



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

2007 TOP 3 ISSUES – Savannah River Site

1) Tank Closure

High Level Liquid Waste
Salt Waste Processing Facility
Tank Farm Operations
DWPF / Saltstone Operations

2) Pu Disposition

MOX

“Non-MOX-able”



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

2007 TOP 3 ISSUES – Savannah River Site, continued

3) P-Reactor End State Options

Currently engaged in Performance Assessment Modeling and In-Situ Alternatives Study

Both are ongoing to determine the options for this robust, hardened facility and the feasibility/risk for each option

The defining central issue is whether to demolish the entire facility or some portion of the facility

Decision to decommission P-Reactor under CERCLA remedial actions ensures greater participation from regulators and stakeholders

Recognize the process used to decommission P-Reactor may be transferable to other sites



EM Environmental Management

safety



performance



cleanup



closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – PGDP Citizens Advisory Board

Nickel Disposition

- DOE should proceed with a solicitation for disposition of the nickel ingots at the Paducah Gaseous Diffusion Plant (PGDP).
- The solicitation for nickel ingots at the PGDP should be separate from the solicitation for Oak Ridge nickel. Potential bidders should not be limited or prevented from locating operations in the Paducah community. Maximum benefit to the community and acceleration of remediation at the site should be encouraged.
- DOE should issue a separate solicitation for disposition of the aluminum ingots at the PGDP if economically viable.



EM Environmental Management

safety



performance



cleanup



closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – PGDP Citizens Advisory Board

C-400 Area Groundwater Remediation

- Remediation of primary groundwater contamination source is scheduled to begin in November 2008.
- Effectiveness and overall impact of Electrical Resistance Heating to reduce TCE concentrations in the groundwater plume will be determined.



EM Environmental Management

safety ❖ *performance* ❖ *cleanup* ❖ *closure*



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – PGDP Citizens Advisory Board

TCE Microbial Degradation

- Determine if aerobic or anaerobic biodegradation is occurring in the groundwater.
- Study may set precedent for other facilities with contaminated groundwater.



EM Environmental Management

safety ❖ *performance* ❖ *cleanup* ❖ *closure*



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP ISSUES – Oak Ridge

- 1) Completion of East Tennessee Technology Park and Balance of Reservation cleanup***
- 2) Initiation of the Integrated Facility Disposition Project***
- 3) Stewardship – Long-term Stewardship Needs at Ongoing Mission Sites***



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES - Northern New Mexico Citizens' Advisory Board (NNMCAB)

Top Issue 1 - EM Funding and Consent Order Obligations

- The 50% Shortfall in EM funding to meet Consent Order Obligations Projected over Several Years.
- The need for DOE, LANL and NMED to meet Consent Order Objectives using a Transparent Risk-Informed Decision Process to Evaluate and Select Optimal Life-Cycle Remedies.
- Needed: Use Validated Baseline to Fully Support EM Funding to Meet 2015 Closure Goal.



EM Environmental Management

safety ❖ *performance* ❖ *cleanup* ❖ *closure*



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES - Northern New Mexico Citizens' Advisory Board (NNMCAB)

Top Issue 2 - Closure of Material Disposal Area G and Potential Expansion of Rad Waste Facility in Area G

- Planned: Public Participation Program on Closure Alternatives for MDA-G on April 16, 2008.
- Needed: Explanation of Closure Alternatives for MDA-G Using Risk-Informed Decision Process.
- Needed: Integration of Long-Term-Stewardship in Decisions for all LANL Remedies.
- Needed: Public Participation on any Future Expansion of Rad Waste Facility at Area G.



EM Environmental Management

safety ❖ *performance* ❖ *cleanup* ❖ *closure*



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES - Northern New Mexico Citizens' Advisory Board (NNMCAB)

Top Issue 3 - Groundwater Monitoring and Protection at LANL

- Needed: Many New Groundwater Monitoring Wells Across LANL Facility to Produce Reliable Monitoring Network.
- Need to Qualify Data from Non-Representative Samples in Database.
- Need to Implement the 17 Recommendations from National Academies of Sciences Committee Report.
- Need to Better Understand the Rate and Extent of Contaminant Migration from LANL Facilities.



