

Recommendation 09-01  
October 16, 2008



Paducah Gaseous Diffusion Plant  
Citizens Advisory Board

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## Recommendation: 09-01

*Approved at the Citizens Advisory Board Meeting, October 16, 2008*

### **Title: Additional Scan Areas to Scoping Survey Plan**

#### **Background:**

The Paducah Gaseous Diffusion Plant (PGDP) is an active uranium enrichment facility owned by the U.S. Department of Energy (DOE). Historical surveys have identified low levels of radioactively contaminated soil and sediment, concrete rubble, culverts, and construction debris from legacy activities on the DOE Reservation outside the Limited Security Area at the PGDP. Most radioactively contaminated areas identified by these surveys are along Little Bayou Creek, Bayou Creek, North-South Diversion Ditch and outfall ditches.

During various dredging and maintenance activities of the creeks and outfall ditches, contaminated sediments and debris were deposited along the banks. Contaminated rubble, which includes construction items and some associated soil and other debris, has been identified. To date, visual inspections and limited radiological surveys have been performed along the creeks and ditch banks to identify contaminated soil and other materials.

DOE has issued a scoping survey plan that proposes walkover surveys of a gridded area including the plant and immediate surrounding area as well as a flyover survey. The surveys are designed to locate and assess land surface anomalies associated with plant operations. A series of aerial photographs will be taken to yield high resolution images of the Paducah Site terrain.

The scoping plan also proposes to conduct a flyover radiation survey of the DOE Reservation to identify radioactively contaminated surface soils. The flyover radiation survey has been postponed until Safety Basis documents for the United States Enrichment Corporation (USEC) and Paducah Remediation Services (PRS) can be revised to address the risk associated with air traffic over the plant site and approved by the appropriate regulatory authorities (Nuclear Regulatory Commission for USEC and DOE for PRS).

#### **Recommendation:**

**The Citizens Advisory Board recommends that:**

**If DOE decides to pursue the radiation survey flyover plan, the area of the flyover should be expanded to include the DOE reservation and the West Kentucky Wildlife Management Area. Specifically, the CAB would like for DOE to include the area west of the Paducah site to Bethel Church Road, east to Mayfield Metropolis Road, south to Woodville Road and north to the Ohio River.**