

October 4, 2006

Mr. Paul D. Cloud
ACSIM, DA BRAC-JPG
Building 6, E5183, Room 5
Aberdeen Proving Ground, MD 21010-5424

SUBJECT: NRC INSPECTION REPORT 040-08838/06-01(DNMS)

Dear Mr. Cloud:

On September 18, 2006, the NRC completed an inspection at the Jefferson Proving Ground. The purpose of the inspection was to determine whether decommissioning activities were conducted safely and in accordance with NRC requirements. Specially, the inspector evaluated site security and radiation protection program. At the conclusion of the inspection on September 18, 2006, the NRC inspector discussed the findings with members of your staff.

The inspection consisted of an examination of decommissioning activities at the Jefferson Proving Ground as they relate to safety and compliance with the Commission's rules and regulations. Areas examined during the inspection are identified in the enclosed report. Within these areas, the inspection consisted of a selective examination of procedures and representative records, and interviews with personnel.

Based on the results of this inspection, the NRC did not identify any violations.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

/RA/

Jamnes L. Cameron, Chief
Decommissioning Branch

Docket No. 04008838
License No. SUB-1435

Enclosure:
Inspection Report 040-08838/06-01(DNMS)

cc w/encl: J. Smith, Indiana State Department of Health

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RIII Enf. Coordinator

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 040-08838

License No: SUB-1435

Licensee: Department of the Army

Facility: Jefferson Proving Ground

Location: Madison, Indiana

Date: September 18, 2006

Inspector: P. J. Lee, Ph.D., CHP, Health Physicist

Approved By: Jamnes L. Cameron, Chief
Decommissioning Branch

Enclosure

EXECUTIVE SUMMARY

Jefferson Proving Grounds NRC Inspection Report 040-08838/06-01(DNMS)

This routine decommissioning inspection covered aspects of licensee's site security, and radiation safety associated with field work at the Depleted Uranium Impact Area.

Security and Posting

- The inspector determined that the licensee maintained the site security in accordance with the security plan.

Radiation Safety

- The inspector determined that the licensee conducted the field work in accordance with the Health and Safety Plan.

Report Details

1.0 Background

Jefferson Proving Ground (JPG) was originally issued Source Material License No. SUB-1435, on December 16, 1983, which authorized the possession of depleted uranium (DU) for projectile testing. The DU projectiles were fired at soft targets and impacted on the ground beyond the targets. Projectiles were periodically recovered from the impact area and stored onsite prior to shipment back to the manufacturer. Firing of DU projectiles continued until September 1994. Overall, the JPG firing range comprises 52,000 acres. The DU impact area consists of approximately 2,000 acres located in the south central portion of the firing range. Approximately 80,000 kilograms of DU projectiles remain in the impact area.

On October 11, 1995, representatives from the Indiana State Department of Health contacted the NRC Division of Waste Management regarding concerns about the degraded condition of the fence line surrounding the firing range. The NRC issued a Confirmatory Action Letter (CAL) dated October 13, 1995, confirming actions to be taken regarding the fencing and security of the firing range as agreed upon during an October 12, 1995, conference call with Army staff. The CAL also confirmed the NRC's understanding that Army staff would provide a plan to ensure adequate security of radioactive material at JPG and to ensure that perimeter gates were monitored or locked. The licensee documented the security program requirements in the JPG Security Plan.

On June 22, 2006, the licensee had an agreement with the contractor SAIC to provide radiological service associated with the site characterization to support the decommissioning in five years.

2.0 Security and Posting (87104)

2.1 Inspection Scope

The inspector reviewed the JPG Security Plan, which detailed the licensee's security program. The inspector interviewed individuals responsible for site security and toured the perimeter of the DU impact area and the security fence surrounding the facility.

2.2 Observations and Findings

To provide for security, a fence surrounds the JPG firing range area, and all gates are locked. Access to the site is restricted to those individuals authorized by the Site Manager. A full-time employee monitors and maintains the security fence. The security fence was inspected daily by the licensee. The security fence was well maintained.

The licensee maintained barricades on all roads approaching the DU area. The licensee posted warning signs around the perimeter of the DU area that included the radiation hazard symbol and the words "Caution, Radioactive Materials." The postings were adequate to prevent accidental or unintentional entry into the DU contaminated area.

2.3 Conclusions

The inspector determined that the licensee maintained the site security in accordance with the security plan.

3.0 **Radiation Safety (87104)**

3.1 Inspection Scope

The inspector reviewed the licensee's Health and Safety Plan, records of radiological training, and contamination surveys to assess the radiological safety for works performed in the DU impact area.

3.2 Observations and Findings

Review of radiological training, and contamination survey records identified that the workers had received the appropriated training and no contaminated materials had been removed from the DU impacted area.

During the inspection, the SAIC was installing the stream gauging equipment to measure the flow rate which will be used to assess the potential of the DU migrating outside the DU Impact Area. During the observation of the field works, there were no findings related to the radiation safety.

3.3 Conclusions

The inspector determined that the licensee conducted the field work in accordance with the Health and Safety Plan.

4.0 **Exit Meeting**

The inspector presented the inspection results to members of the licensee's staff at the conclusion of the inspection on September 18, 2006. The licensee did not identify any of the documents or processes reviewed by the inspector as proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

- * P. Cloud, Soldier and Biological Chemical Command
H. Anagnostopoulos, SAIC
- * Indicates individual present during the exit meeting on September 18, 2006.

INSPECTION PROCEDURE USED

IP 87104: Decommissioning Inspection Procedure for Materials Licensees