EM Environmental Management

safety ❖ *performance* ❖ *cleanup* ❖ *closure*



EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

Issue: NTS Groundwater Contamination

Current Status

- ~132 million curies of radioactivity released into the Nevada Test Site (NTS) subsurface regions has resulted in on-site groundwater contamination – of which 60% of the total radioactivity inventory is found within Pahute Mesa
- No off-site contamination has yet been detected
- The DOE/NSO continues to work with the CAB regarding strategic placement of additional wells located down gradient of region where major testing occurred – and up gradient of ranchers and residents in Oasis Valley, Beatty, and Amargosa, NV



EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

Ongoing Issues

- Groundwater modeling is based on current risks
 - Risks are changing due to tremendous population growth and construction throughout Southern Nevada
 - Adjacent seismic zones further complicate modeling efforts; contributes to uncertainties
- Stakeholder Concerns
 - The DOE strategy allows too much time for characterization -- answers on contaminant locations and potential for migration are needed now



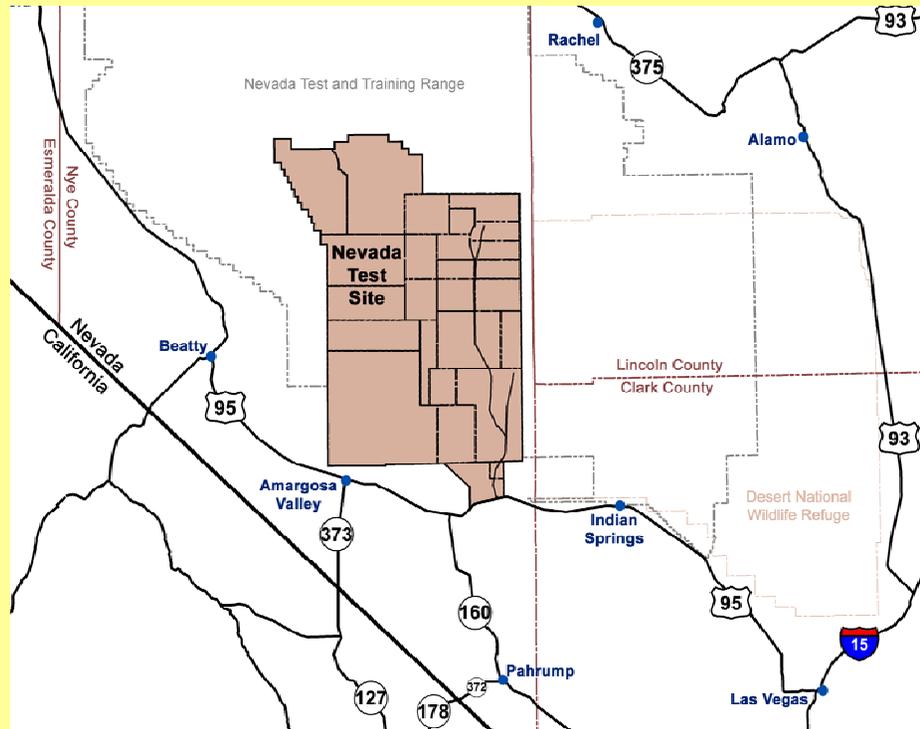
EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

Ongoing Issues -continued

- Stakeholder Concerns (continued)
 - The only source of water for rural communities in the desert surrounding the NTS is groundwater





EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

Ongoing Issues – continued

- State Regulator Concerns
 - As water is continually drawn down, the potential for contaminant migration increases, and may move in directions that are not predicted with current models
 - Bourgeoning growth throughout Southern Nevada demands that DOE/NSO operations be continually vigilant to address potential off-site impacts
- EM SSAB Chairs Meeting Discussion
 - Comments made by Assistant Secretary Rispoli at the March 2007 EM SSAB Chairs meeting indicated that his groundwater funding priorities are focused on other sites throughout the DOE complex



EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

CAB Bottom Line

- A proactive approach should be taken to ensure that focus remains on determining the extent of NTS groundwater contamination and its potential for offsite movement
- Adequate funding must be provided for an accelerated strategy to emplace a series of wells up gradient of nearby, expanding communities
 - Collect data; support groundwater modeling efforts; eventually used for monitoring and “early warning”
 - Identify current contaminant boundaries
 - Predict the potential for contaminant migration
 - Understand changing risks and potential effects
 - Address stakeholder concerns
- Radioactive groundwater contamination at the NTS is not a low-priority problem to the residents of Southern Nevada

