



# Hanford

EM Site-Specific Advisory Board Chairs Meeting  
Las Vegas, NV March 28 – 30, 2007



- Groundwater
  - Continuing to develop a Decision Flow Chart.
  - Help ensure integration across Hanford (field offices and contractors) – follow through to new contracts
- Pre-1970 TRU
  - What is path forward: Retrieve, treat, dispose?
- Waste Treatment Plant
  - Startup schedule moved from 2011 to 2019
  - Underground tank storage system integrity over time.
  - Funding





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### Idaho National Laboratory Site EM Citizens Advisory Board

- Groundwater
  - *Because of the Snake River aquifer, any contamination at the site is of grave concern. There are literally hundreds of farmers and towns down stream on this aquifer that use it. Fortunately, none have been exposed to any contamination to date; however, we need to be continually alert and concerned so that the situation stays this way.*
- Reprocessing
  - *There is concern that if reprocessing is not resumed soon Yucca Mountain will not be able to accommodate the waste slated to be disposed there. Further delays in opening Yucca Mountain will affect the Idaho Settlement Agreement to get waste out of Idaho by 2035.*
- Buried Waste
  - *Should it be remediated and disposed elsewhere or capped in place?*





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### Background – Underground Test Area (UGTA) Project

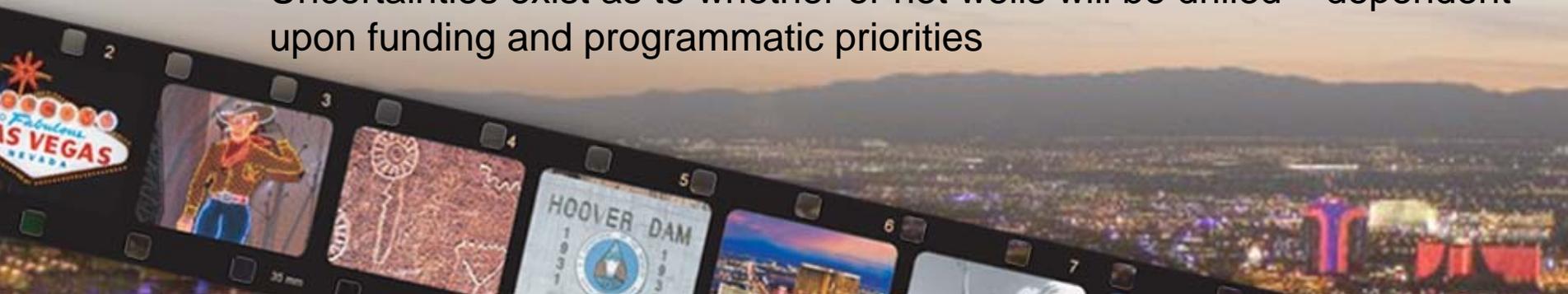
- 828 historical underground nuclear tests released ~132 million curies of radioactivity into subsurface regions – resulting in some on-site groundwater contamination (no offsite groundwater contamination has been detected)
- Independent peer review of groundwater project conducted at request of the CAB

### CAB Issued Formal Recommendation

- Fund/install system of 3 wells strategically located down gradient of region where major testing occurred; upgradient of rural Nevada residents

