

PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

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Consensus Recommendation: 05-01

Submitted for discussion by the Waste Task Force, January 20, 2005

Title: Resolution of Holocene Displacement at the C-746-U Landfill

Background:

The C-746-U landfill is the primary waste disposal resource for the Paducah Gaseous Diffusion Plant (PGDP) and for the waste-generating activities of the environmental remediation effort. The projected total capacity of the C-746-U Landfill is 1.5 million cubic yards. The projected fraction of waste eligible for disposal in the C-746-U Landfill generated during environmental remediation and Decontamination & Decommissioning (D&D) following plant shutdown is projected to be about 1.3 million cubic yards. Siting requirements for contained landfills do not permit waste to be disposed within 200 feet of a geologic fault demonstrating displacement within the Holocene era (10,000 – 12,000 years) (Kentucky Research Consortium for Energy and the Environment [KRCEE] presentation to the CAB, 8-19-04). Geologic faults are thought to be present in the vicinity of the C-746-U Landfill. If displacement within the Holocene era is determined, the future use of the C-746-U Landfill is potentially proscribed. This circumstance would create a significant waste management problem. Among the activities of the KRCEE is the investigation of the existence of Holocene era displacement in the vicinity of the C-746-U Landfill.

Recommendation:

The Citizens Advisory Board recognizes the importance of the C-746-U Landfill to management of wastes generated during environmental remediation and future D&D activities. Timely resolution of the issue concerning possible Holocene era displacement in the vicinity of the C-746-U Landfill is essential to an orderly process for waste management for current and future activities at the PGDP site. The Citizens Advisory Board recommends:

Resolution of the Holocene displacement issue should continue to be a high priority activity of the KRCEE. The Department of Energy should continue to encourage through its grant oversight a resolution of the issue as soon as possible.

Approved by Consensus 1/20/05