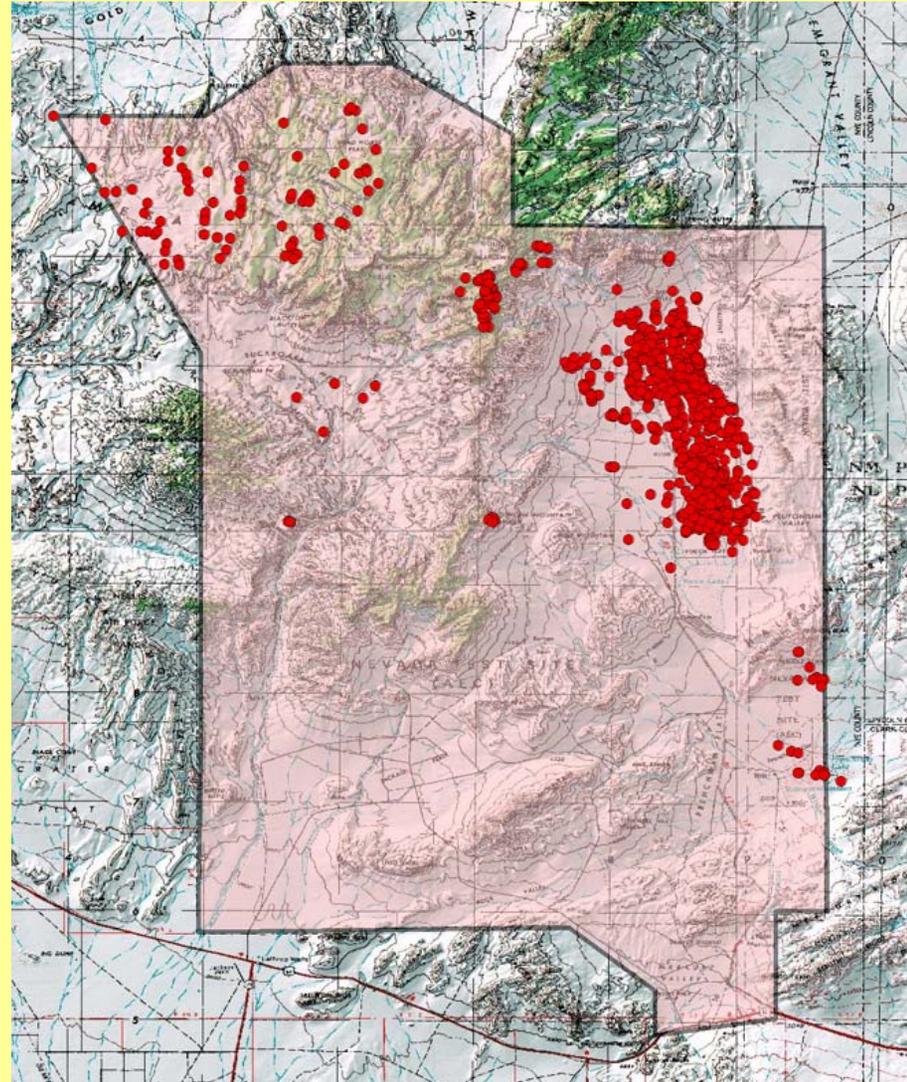


EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

*Map of
nuclear tests
that took place
