



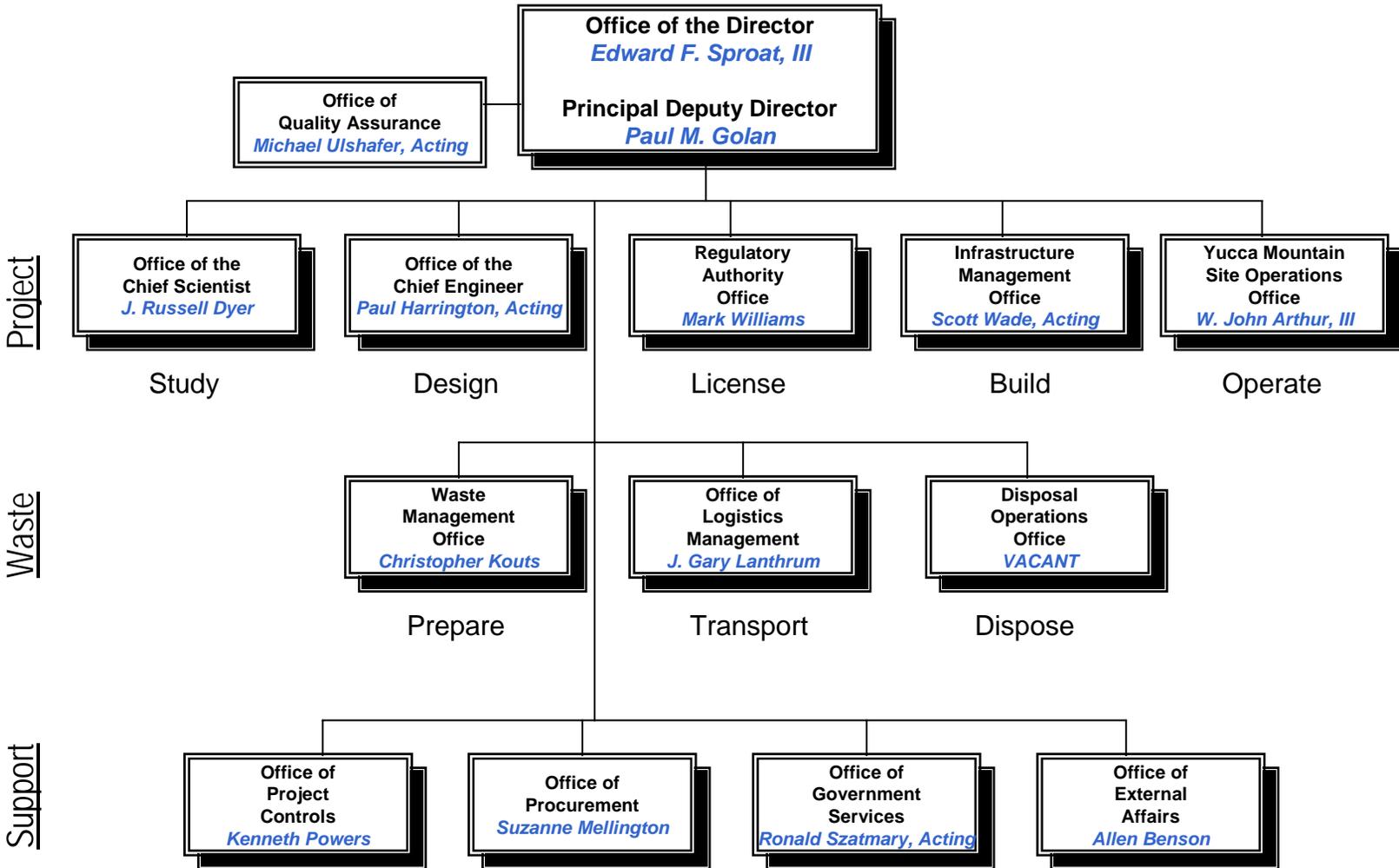
OCRWM Program Update

Presented by Steve Gomberg
Waste Management Office
July 11, 2006





- The RW reorganization became effective on May 8, 2006





- **RW presented revised program approach to ESAAB on July 6, 2006**
 - Addresses challenges with handling commercial SNF in dry transfer cells
 - Reduces complexity of preclosure safety analyses resulting from handling bare SNF
- **New approach**
 - Significantly impacts design of surface facilities with minor changes to subsurface facilities and waste packages
 - Most commercial SNF (~90 percent) to be received in transport-aging-disposal canisters
 - DOE SNF and HLW continue to be handled as disposable canisters
- **Overview of planned repository surface facilities**
 - Initial Operating Capability scope includes facilities for initiating receipt of all waste forms
 - Initial Handling Facility: Limited to HLW and naval SNF
 - Canister Receipt and Closure Facility: Receives all canister types (except naval SNF canisters) for disposal or aging
 - Wet Handling Facility: Receives commercial SNF accepted in uncanistered assemblies or non-disposable canisters
 - Supporting facilities: Infrastructure to support IOC, including limited aging and limited emplacement





■ Overview of Planned Repository Surface Facilities

- Full Operating Capability includes facilities for handling 3,000 MTHM of commercial SNF annually, in addition to DOE SNF and HLW
 - Receipt Facility: Receives TADs and transfers to aging facility
 - Two additional CRCFs: All three facilities would be identical
 - Expansion of supporting facilities, including completion of emplacement drifts and aging capacity

■ ESAAB approved revised CD-1 (partial)

- Approval of canister concept
- Approval to proceed with preliminary design
- Full approval conditioned upon completing the acquisition strategy for Yucca Mountain



- **RW is developing a license application based on the new canister-based approach to waste acceptance**
 - LA will be based on safety analyses for all facilities. No phased licensing planned.
 - Surface facility design and associated preclosure safety analyses will involve the most significant changes
 - New and updated infiltration data and modeling will be reflected
 - Postclosure performance will be based on the draft EPA standard
 - 15 mrem/yr at 10,000 years
 - 350 mrem/yr at 1,000,000 years
 - Numerous other enhancements and realistic analyses to address recommendations of the Independent Validation Review Team

- **Proposed LA schedule presented to ESAAB indicating submittal to NRC during FY 2008**
