



DUF₆ Conversion
Preproposal Conference
RFP No. DE-RP05-01OR22717

STATEMENT OF WORK
OVERVIEW

Don Wierwille, Member
Source Evaluation Board

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Statement of Work OBJECTIVE

- Design, Construct, and Operate Conversion Facilities on DOE Property
 - Two Facilities (Paducah, KY and Portsmouth, OH) Required
 - Open Ended Conversion Product
- Cylinder Management (Surveillance and Maintenance) of All DOE Inventory



Statement of Work DESIGN BASES

- Two Conversion Facilities; one at Paducah, one at Portsmouth
- Same Depleted Uranium Product
- Production Rate - Process All Inventory in 25 years or less
- Transuranic and Technetium Contaminates



Statement of Work SYSTEM REQUIREMENTS

- Technical Basis
- Functional Requirements
- Deliverable - System Requirements Document (SRD) (D-12)
- Living Document - Updated, as required



Statement of Work CONCEPTUAL DESIGN

- Initial Engineering Based on Functional Requirements
- Establishes Project Baseline
- Separate PAD/PORTS Packages
- 30% and 80% Reviews
- Deliverable - Conceptual Design Report Packages (D-13)



Statement of Work PRELIMINARY DESIGN

- Notice-to-Proceed
- Based on DOE Approved Conceptual Design
- DOE Review of Design Progress
- Preliminary Design Packages (D-14)
- Preliminary Safety Analysis Reports (D-16)
- Value Engineering Assessment



Statement of Work FINAL DESIGN

- Notice-to-Proceed
- Based on DOE Approved Preliminary Design Packages
- 60% and 90% Design Reviews
- Final Design Packages (D-15)
- Value Engineering Study
- Final Safety Analysis Reports (D-17)



Statement of Work CONSTRUCTION

- Notice-to-Proceed
- Site Preparation
- Demolition, as required
- Utilities Extension
- Systems Testing
- Operational Readiness Review
- As-Built Drawings



Statement of Work OPERATIONS

- Notice-to-Proceed
- Safely Process DUF_6 Cylinders
- Operate and Maintain in Accordance with DOE Order 5480.19, Conduct of Operations
- 6 Months (Max) On-Site Storage of Conversion Products and/or Empty Cylinders



Statement of Work OPERATIONS Con't

- Store of Radiological Waste in Accordance with DOE Order 435.1
- Process DUF_6 Cylinders in a Systematic Manner
- Annual Survey of Radionuclides
- Conversion Facilities Operations and Maintenance Plan (D-23)
- As-Built Drawings During Operations



Statement of Work DELIVERABLES

- Project Management Plan (D-1)
- Initial NEPA Data (D-2)
- Updated NEPA Data (D-3)
- Regulatory and Permitting Management Plan (D-4)
- Project Quality Assurance Plan (D-5)



Statement of Work DELIVERABLES Con't

- Conversion Product Management Plan (D-6)
- Waste Management Plan (D-7)
- Integrated Safety Management System Plan (D-8)
- Radiation Protection Plan (D-9)
- Site Security Plan (D-10)



Statement of Work DELIVERABLES Con't

- Nuclear Materials Control and Accountability Plan (D-11)
- System Requirements Document (D-12)
- Conceptual Design Report Packages (D-13)
- Preliminary Design Packages (D-14)



Statement of Work DELIVERABLES Con't

- Conversion Facility Design (Final Design) Packages (D-15)
- Preliminary Safety Analysis Reports (D-16)
- Final Safety Analysis Reports (D-17)
- Plan to Transport ETTP Cylinders to Portsmouth (D-18)



Statement of Work DELIVERABLES Con't

- Cylinder Surveillance and Maintenance Plan (D-19)
- List of Major Equipment Items (D-20)
- Procurement Plan for Long-Lead Items (D-21)
- Construction Management Plan (D-22)



Statement of Work DELIVERABLES Con't

- Conversion Facilities
Operations and Maintenance
Plan (D-23)



Statement of Work NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)

- DOE Prepare NEPA Documentation
- 10 CFR 1021 and 40 CFR 1500-1508
- Initial NEPA Data (D-2)
- Updated NEPA Data (D-3)



Statement of Work PROJECT MANAGEMENT

- Ensure Effective Performance of all Activities
 - Produce Quality Designs
 - Execute Construction
 - Operate Conversion Facilities
- Carry Out Cylinder Management
- Project Management Plan (D-1)



Statement of Work PROJECT MANAGEMENT PLAN

- Management Organization and Responsibilities
- Work Plan
- Schedule
- Configuration Management
- Site Interfaces
- Project Reporting