at the
Nevada Test Site*



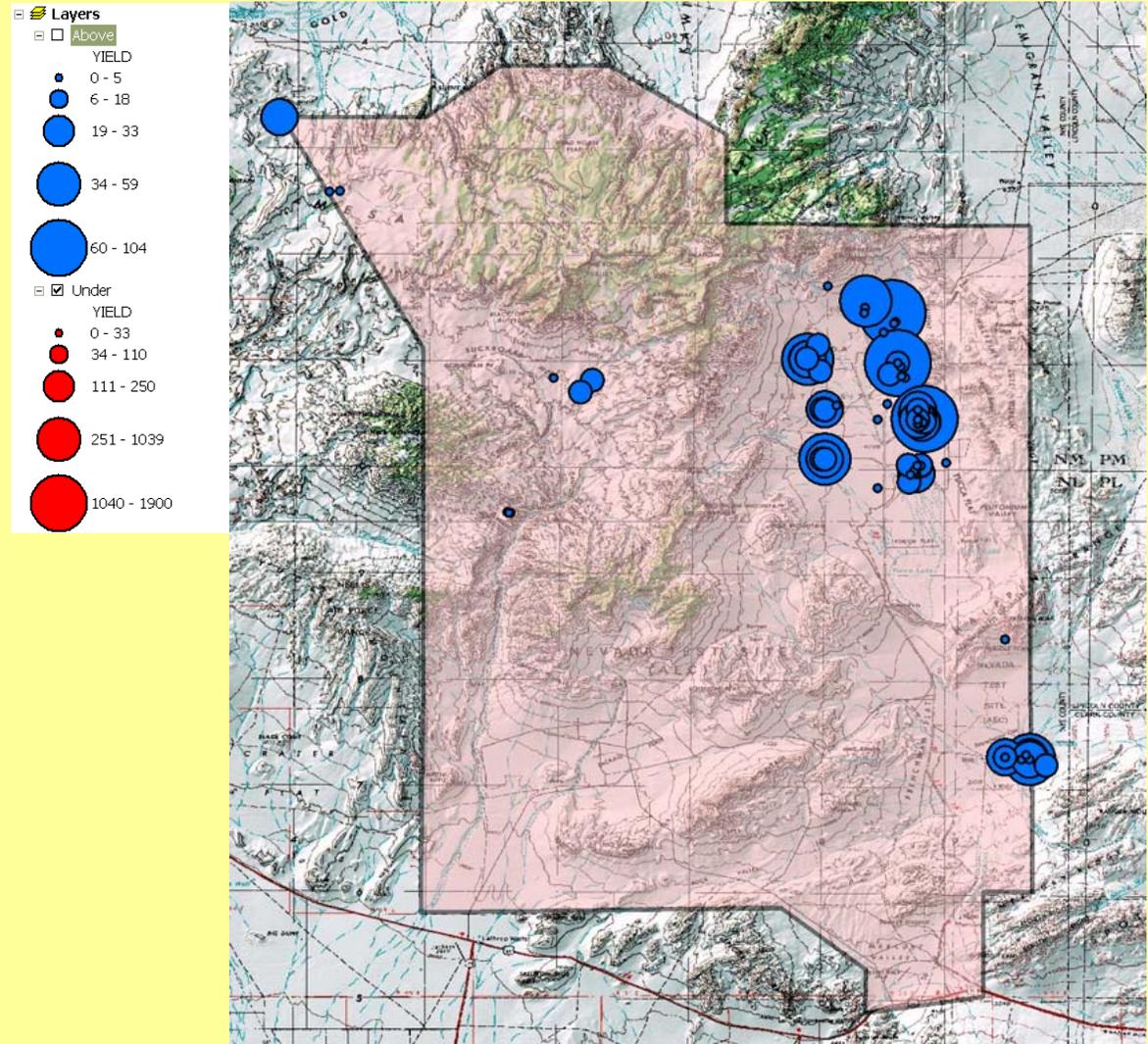


EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

*Map of
above-ground
