



Science Applications International Corporation
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September 20, 2002

Tom McLaughlin
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20852-2738

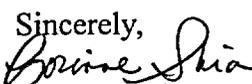
Dear Mr. McLaughlin:

In accordance with the U.S. Army's direction and in support of its request for termination of Jefferson Proving Ground (JPG)'s License SUB-1435 under restricted release conditions, Science Applications International Corporation (SAIC) is submitting the attached referenced material for your information. This information includes electronic or hard copies of references cited in the Jefferson Proving Ground (JPG) Environmental Report (June 2002) and Decommissioning Plan (June 2002).

Attachment 1 lists the documents and the type of copy (hardcopy or electronic) provided. One document is available online (FWS 2001) and the website address is provided. Please note that a copy of the U.S.G.S. document (Buligosi 1990) is on order and will be forwarded when received. Furthermore, copies of the two remaining documents (i.e., Davis 1990 and SEG 1995b) will be provided once located.

Attachment 2 includes responses to specific information requested in the NRC's Environmental Review Guidance for Licensing Actions Associated with NMSS Programs (NUREG-1748). Please note that this guidance document was reviewed when the Environmental Report was prepared. Related information was included in the ER if it was available.

Please call Ms. Joyce Kuykendall (SBCCOM) at (410) 436-7118 if you have any questions.

Sincerely,

Corinne Shia
Project Manager

cc:
Joyce Kuykendall, SBCCOM
Paul Cloud, SBCCOM

Attachments 1 and 2
Enclosures (CDs and document)



ATTACHMENT 1

Table 1. Requested JPG Decommissioning Plan (June 2002) References

Reference	Comment
MWH (Montgomery Watson Harza). 2002. <i>Draft Final Remedial Investigation, JPG</i> . Prepared for USACE Louisville District under Contract DACW27-97-D-0015, 008. March	Provided electronically, except for appendices. Appendices currently being scanned and will be provided if requested.
Rust E&I (Rust Environment and Infrastructure). 1994. <i>JPG South of the Firing Line Final Draft Remedial Investigation (Phase I)</i> . Prepared for USAEC, Aberdeen Proving Ground, Maryland. July	Provided electronically, except for appendices. Appendices currently being scanned and will be provided if requested.
Rust E&I. 1998. <i>JPG South of the Firing Line Phase II Draft Remedial Investigation</i> . Prepared for USAEC, Aberdeen Proving Ground, Maryland August.	Provided electronically.
SEC Donahue, Inc. 1992. <i>Letter Report of Site Specific Sampling and Analysis Program Results</i> . Prepared for U.S. Army Toxic and Hazardous Materials Agency. August.	Provided electronically.
SEG (Scientific Ecology Group, Inc.). 1995a. <i>Jefferson Proving Ground Depleted Uranium Support Facilities Final Survey Report (NRC License No SUB-1435)</i> , Revision 0, February.	Provided electronically.
SEG. 1995b. <i>Technical Basis Document, Use of the In Situ Gamma Spectroscopy System to Determine Soil Activity Concentrations</i> , July.	Document is being located. Will forward copy to NRC once received.
SEG. 1995c. <i>JPG Depleted Uranium Impact Area, Scoping Survey Report. Volumes 1-3</i> . March.	Provided electronically.
SEG. 1996. <i>Jefferson Proving Ground Depleted Uranium Impact Area Characterization Survey Report Volume 1</i> . Oak Ridge, Tennessee. February.	Provided electronically.
U.S. Army. 2002. "Standard Operation Procedure (SOP). Depleted Uranium Sampling Program, Environmental Radiation Monitoring Program, JPG, Indiana." SOP No. OHP 40-2. March 10.	Provided electronically. Note: Date should be 2000, not 2002.



ATTACHMENT 1 (Continued)

Table 2. Requested JPG Environmental Report (June 2002) References

Reference	Comment
Bugliosi, E. 1990. <i>Plan of Study for the Ohio-Indiana Carbonate-Bedrock and Glacial Aquifer System</i> . USGS Open File Report 90-151.	Requested from USGS Will forward copy to NRC once received.
Davis. 1990. <i>Environmental Assessment for Testing Uranium Penetrator Munitions at U.S Army Combat Systems Test Activity, Aberdeen Proving Ground, Maryland</i> .	Document is being located. Will forward copy to NRC once received.
FWS. 2001e. <i>Environmental Assessment for the Big Oaks National Wildlife Refuge Fire Management Plan</i> . Madison, Indiana. March.	Available online at http://midwest.fws.gov/BigOaks/
SEC Donahue, Inc. 1992. <i>Letter Report of Site Specific Sampling and Analysis Program Results</i> . Prepared for U.S. Army Toxic and Hazardous Materials Agency. August.	Provided electronically.
Sheldon, R. 1997. <i>JPG Karst Study Report</i> . Madison, Indiana.	Provided electronically.
Williams et al. 1998. <i>Potential Health Impacts from Range Fires at Aberdeen Proving Ground, Maryland</i> . ANL/EAD/TM-79. Prepared for the U.S. Army, Directorate of Safety, Health, and Environment, for APG by Argonne National Laboratory. March.	Hard copy provided.



