

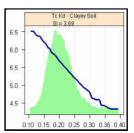
High-Level Waste Corporate Board Performance Assessment Subcommittee

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DOE-EM HLW Corporate Board Meeting



Background – Performance Assessment Process

Performance assessments are the fundamental risk assessment tool used by the DOE to evaluate and communicate the effectiveness and long-term impact of waste management and cleanup decisions. This includes demonstrations of compliance, NEPA analyses, and decisions about technologies and waste forms.





Background – Process Perception

EM-2 'Precepts' for Improved High-Level Waste Management (HLW Corporate Board Meeting – April 2008)

- Improved Performance Assessments (PA)
 - The PA process is not consistently applied amongst the major HLW sites
 - PA development always seems to be a 'research effort'
 - Quality assurance (QA) is inconsistent and sometimes problematic





HLW Corporate Board Action

Charter Performance Assessment Subcommittee

 Goal - to develop a guidance document for Performance Assessments. The guidance should address both methodology and the use of data to help promote consistency in the preparation and application of performance assessments across the DOE complex.

Objectives:

- Develop a body of knowledge relating to the preparation and application of performance assessments across the DOE complex.
- Draft a guidance document, based upon the agreed-upon body of knowledge (and any desired improvements), in a clear and easy to understand style;
- 3. Complete a draft guidance document one-year from the date this charter is approved.





EM-11 Proposed Action

Low-level Waste Federal Review Group (LFRG) has proposed a 'Performance Assessment and Risk-Based Modeling Consistency Initiative'

Problem Statement – '... credibility of these analyses is ...
weakened by inconsistencies across sites ... regarding
modeling approaches, input data, parameter assumptions, and
scenarios.

Proposal Objectives:

- Improve the Department's performance assessment and risk-based decision making capabilities by increasing the quality, credibility, consistency, and efficiency of the Department's performance assessments and risk-based modeling, and
- Maintain an enduring performance and risk assessment capability, resulting in greater defensibility of the Department's decisions over the long term.





Launching a Performance Assessment Community of Practice

- Joint sub-committee of HLW and LLW Corporate Boards to provide strategic guidance on Performance Assessment (PA) and Composite Analysis (CA) Consistency
 - Consistency across PAs/CAs and between PAs/CAs and other environmental assessments (e.g., RCRA, CERCLA, NEPA)
 - Support from DOE staff, LFRG, CRESP, National Labs, others
 - Review current PAs for consistency and best practices
 - Identify key issues/areas for improvement; develop workshops with all key stakeholders (Sites, NRC, States, EPA, Tribes, etc.) to evolve basis for approaches to identified issues
 - Identify best paths for implementing improvements
 - C-Tank Farm at ORP as pilot demonstration of PA improvements and test bed for PA maintenance improvements
- LFRG Establish joint EM-10 and EM-20 co-chairs
 - Serves as post-PA development review process (e.g., quality verification)
- Use Performance Assessment Assistance Team (PAAT) to provide foundation for upfront consistency and quality (Joint EM-10, EM-20)
 - SRNL lead in conjunction with other National Labs
- Site-specific Consistency Groups to provide consistency in assumptions across various environmental assessments at individual sites





Proposed HLW Board Corporate Board Action

Approve formation of Community of Practice

 EM-10 and EM-20 to provide candidates for cochairmanship of combined effort

☑ HLW Corporate Board (and LLW Corporate Board)
approve integrated Charter



