspection frequency;**
- **an enforcement conference;**
- **assessment of a civil penalty.**

**If Escalated Enforcement is deemed appropriate, your management will be notified under separate cover of the pending action. Escalated enforcement actions are separate processes outside of the scope of this standard Noncompliance Summary Report.**

Please notify the agency no later than **March 31, 2017** of the corrective action taken to clear the noncompliance items.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Travis Cartoski, Health Physicist  
Radioactive Materials Branch

**RADIATION PROTECTION SECTION**

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