

EM Site-Specific Advisory Board Topics and Achievements

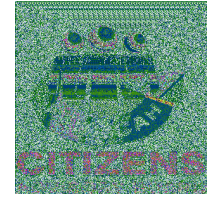
EM Site-Specific Advisory Board Chairs' Meeting
October 20, 2011



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Paducah

- **Fully support the DOE Asset Revitalization Initiative**

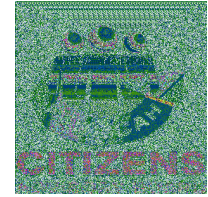
- Incorporate clean energy technologies at the Paducah site – solar, bio-fuels, clean coal, etc.
- Develop infrastructure assets at the site including electrical grid
- Promote public-private partnerships such as USEC for commercial opportunities at site
- Local communities and stakeholders are engaged and ready to support this process!



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Paducah

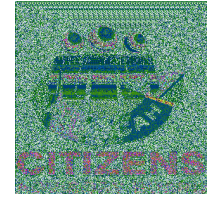
- **Continue to support the reuse of assets at the facility**
 - Re-enrichment of Uranium Tails at the site
 - Reduces waste for processing & disposition
 - Generates revenue for DOE
 - Extends jobs at USEC
 - Develop strategy to reuse contaminated nickel
 - Reduces waste for processing & disposition
 - Generates revenue for DOE
 - Develop asset recovery strategy for long-term D&D
 - Reduces waste for processing & disposition
 - Potentially a complex-wide strategy development



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Paducah

- **Integrate interdependent decisions for future site use**
 - CERCLA Cell evaluation in progress
 - Alternatives for future site use is on-going
 - Future Use study by UK (KRCEE) report recently released
 - Historic preservation activities are underway

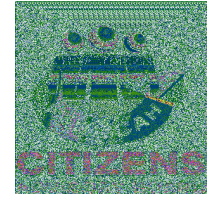
How do we build consensus to move forward ?



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Paducah

- **Accomplishment:** Completed successful transition to new CAB leadership and 7 new members.
- **Major Board Activity:**
 - Work plan in place for 2011/2012
 - Milestones established for 2012
 - Continue with focused subcommittees approach
 - Increased public engagement to support future site use decisions



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Savannah River Site

- **Receipt of additional research reactor spent nuclear fuel and continued long-term storage of existing inventories with no known, approved disposition path**
 - Processing of spent nuclear fuel (SNF) In H-Canyon Purex Process was once considered both viable and likely.
 - H-Canyon Purex Process is being placed in standby and is no longer considered to be a disposition pathway option.
 - In addition to the loss of disposition pathway this action no longer makes the highly enriched uranium from the SNF available to private industry for reuse.
 - This action goes counter to the EM stated goal of site footprint reduction and expedited cleanup of the site.



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Savannah River Site

• **Effective utilization of H-Canyon**

- Facilities to be placed in modified operations status:
 - H-Canyon flushed by February 2012
 - HB-Line modified April 30, 2011
- Disposition decisions not made for Plutonium (Pu) & Used Nuclear Fuel (UNF).
- H-Canyon should be performing at full operations for disposition of some limited nuclear materials, pending Environmental Impact Statement decisions.
- Differential Cost between Full Operations/Warm Standby likely relatively modest (significant cost savings?).
- H-Canyon is extremely effective: disposition of UNF, Pu, and other nuclear materials; blend-down of Highly Enriched Uranium.
- H-Canyon scale-down may lead to loss of unique capability.



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Savannah River Site

- **Prioritization of site activities in view of likely budget cuts**
 - Major emphasis and top priority should be H-Canyon and liquid waste/tank closure.
 - Other site remediation should be scaled back to permit continued operation of these two most significant risk-reduction activities.
 - Emphasis should be placed on stabilization of UNF in basins and plutonium while maintaining the capability to process “yet to be located/known” unstable nuclear materials.
 - Important to have clearly defined treatment and disposition path for all nuclear materials, hazardous, mixed waste, or low-level wastes presently on site or destined for the site.



