Contract No. DE-AC09-02SR22210
Modification No. A015

Scope of Work
Salt Waste Processing Facility (SWPF)
Enhanced Conceptual Design and Transition to Phase II

Priority 1 – Incorporation of Post-Phase IB Optimizations into Conceptual Design

1. Complete Conceptual Design for SWPF Option 1 and Option 3 to include filter optimization and lowering the Solvent Extraction Cell. Conceptual Design includes revising and modifying:
   - Process Flow Diagrams
   - Mass Balance Model
   - General Arrangements
   - Piping and Instrumentation Diagrams
   - Design Control Documents
   - Process Building Structural Enhancements
   - Support Facilities (i.e., Chiller And Compressor Building) Optimization
   - Initiate NESHAPS Permitting Activities
   - Cad System Specification and Initiation of Design Model
   - Additional studies will be conducted in order to optimize the facility.

2. Develop a new Project Cost Estimate and Schedule for Options 1 and 3 enhanced SWPF.

3. Revise the Preliminary Hazards Analysis to incorporate Options 1 and 3. Review the requirements for emergency power based on design and safety reviews.

4. Review Shielding Requirements based on Options 1 and 3.

5. Complete development and conceptual design activities to optimize project interfaces in accordance with current and developing Interface Control Document agreements.

Priority 2 – Information Needed in Preparation for Phase II Work

1. Perform geotechnical and survey work to support the structural design for the SWPF.

2. Establish procurement systems including:
   - Material Control System
   - Supplier and subcontractor surveys
   - Procurement plan

Level of Effort – Updates of Project Documentation

1. Complete development of the Project Controls System Description.

2. Enhance Earned Value Management System to further define the work breakdown structure, project cost, and project schedule.

3. Revise the Interface Management Plan, Procurement Plan, Risk Management Plan, Functional Specification, Feed Strategy, Operation Requirements Document, Basis of Design, Integrated Safety Management System, Environmental Plan, Standards/Requirements Identification Document, Facility Security Plan, Operations Assessment and Tank Utilization Model, and Quality Assurance Plan.

4. Review Testing requirements and schedule to include revising the Engineering Development and Demonstration Plan.