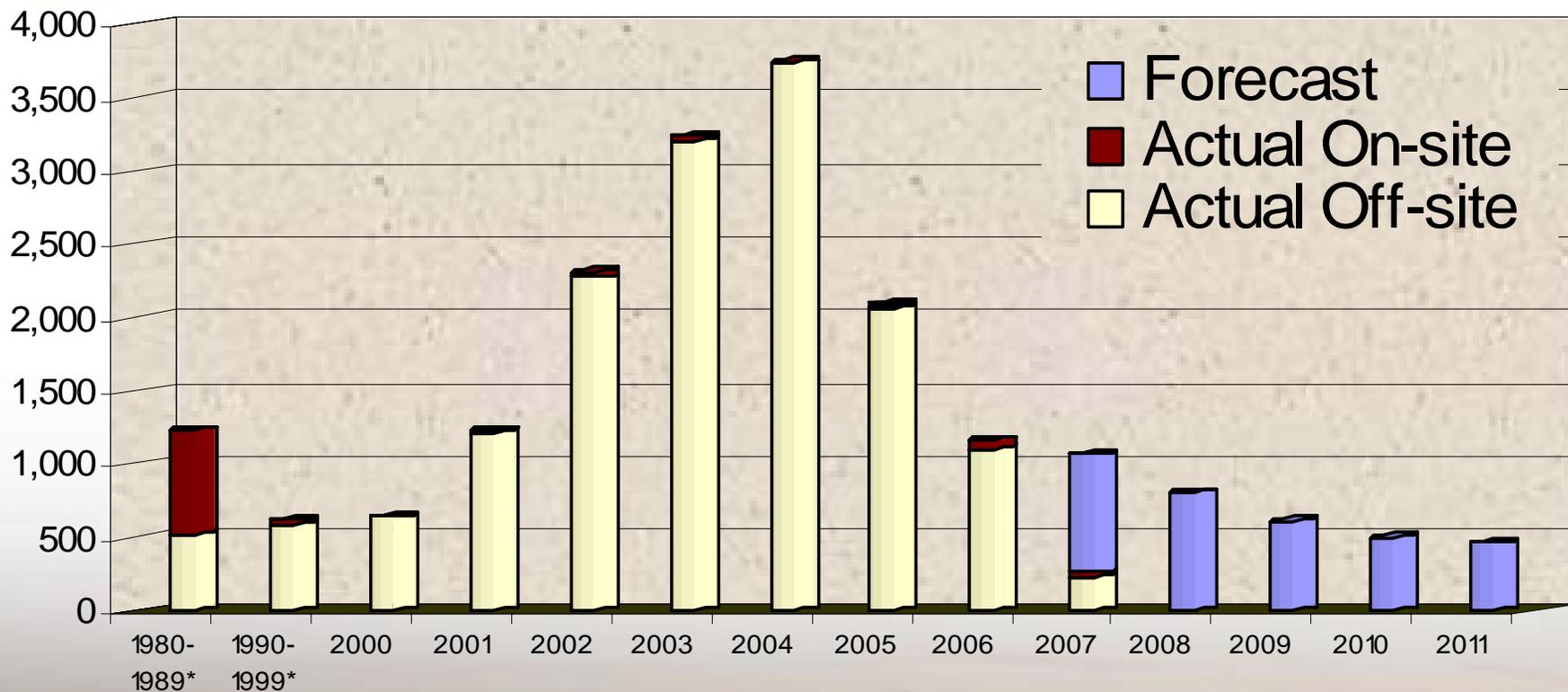
### Status

- CAB recommended 3 additional wells; working with technical advisor on DOE feedback to recommendations
- Uncertainties exist as to whether or not wells will be drilled – dependent upon funding and programmatic priorities





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FY 2004 (total) – 3,743,572 ft<sup>3</sup>  
 FY 2005 (total) – 2,091,771 ft<sup>3</sup>  
 FY 2006 (total) – 1,166,433 ft<sup>3</sup>  
 FY 2007 (total as of 03/01/2007) – 264,394 ft<sup>3</sup>

*\*Indicates average per year for that decade*





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Maintain adequate EM funding to ensure that:

- scheduled waste disposition activities are maintained while complying with existing regulatory agreements regarding waste standards; and
- the Underground Test Area Project can drill wells to address stakeholder groundwater concerns.





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### Northern New Mexico Citizens' Advisory Board Top Three Issues

- ***Top Issue 1 - EM Budget and New Baseline Convergence***
  - *Support Consent Order Obligations*
  - *Accelerate Cleanup to Reduce Future Costs*
  - *Confirm EM & NNSA Commitment to Environmental Protection & Cleanup*
- ***Top Issue 2 - Rad Waste Area G: Closure of Existing Pits & Expansion of New Landfills in FY'07***
  - *Citizen Participation & Confidence in Risk-Informed Closure Plans for Area G*
  - *Required: State of Practice Landfill Design, Construction and Operation of Expansion*
  - *Decisions Made in F/Y 07, Implemented over 10 years & Lasting 1,000s+ years*
  - *Review & Implement New DOE policies on All Types Rad Waste Disposition - Nationwide*
- ***Top Issue 3 - Groundwater Monitoring and Protection at LANL***
  - *Install Reliable GW Monitoring System at LANL to Detect Trace Constituents*
  - *Investigate Contamination Migration from Facilities: Rate & Extent*
  - *Install Reliable Long-term Remedies for Legacy Wastes to Protect GW in Future*