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Savannah River Site

- **Lack of a federal repository for nuclear waste disposition and storage**
 - The communities surrounding SRS are beginning to believe that the site will be a de facto long-term waste storage site if a federal repository for nuclear waste does not become operational.
 - The State of South Carolina has been promised by DOE that the State will not be used for long-term storage of Pu or High Level Waste.
 - Credibility and costs are at issue. To study another waste federal repository to the same degree as Yucca Mountain would take decades to complete. Continuing to store waste at multiple sites around the country could be a safety/security concern.
 - Citizens have not been provided an adequate rationale for cancellation of the Yucca Mountain Federal Repository.



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Savannah River Site

- **Accomplishment:** Members participated in non-CAB meetings and conferences to increase our knowledge-base and to increase the public awareness of our activities.
 - Members participated and provided input to DNFSB at a public meeting on SRS activities including nuclear materials disposition and liquid waste processing.
 - Members participated and provided input to NRC at a public meeting for regulatory basis for spent nuclear fuel reprocessing facilities.
 - Vice Chair represented the CAB at SRS Enterprise Meeting.
- **Major Board Activity:** CAB expands our community outreach.
 - Chairman represented CAB at discussions and community meetings with visitors from UK Nuclear Decommissioning Authority to SRS.
 - A CAB member represented the CAB at an Environmental Justice meeting.



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Nevada



- Reviewing and commenting on the Nevada National Security Site's Site-Wide Environmental Impact Statement



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Nevada

- Provide comments on the Greater Than Class C Environmental Impact Statement



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Nevada



- **Accomplishment:** Provided eight recommendations to the Nevada Site Office in FY 2011
 - Six fully accepted and two partially accepted
- **Major Board Activity:** Welcomed five new NSSAB members on October 1
 - Conducted orientation on October 5 and site tour on October 19





Oak Ridge

- **Current Budget**
 - Risks are not being addressed because of insufficient funding



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Oak Ridge

- Long-Term Budget



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Oak Ridge

- **Accomplishment:** ORSSAB issued its 200th Recommendation
- **Major Board Activity:** Establishment of EM Budget & Prioritization Committee to work with DOE in developing budget scenarios



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Idaho

- **Provide sufficient funding to achieve or meet the deadlines associated with DOE-ID's accelerated cleanup plan**
 - The INL has been a premier site for accomplishing cleanup.
 - The CAB supports accelerated cleanup to maintain the momentum.
 - Additional EM funding is required in the near-term to achieve acceleration.



Idaho



INL Site Environmental Management
CITIZENS ADVISORY BOARD

- The urgency to address the paths forward for spent nuclear fuel, high-level waste and transuranic waste

Spent Nuclear Fuel and Waste Under Responsibility of DOE Idaho

Material	Idaho Settlement Agreement Commitment	Amount
Spent Nuclear Fuel (SNF)*	Remove SNF(except navy fuel) by January 1, 2035	285 Metric Tons Heavy Metal
High-Level Waste Calcine	<ul style="list-style-type: none"> • Submit RCRA Permit by December 1, 2012 • Complete treatment by December 31, 2035 	4,400 cubic meters or between 3,500 and 5,000 canisters of treated calcine waste product
Sodium-Bearing Waste	Complete treatment by December 31, 2012	900,000 gallons or between 650 and 700 canisters of treated sodium-bearing waste
Transuranic Waste	Complete disposition by a target date of December 31, 2015, and in no event later than December 31, 2018.	65,000 cubic meters

**The amount of SNF in Idaho slowly increases through receipt of SNF from foreign and domestic research reactors and the generation of SNF in the Advanced Test Reactor and Neutron Radiography Reactor.*



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Idaho

- **Ensure workforce reductions do not compromise project milestones, performance, or safety**
 - Workforce safety and stability is a priority for the INL Site EM CAB.
 - Impacts to the cleanup project workforce should be minimized. Additional accelerated cleanup is a way to minimize immediate impacts.
 - The contractor is recognized for its efforts to help the employees affected by a reduction in force, such as working with area contractors and other potential employers for placement in nuclear-related work.