ATTACHMENT 2

Table 1. Information Requested in NRC's Environmental Review Guidance for Licensing Actions Associated with NMSS Programs (NUREG-1748)

Information	Response
1. ER - Page 3-6 - Characterization refers to the SEG 1996 study and references are made to biological sampling, water, vegetation, etc. Are the results of all of these sampling parameters captured in the SEG report? and, if not, what are the appropriate references for them	Yes, and the results are summarized in this section (Section 3.1.3.2)
2. See References Section 7 attached of both the ER and DP.	See listings by reference (Tables 1 and 2) of Attachment 1 and their availability.
3. Section 6 of NUREG 1748 Pages 96-98 are attached Items that are needed in the ER that are flagged. Suggest using the references in section 7 of the ER and identify them by page number and reference so that they can be matched up with the items in the report	See response to each information request below
3a. Water Resources. Maps showing: <ul style="list-style-type: none"> • The spatial and temporal relationship of the site to the major surface and subsurface hydrological systems such as aquifer systems and drainage basins; • Surface and subsurface systems that could be affected by facility withdrawals and/or discharges (cross sections where feasible) 	<p>Figure 2-8. Groundwater Contours are for well elevations (ft) All the data were collected in 1992.</p> <p>Figure 2-7 shows the major surface water drainage areas for the entire installation.</p> <p>Additional, but limited information (for the areas south of the firing line), is located in the RIs</p>
3b. Mean, range, and temporal and spatial variations of the subsurface and surface water quality characteristics including water temperature, chemical, biological, and physical characteristics typically monitored (WWW at <http://www.epa.gov/storet>),	<p>Section 2.6.1, page 2-17, of the ER indicates that this information is not available on EPA's STORET for JPG.</p> <p>Note that available information on water quality characteristics (chemical and biological data) for the DU Impact Area is provided in Section 3 of the ER.</p>
3c. Descriptions of preexisting environmental conditions and their effects on subsurface, and surface water quality (e.g., water bodies at or near the site that do not meet established water quality standards) and quantity	Section 2.6.1, page 2-17, indicates that there are no pollutant sources with discharges to water bodies in the area north of the firing line
3d. Surface Water Characteristics <ul style="list-style-type: none"> • Description of the floodplain and its relationship to the site (WWW at <http://www.fema.gov/mitltsd/>); and • Description of the design-basis flood elevation, and, where applicable, the design-basis flood discharge 	Section 2.6.1, page 2-17, indicates that JPG is not located within a floodplain, therefore, the requested information is not relevant.



ATTACHMENT 2 (Continued)

Information	Response
<p>3e. Freshwater Streams</p> <ul style="list-style-type: none"> • Major streams, size of drainage areas, and gradient; • Historic monthly flow information, including maximum, average-maximum, average, average-minimum, and minimum flow, • Historical drought stages and discharges by month and the 7-day once in-10 -yr low flow; and • Important short-duration flow fluctuations (e.g., diurnal release variations from peaking operation of upstream hydroelectric project) 	<p>Available information on freshwater streams is provided in Section 2.6.1 and Figure 2-7.</p> <p>Page 2-17 of the ER indicates that detailed flow information is not available for the JPG streams</p> <p>Refer to Attachment 1 (Flood and Sediment Analyses of Appendix C which details modeling results of flood flow for given return periods and associated sediment transport and yield for the Big Creek Watershed.</p>
<p>3f. Groundwater Characteristics</p> <ul style="list-style-type: none"> • Historical and seasonal trends in ground water elevation or piezometric levels; • Piezometric contour maps, water table contour maps, and hydraulic gradients (historical, if available, and current), • Flow travel time (ground water velocities), • Soil properties, including permeabilities or transmissivities, storage coefficients or specific yields total and effective porosities clay content, and bulk densities; • Interactions among different aquifers, 	<p>Available information on groundwater characteristics on the DU Impact Area is provided in Section 2.6.2, Table 2-5, and Figures 2-8 and 2-9</p> <p>Soil properties are presented in Section 2.5, Figures 2-3, 2-4, 2-5, and 2-6.</p> <p>JPG lies within a single aquifer with three hydrostratigraphic units; therefore, interactions among different aquifers is not relevant. Information on the three hydrostratigraphic units is provided in the ER (Section 2.6.2)</p> <p>Additional information on groundwater characteristics in the area south of the firing line is located in the RIs. For example, refer to the Montgomery Watson Draft Final RI (March 2002) Section 2.6, and Appendices A to M, which include geotechnical data, soil boring data, surface soil/sediment data; monitoring well borehole, construction, purge, and sampling data; and aquifer test data</p>
<p>4. Page 3-15, paragraph 3.22 of the ER. The ER states that South of the firing line contaminated ground water was found. Was DU included in the analysis? Was it included in any reports completed? Do we have copies of the analytical reports? We need to provide them to the NRC.</p>	<p>Total uranium was not sampled in the groundwater during the remedial investigations of the area South of the Firing Line</p> <p>As noted in Section 3 of the ER, sampling was conducted for contamination in various studies, including the SEG scoping and characterization surveys and the SEC Donahue report, which sampled groundwater and streams for various contaminants, including total uranium</p>
<p>5. Page 2.33, Section 2 Landfill Map. There is a 2 identified at the boundary of the Impact Area. How close is it and was there groundwater contamination present here?</p>	<p>Figure 2-13 is referenced in Section 2.13 of the ER. This 12-acre landfill is <1/2 mile from the western border of the DU Impact Area and was capped in 1995 during landfill closure procedures</p> <p>The 2002 RI indicates there are low concentrations of VOCs, SVOCs, and metals in groundwater. Section 12 of this document contains detailed information on groundwater sampling results.</p>