NRC FORM 591M PART 1
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

# SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

| 1. LICENSEE/LOCATION INSPECTED: | 2. NRC/REGIONAL OFFICE |
|---|---|
| Department of the Army<br>14030 MSCoE Loop<br>Fort Leonard Wood, MO 65473<br><br>REPORT NUMBER(S) 2019-001 | Region III<br>U. S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, IL 60532-4352 |

| 3. DOCKET NUMBER(S) | 4. LICENSE NUMBER(S) | 5. DATE(S) OF INSPECTION |
|---|---|---|
| 030-35257 | 24-32221-01 | 8/8/19 |

**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 violations(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 | Kevin G. Null | K. G. Null | 8/8/19 |
| BRANCH CHIEF | | | 9/3/19 |

NRC FORM 591M PART 3
(07-2012)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

*Docket File Information*

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| Department of the Army<br>14030 MSCoE Loop<br>Fort Leonard Wood, MO 65473<br><br>REPORT NUMBER(S) 2019001 | Region III<br>U. S. Nuclear Regulatory Commission<br>2443 Warrenville Road, Suite 210<br>Lisle, IL 60532-4352 |

| 3. DOCKET NUMBER(S) | 4. LICENSE NUMBER(S) | 5. DATE(S) OF INSPECTION |
|---|---|---|
| 030-35257 | 24-32221-01 | August 8, 2019 |

| 6. INSPECTION PROCEDURES USED | 7. INSPECTION FOCUS AREAS |
|---|---|
| 87126 | All |

## SUPPLEMENTAL INSPECTION INFORMATION

| 1. PROGRAM CODE(S) | 2. PRIORITY | 3. LICENSEE CONTACT | 4. TELEPHONE NUMBER |
|---|---|---|---|
| 3610 | 3 | Eric Hanson, Director and RSO | (573) 563-6207 |

☑ Main Office Inspection  Next Inspection Date: 08/08/2022

☐ Field Office Inspection

☐ Temporary Job Site Inspection

## PROGRAM SCOPE

This was a routine, unannounced inspection of a research and development (R&D) Type A broad scope program. The licensee was authorized to use byproduct materials with atomic numbers 3-83, in any form, up to 100 millicuries per radionuclide for R&D, as defined in 10 CFR 30.4, and for student instruction. The licensee was also authorized to use a variety of sealed and plated sources for instrument calibration and radiation detection testing, and four portable moisture/ density gauges for student instruction. At the time of inspection, the licensee was not conducting any R&D studies and was primarily using sealed and plated sources for student instruction in radiation safety practices and principals. The licensee had an inventory of 172 sealed and plated sources that were stored in a secured vault, 18 of which required leak testing in accordance with the license. The licensee's training program was part of the Department of the Army's chemical, biological, radiological, and nuclear school. The licensee was staffed by a radiation safety officer (RSO), three civilian health physicists (HPs), and two non-commissioned military HPs. The licensee had a radiation safety committee (RSC) to approve users and research studies.

Performance Observations

The inspector toured the licensee's facilities where radioactive materials and survey meter instrumentation was stored, and interviewed the Director/RSO and two non-commissioned military HPs. The HP staff members demonstrated a high level of knowledge and practical experience in health physics and the safe use of radioactive materials. The inspector observed adequate security controls in areas where sealed sources were stored and used, adequate radiation detection and measurement instrumentation, and confirmed that instruments were appropriately calibrated as required.

The inspector reviewed sealed source leak test and physical inventory records, personal dosimetry records since the last inspection, and confirmed compliance with conditions described in the NRC license. The inspector also reviewed RSC records, specifically focusing on documentation pertaining to RSC-approval of three authorized users.

No violations of NRC requirements were identified during this inspection. The inspector reviewed and verified the licensee's corrective actions to two security-related violations from the previous inspection. Both are now closed.