

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

<p>1. LICENSEE/LOCATION INSPECTED: <b>Location Inspected:</b>   <b>U.S. Department of the Army</b>  <b>Jefferson Proving Ground</b>  <b>Madison, IN 47250</b>                  REPORT NUMBER(S)                      2008-001</p>	<p>2. NRC/REGIONAL OFFICE   <b>U.S. Nuclear Regulatory Commission</b>  <b>Region III</b>  <b>2443 Warrenville Road</b>  <b>Suite 210</b>  <b>Lisle, Illinois 60532-4351</b></p>
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<p>3. DOCKET NUMBER(S) <b>040-08838</b></p>	<p>4. LICENSEE NUMBER(S) <b>SUB-1435</b></p>	<p>5. DATE(S) OF INSPECTION <b>JULY 14-18, 2008</b></p>
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**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, NUREG-1600, to exercise discretion, were satisfied.

\_\_\_\_\_ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(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. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

Licensee's Statement of Corrective Actions for Item 4, above.

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	Sam Mulay		7/18/08

CL  
7/31/08

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AND COMPLIANCE INSPECTION**

1. LICENSEE <b>U. S. Department of the Army</b> REPORT NUMBER(S) <b>2008-001</b>		2. NRC/REGIONAL OFFICE <b>Region III</b> <b>2443 Warrenville Road, Suite 210</b> <b>Lisle, IL 60532</b>	
3. DOCKET NUMBER(S) <b>040-08838</b>	4. LICENSE NUMBER(S) <b>SUB-1435</b>	5. DATE(S) OF INSPECTION <b>July 14-18, 2008</b>	
6. INSPECTION PROCEDURES USED <b>87104</b>		7. INSPECTION FOCUS AREAS <b>See Performance Observation Section below</b>	

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) <b>11220</b>	2. PRIORITY <b>K5</b>	3. LICENSEE CONTACT <b>Paul Cloud, Site RSO</b>	4. TELEPHONE NUMBER <b>410-436-2381</b>
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Main Office Inspection      Next Inspection Date: **July 2013 or to be determined.**

Field Office **Jefferson Proving Ground, Madison, IN**

Temporary Job Site Inspection

**PROGRAM SCOPE**

This licensee is authorized to possess 80,000 kilograms of depleted uranium as possession only for the purpose of site decommissioning.

Jefferson Proving Ground (JPG) is an approximately 55,000 acre facility used for the testing of a variety of munitions and penetrators involving depleted uranium (DU), between 1983 until testing was terminated in September 1994. The JPG firing range comprises approximately 52,000 acres north of the firing line. Within the 52,000 acre area is the 2,000 acre DU impact area which contains approximately 70,000 kilograms of DU in the form of penetrators and projectiles. Unexploded ordnance (UXO) remains the primary hazard at this facility. The area south of the firing line is designated as a 2,000 acre cantonment area which houses administrative staff, and members of the U.S. Fish and Wildlife Service.

An 8 foot chain-link fence surrounds the entire perimeter of the site which is posted as "Government Property-No Trespassing". In addition, a fence has been installed and surrounds the 2,000 acre DU impact area. Interior roads leading into the impact area are barricaded and posted as radiation areas to restrict access. Gates to the impact area remain locked with key access to authorized onsite personnel (Army personnel, contract employees, the Indiana Air National Guard (IANG), and the U.S. Fish and Wildlife Service (FWS).

The Army has an agreement with an outside contractor (Science Applications International Corp.-SAIC) to provide radiological services associated with site characterization to support decommissioning activities. It is the licensee's intent to ultimately characterize the site for restricted release.

**Performance Observations**

The inspector toured the facility which included observations of the overall condition of the site perimeter fence as well as the interior fence surrounding the impact area. Gates were locked and interior roads leading to the impact area were barricaded and posted as radiation areas. Records of weekly fence inspections conducted by members of the IANG and any subsequent maintenance performed were reviewed and appeared to be adequate.

Approximately 44 new and existing ground water monitoring wells are used to evaluate water for the presence of DU. The inspector accumulated split water samples from 12 surface and groundwater locations. Surveys taken of each collection bottle following sampling did not indicate readings above background. Collection bottles were sent to ORISE for alpha spectrometry with the results currently pending. Of the wells either sampled or observed during the review, all were properly capped and locked.

Survey instruments were reviewed for proper calibration and operation for both SAIC and units used by the Army with no problems noted. SAIC performs quarterly sampling of sediment and surface and ground water to evaluate any migration of DU from the soil into the water table. Excerpts from an SAIC monitoring performed in October 2007 and outlined in the report dated May 2008, (ML081280145), revealed no evidence of DU in ground and surface water samples collected. SAIC sampling results for July 2008 are currently pending.

CU  
7/31/08