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## Issue 1

### Stewardship

- Monitor development of the reservation LTS Implementation Plan/Directive
- Continue Public Education Efforts
- Press for a DOE-Headquarters liaison for non-closure sites





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## Issue 2

### Waste Management

- For any new projects, consideration should be given on the front end to waste management issues to minimize potential for future contamination of the environment





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### Issue 3

#### Groundwater/Surface water monitoring

- Ensure that groundwater/surface water monitoring of completed projects (to demonstrate effectiveness of the solutions) and of watershed areas are continued to form basis of development of the long-term RODs for all the remaining contaminated areas
- Keep stewardship high on the screen and don't forget the groundwater RODs





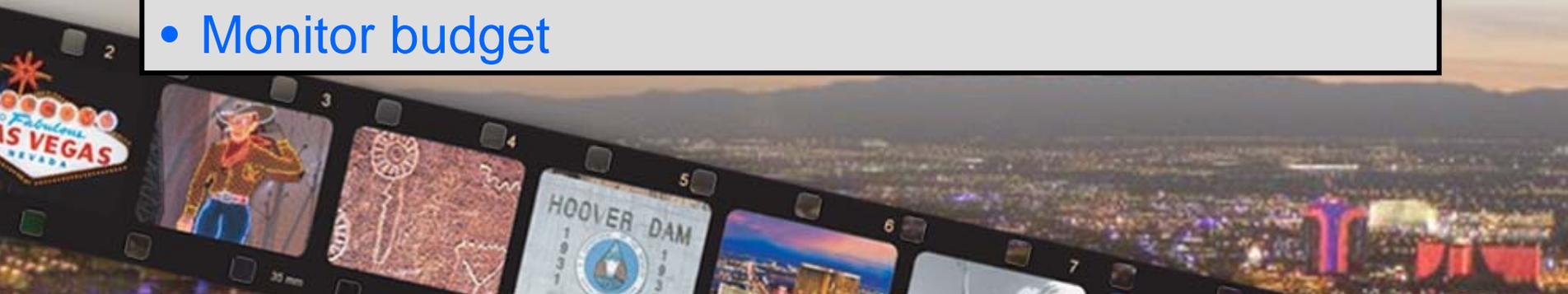
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## Issue 4

### Completeness of Reservation Remediation

- Follow process to ensure completeness  
“Leave No Building Behind”
- Address projects not included in Accelerated Cleanup scope
- Address other projects not included in Oak Ridge EM scope (~200 buildings at Y-12 and Oak Ridge National Laboratory)
- Monitor budget





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## Top Three Issues

### Paducah Gaseous Diffusion Plant Citizens Advisory Board

- 1) CAB Relationship with DOE
  - Progress has been made
    - Communication with DOE
    - DOE Support
  - Areas for improvement
    - Align CAB focus with DOE priorities
    - Member recruitment and training
    - Incorporate comments early in decision making process





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## Top Three Issues

### Paducah Gaseous Diffusion Plant Citizens Advisory Board

- 2) Soil/Rubble Piles
  - Approval of Sampling and Analysis Plan
  - Continued Use of West Kentucky Wildlife Management Area
  - Correlation of Real-Time Sampling with Laboratory Analysis
  - Remediation Decisions
  - Consolidate all previous investigations into one reference document
- 3) Design/Implementation of the C-400 Project
  - Reduction or elimination of the DNAPL associated with C-400
  - Remove the source of TCE contamination from the groundwater plume
  - Plume remediation at an accelerated rate
  - Change in plumes
  - TCE degradation factors





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- Savannah River Site Top Three Issues
- High Level Waste system
- Plutonium disposition decisions
- Storage, treatment and disposal of wastes from new/other missions

