



Sodium-Bearing Waste Treatment Project Update

Presented at the Citizens Advisory Board Meeting,
March 14, 2012

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Department of Energy-Idaho



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IWTU Facility



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Project Progress

- ✓ Construction was completed on June 3, 2011
- ✓ Hot Nitrogen Integrated Systems Test completed October 20, 2011 (Key Performance Parameter)
- ✓ Contractor Management Self Assessment (MSA) completed November 18, 2011. The MSA indicated additional time should be scheduled to improve operator proficiency.
- ✓ February 19 through 25, 2012, MSA performed a follow-up review of operations performance. Indicated project ready for Contractor Operational Readiness Review (CORR)
- ✓ CORR conducted February 27 through March 9, 2012
 - Project addressing CORR pre-start findings in preparation for DOE ORR
 - DOE ORR scheduled for March 26, through April 6, 2012
 - Projected CD-4 date is April 2012 (upon completion of DOE ORR)



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Contractor Operational Readiness Review

- CORR conducted February 27 through March 9, 2012
- Scope: Verification of readiness to startup
 - The plant and equipment;
 - Management and personnel;
 - Management programs including procedures and plans
- Review addressed all IWTU systems through actual operations demonstration, simulation in field or IWTU simulator
- CORR team composed of 16 team member/subject matter experts (Frank McCoy CORR Team Lead)
- DOE ORR team members on-site to observe Emergency Drill Exercise on March 1, 2012
- Observers included representatives from DNFSB, Idaho DEQ, DOE Office of Health, Safety and Security and DOE-ID



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Contractor Operational Readiness Review -Results

- CORR Concluded-Satisfactory Performance
- CORR Team identified :
 - 9 Pre-start Findings
 - 0 Post-start Findings
 - 22 Opportunities for Improvement
 - Key elements of good safety culture evident
- The Team recommended moving forward into the Department of Energy Operational Readiness Review, startup authorization, and initial operation
- Project addressing CORR pre-start findings in preparation for DOE ORR



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DOE ORR

- DOE ORR schedule March 26-April 6, 2012
- Ed Westbrook Team Lead
- DOE ORR Team comprised of 17 members
- DOE ORR review
 - Verify readiness of facility and personnel to start the facility within the bounds of acceptable risk defined in the IWTU Safety Basis; and Applicable ES&H regulations.
 - Review encompasses both contractor and DOE personnel/programs
 - Verify CORR corrective action adequacy



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Post DOE ORR, CD-4 & Verification of Readiness

CD-4 DOE 413.3B

Post DOE ORR for CD-4 Approval

- Complete Key Performance Parameters and Provide Certification
- ✓ Issue Project Transition to Operations Plan – **Complete**
- ✓ Implement Documented Safety Analysis with TSR's - **Complete**
- ✓ Prepare a Safety Evaluation Report based on DSA and TSR's – **Complete**
- ✓ Prepare Code of Record – **Complete**
- S-5 Acquisition Executive for CD-4

Verification of Readiness DOE 425.1D

Post DOE ORR for Startup Authorization

- Contractor resolve DOE ORR pre-starts
- DOE-ID verification of pre-start closure
- Request Authorization to Initiate Startup Nuclear Operations
 - Startup Authorization Authority
Mr. James Hutton,
EM Chief Nuclear Safety
Advisor for Safety and Security
Program
- Commence Nuclear Operation
 - Implement Startup Plan
 - Implement Federal Startup Oversight Plan



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