shallow
subsurface
tests at
Nevada Test Site*



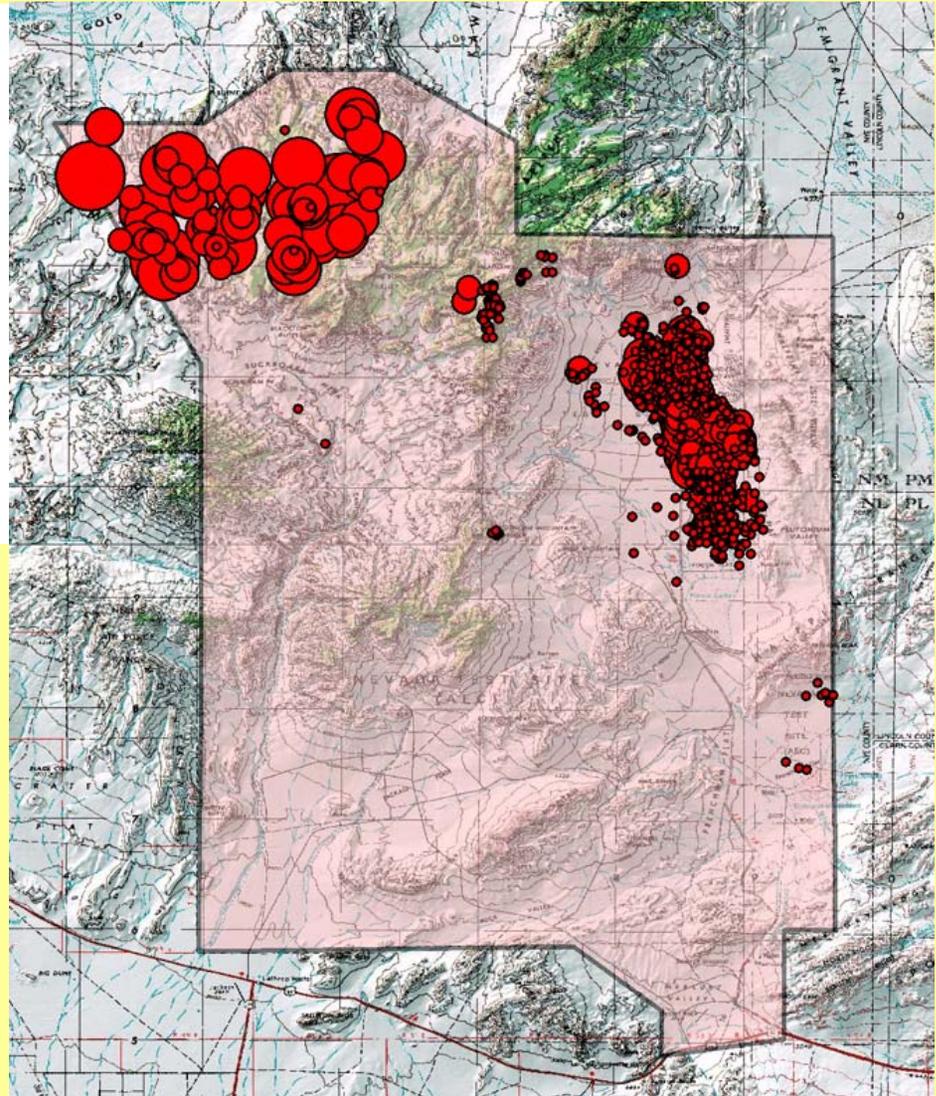
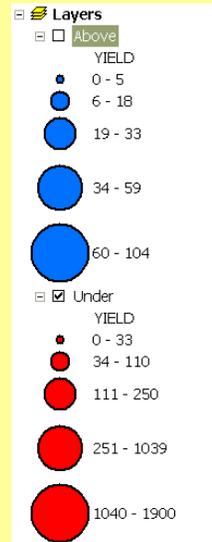


EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

*Map of
all
underground
tests at
Nevada Test Site*



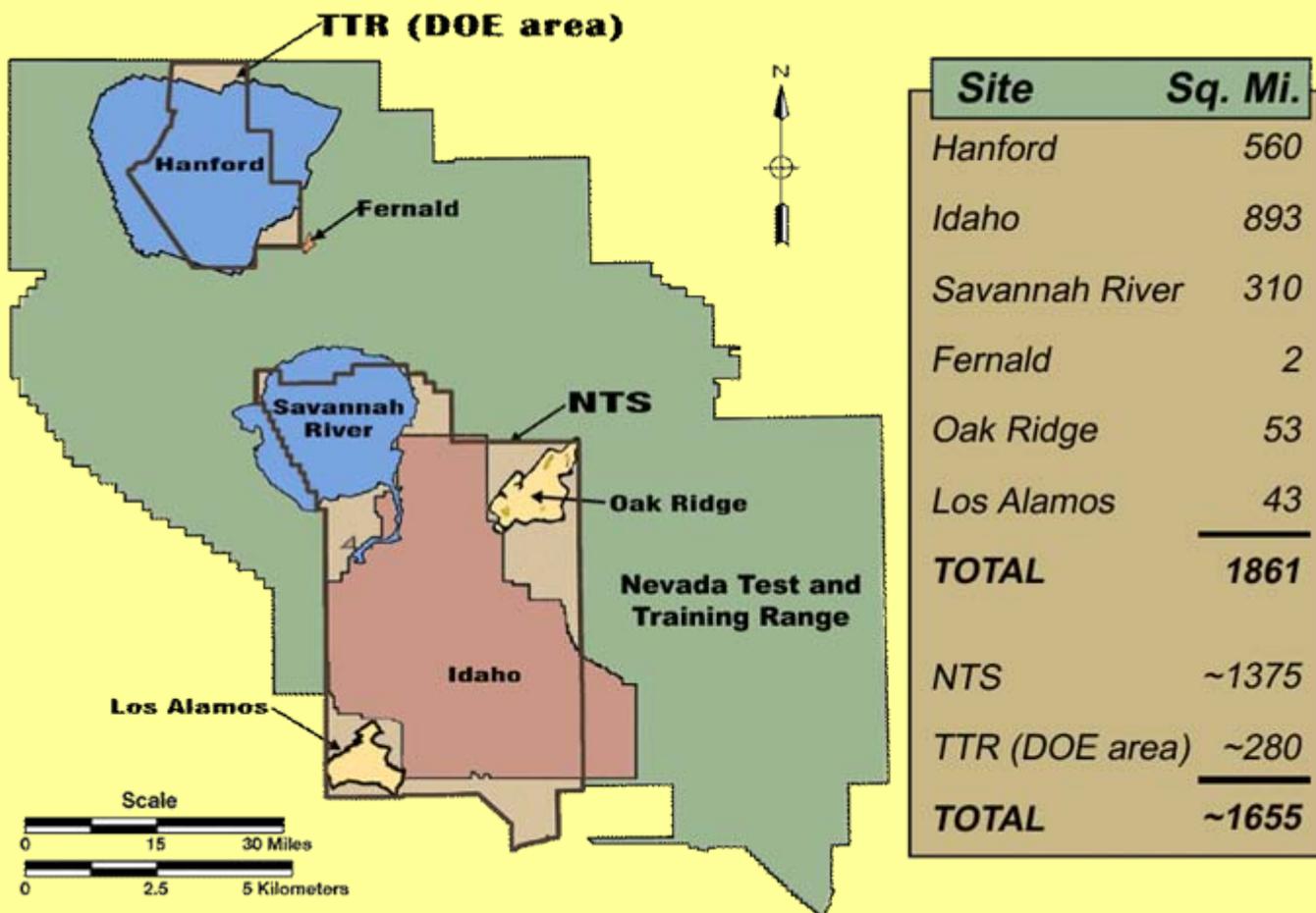


EM SITE SPECIFIC ADVISORY BOARD CHAIRS MEETING

Paducah, KY – September 26-27, 2007

Nevada Test Site

U.S. Department of Energy Site Comparisons





EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – Idaho National Laboratory Site

1) *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.



EM Environmental Management

safety



performance



cleanup



closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – Idaho National Laboratory Site

2) *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.

3) *Buried Waste*

Should it be remediated and disposed elsewhere or capped in place?



EM Environmental Management

safety



performance



cleanup



closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – Hanford

Waste Treatment Plant

- Startup schedule moved from 2011 to 2019 without regulator and stakeholder involvement
- Underground tank storage system integrity over time
- Recent leak during waste transfer from single to double shell tank
- Alternative LLW path forward



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – Hanford

Pre-1970 TRU (CH and RH)

- What is the path forward?
 - Characterize, retrieve, treat, dispose?
 - How it is considered in Risk Assessments, End States, potential to affect groundwater if left in place?
 - Will WIPP have room for Hanford's RH?



EM Environmental Management

safety



performance



cleanup



closure



EM SSAB
Chairs Meeting
Paducah, KY • September 26-27
www.pgdpcab.org

TOP 3 ISSUES – Hanford

Groundwater/Central Plateau Cleanup

- Consideration of stakeholder values identified in recently issued Decision Flow Chart.
- Integration across Hanford (field offices and contractors) – follow through to new contracts



EM Environmental Management

safety ❖ *performance* ❖ *cleanup* ❖ *closure*