 - BSC submitted a draft LA Management Plan to DOE in June 2006 identifying key interim milestones and critical path
 - RW-1 is conducting a Management/Design review in late July
 - Schedule refinement activities are ongoing, so schedule will likely change
 - LA schedule will be formally announced at upcoming Congressional



- **In January, RW designated Sandia National Laboratory as the Program's Lead Laboratory**
 - A lead laboratory concept is consistent with the successful WIPP model
 - SNL was selected because of their ability to organize and coordinate the scientific activities conducted for WIPP

- **RW is currently transitioning work from BSC to Sandia**
 - Involves over \$100 million annually in scope of work
 - SNL is now developing their Quality Assurance program
 - RW will conduct a readiness review in the August/September timeframe
 - Beginning in FY 2007, SNL will be responsible for conducting all post-closure activities, including lead responsibility for development of the post-closure sections of the LA

- **Expectations**
 - The relationship with the other national laboratories remains much the same as it did when BSC directed post-closure work
 - The inputs necessary from EM for development of the TSPA and our post-closure safety case will now be coordinated through SNL

- **Points-of-Contact**
 - For RW, Russ Dyer or Claudia Newbury
 - For SNL, Andrew Orrell or Peter Swift





- **During Autumn 2004, RW and EM began effort to revise the Memorandum of Agreement for Acceptance of SNF and HLW**
 - Revision 2 provided numerous, needed updates and addressed almost 200 comments from EM, SNF and HLW sites, and the NSNFP
 - In February 2005, RW-1 signed revision 2 of the EM/RW MOA
 - In April 2005, EM indicated that it would not sign the MOA

- **In July 2006, EM-10 indicated agreement to proceed with restarting MOA effort to assist in closure of RW Correction Action Report**
 - RW has reviewed the MOA and made limited changes to ensure the currency of the MOA, primarily involving Quality Assurance roles and responsibilities
 - RW plans to initiate a Document Review of the new revision for signature as soon as possible
 - Once completed, Revision 2 will allow RW to close a long-standing corrective action report, document clear roles and responsibilities between organizations, and provide added confidence to the Nuclear Regulatory Commission on division of activities between EM and RW

- **RW hopes to issue Revision 2 later this Summer**
 - There is an option to replace the MOA with a Departmental policy directive

