



U.S. DEPARTMENT OF
ENERGY

DOE Accomplishments and Challenges

Frank Marcinowski

U.S. Department of Energy Headquarters

November 15, 2010



EM ***Environmental Management***

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov



U.S. DEPARTMENT OF
ENERGY

Overview of DOE Actions

- Work across DOE sites to maintain consistency in process – even across different regulations
 - Idaho and Savannah River for NDAA Section 3116
 - Hanford and West Valley for DOE Order 435.1
- Share lessons learned among DOE sites
- Oversight for requirements performed under DOE Order 435.1, DOE's self-regulatory authority under the Atomic Energy Act



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov



U.S. DEPARTMENT OF
ENERGY

HQ review of documents

- Reviews technical documents and legal reviews of policy documents to ensure consistency
- Staff raises issues to management, as needed
- Reviews and obtains management approval for other documents required: NEPA, DOE O 435.1 Tier I Closure Plan, etc
- Management briefs Secretary on Final Waste Determination



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov



U.S. DEPARTMENT OF
ENERGY

Idaho Tank Farm Facility

- Idaho TFF has 15 tanks: 4-30,000 gal, 11-300,000gal
- PA existed for facility prior to start of Section 3116, no scoping, updated to analyze new issues
- Draft WD issued 9/2005
- NRC issued RAls, issued TER 10/2006
- DOE issued final WD 11/2006, 4 small and 7 large tanks grouted within one year



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov



U.S. DEPARTMENT OF
ENERGY

Savannah River Site

- F Tank Farm and H Tank Farm have 51 tanks (2 already closed): 4 different designs and between 750,000 gal to 1.3 Million gal
 - PAs for both initiated for Waste Determination process,
 - FTF - 2nd draft PA submitted for public comment (closes 1/7/11)
 - HTF - 1st draft to be submitted for public comment March 2011
- Saltstone WD signed January 2006
 - Saltstone disposal ongoing for low activity portion of tank liquids wastes
 - PA revision underway as part of PA maintenance and also due to changes in design of disposal vaults



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov



U.S. DEPARTMENT OF
ENERGY

Lessons Learned from Idaho and SRS

- Scoping
 - DOE policy under Idaho was to limit public involvement because it hadn't been done in a technical environment
 - DOE policy shift by SRS, FTF only included regulators and NRC earlier on, now includes public at earliest stages
 - Moved concept to non-NDAA Section 3116 tank closures. Hanford includes public from the first meeting.
- Improvement of quality of reference documents
- Modeling techniques



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov



U.S. DEPARTMENT OF
ENERGY

Challenges

- Commitments to progress
- Communication
- Culture
- Institutional Knowledge
- Operations and Maintenance



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov