



Mound Long Term Stewardship Initiative

Ted Quale
BWXT of Ohio



Purpose

- The Mound Long Term Stewardship Initiative, an EM-50 D&D Focus Area funded project, will systematically explore and identify improved methods to validate the continued effectiveness of the institutional controls necessary to assure that the public and the environment are protected from long-lived hazardous and radiological wastes associated with prior operations at Mound.



Scope



- The Mound LTSI will integrate and demonstrate a variety of improved & innovative, commercially available technologies at the Mound facility.
- Cleanup of the hazardous and radioactive contaminants is being done under CERCLA.



Scope (cont.)

- After cleanup is complete, the site* will be transferred to the local community for purposes of economic redevelopment.

*excluding property required to support DOE's continuing NE mission



Primary Focus



- The primary focus of this project is to identify and demonstrate technologies for monitoring buildings and other above ground issues.
- Project scope may also include monitoring soil, water or other environmental media, when such information is critical to demonstrate success of the selected remedy(s)



Long Term Value



- It is expected that identified technologies will be available for use by both DOE and Non-DOE facilities to satisfy future Long Term Stewardship needs.



Measurable Performance



- Produce quantifiable cost and performance results.
- Select most efficient and cost effective technologies for deployment.
- Technologies accepted and deployed prior to site closure in 2006.



Improved/Innovative Technology Needs



- Data Management
- Monitoring the Movement of Soils
- Monitoring the Installation of Drinking Water Wells
- Ground Water Monitoring
- Monitoring for Adherence to “Industrial” Land Use



Data Management:



- Data management technology, including considerations of long term storage, accessibility, usefulness, ease of use and location. Information needs to be maintained and kept current as additional activities occur or new information is gathered.



Monitoring the Movement of Soil



- Monitoring of institutional controls/deed restrictions prohibiting the removal of soil from the site without regulatory approval.



Monitoring the Installation of Drinking Water Wells



- Monitoring of institutional controls/deed restrictions prohibiting the installation of bedrock wells or borings on the site without regulatory approval.



Ground Water Monitoring:



- Real Time monitoring of water where applicable and appropriate, including a) groundwater areas that may relate to the Sole Source Aquifer, b) seeps and their source of water, and c) bedrock water.



Process



- Identify Needs
- Kick-off Meeting (September)
- Identify existing innovative technologies to satisfy needs
 - Technology Team Searches
 - DOE Data Bases
 - University Searches



Process (Cont.)



- Identify potential vendors
 - TechCon
 - Vendor Workshop
 - Commerce Business Daily Announcement
- Select most promising technologies for demonstration



Process (Cont.)



- Demonstrate the selected technologies to determine their viability.
- Document the demonstration results.
- Issue Final Report.



Contacts

- Principal Investigator
Don Krause, BWXT
Phone: (937)865-4501
E-Mail:
kraudr@doe-md.gov
- Project Manager
Ted Quale, BWXT
Phone: (937)865-4256
E-Mail:
qualtj@doe-md.gov
- DOE-MEMP
Sue Smiley,
Phone: (937)865-3984
E-Mail:
sue.smiley@ohio.doe.gov
- Project Manager
Joyce Massie, BWXT
Phone: (937)865-3888
E-Mail:
massja@doe-md.gov



Questions and Answers