Idaho

- **Accomplishment:**

- Letters/Recommendations on DOE Budget, GTCC Draft Environmental Impact Statement, and welcoming Dave Huizinga, Acting EM-1.
- Support DOE-Idaho in accomplishing its Journey to Excellence.
- Improved communications through outreach efforts.

- **Major Board Activity:**

- Consistent and sustained involvement in review of cleanup activities for impacts to the environment and protection of the Snake River Plain Aquifer.
- INL Site tour including opportunity to observe active decontamination and decommissioning taking place at Experimental Breeder Reactor – II.





Portsmouth

- **Waste Disposition**
 - On-site disposal cell size and location
 - Recycling
 - Speculative Accumulation
 - Regulatory Issues
 - Waste acceptance criteria
 - Compliance with other laws
 - Long term monitoring & Maintenance Requirements



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Portsmouth

- **Budgetary shortfalls and timeline for completion of D&D**
 - Programmatic planning for D&D
 - Development and implementation of Future Use plan
 - Transition to “non-EM” use of the site



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Portsmouth

- Accomplishment: Recommendation 11-06: SSAB recommends siting assessment of future OSDC(s) Site D and Site C for their suitability for a potential CERCLA cell.



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Portsmouth

- **Major Board Activity:** The Board participated in the second DOE Science Alliance. DOE sponsors an educational outreach event. This event is geared to 11th graders in the four surrounding counties and has drawn a scheduled attendance of more than 1200 students.



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Hanford

- **RCRA Site-Wide Permit**

- Washington State 10-year permit required for site operations
- Huge, complicated document to review
 - Draft delayed until December
 - Public comment period 60-90 days (HAB supports extension of comment period due to document size, importance and complexity)
 - Support public workshops
 - Agency priority



Hanford

- **Record of Decision Issued for burial grounds PW 1, 3, 6, and CW 5**
 - HAB and public comments supported more characterization and removal of Pu for disposal offsite (supports HAB groundwater protection value)



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Hanford

- **Solid Waste Burial Grounds**

- 450,000 cubic meters radioactive solid waste in unlined trenches
- Draft Tank Closure & Waste Management Environmental Impact Statement identified unacceptable impacts to groundwater
- DOE preparing 200-SWBG RCRA Facility Investigation/ Corrective Measures, Study and Remedial Investigation/ Feasibility Study (RI/FS) Work Plan that will define work leading to actions to remediate burial grounds in the 200E & 200W Central Plateau
- HAB recommended more characterization data s needed to support remedy selections
- More pre-1970 buried transuranic (TRU) element inventory than post-1970 TRU planned for retrieval (Note: HAB believes TRU should be considered TRU, regardless of when it was buried) HAB value-groundwater protection



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Hanford

- **Major Board Activity:** The Public Involvement subcommittee has been working with DOE, EPA and Washington State Department of Ecology providing public values for consideration in the update of the Community Relations Plan (Public Involvement Plan) in the Tri-Party Agreement. This plan is used by the agencies for public involvement activities and we encouraged them to make it functional/relevant for the public as well.





Northern New Mexico

- DOE provide funding in FY 2012 and beyond for Los Alamos National Laboratory to meet completion of the New Mexico Order on Consent



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Northern New Mexico

- **DOE should expedite high priority cleanup work**
 - Complete remediation of TA-21
 - Remove TRU waste from MDA-G to support complex wide goal of 90% removal of TRU waste by 2015



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Northern New Mexico

- DOE should focus on continued development of an integrated site-wide Surface Water and Groundwater Monitoring Program, to optimize execution of the Consent Order



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Northern New Mexico

- **Accomplishment:** the NNMCAB hosted and sponsored a public forum on “Surface and Groundwater at LANL” on June 22, 2011. The forum included a poster session, presentations and a panel discussion. Approximately 65 members of the public attended.
- **Major Board Activity:** The NNMCAB has approved an initiative to increase board membership to the authorized 27 members; focused presentations; Speaker’s Bureau presentations to civic groups, schools and churches.

