RPO and PPR

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Definition of RPO and It’s Goals

RPO is a systematic approach for evaluating and improving site remediation processes and an assessment of the decision logic to reach site cleanup goals.

The Goals are to:

- Reduce risk & enhance system performance
- Assess protectiveness
- Evaluate exit strategy
- Accelerate response complete and closure
- Minimize both short and long term cost
- Facilitate property transfer
- Incorporate Optimization Principles into Business Process
- Meet DERP optimization guidance
Status of RPO Efforts

**FY02**
- Conducted 6 Phase I visits at California bases and more extensive Phase II evaluations at McClellan & Mather

**FY03**
- Conducted Phase I visits at Kelly and Wurtsmith
- Continued Phase II efforts at McClellan & Mather

**FY04**
- Phase I visits conducted at KI Sawyer and Pease
- 2 to 3 more Phase I visits planned

**Goal is to complete all 30 BRAC Bases in 5 years**
Representative Findings

- Suggested improvements to groundwater extraction systems & groundwater monitoring strategies

- Provided alternative surface treatment for both extracted groundwater and soil vapor

- Updated fate and transport modeling strategies to potentially cutoff the long tail of treatment O&M

- Revised exit strategies & enhanced periodic regulatory review of systems and/or demonstrating OPS
The Results from AFRPA Site Visits

- Recommended termination of 6-10 treatment systems
- Accelerated submission of OPS documentation
- Minimize long-term costs
  - Modeling to optimize P&T at McClellan may save 10's of years at $2 to 3 million per year by reaching goals faster
- 5-year cost avoidance of up to $8 million by FY08
  - Examples:
    - Eliminate duplicate MWs saving $500K/5 years
    - Shutdown OU-1 GWTP saving $1.65M/5 years
    - SVE system optimizations saving $250K/5 years
    - Discontinue UV/OX at GWTP saving $1M+/5 years
- Improved property transfer strategies
AFRPA RPO Cost Avoidance – 10 Year

AFRPA RPO Cost Avoidance and Implementation Costs

FY 02 FY 03 FY 04 FY 05 FY 06 FY 07 FY 08 FY 09 FY 10 FY 11 FY 12

Cost ($1,000s)

$0 $2,000 $4,000 $6,000 $8,000 $10,000 $12,000 $14,000 $16,000 $18,000 $20,000

Cummulative Cost Avoidance
Cummulative RPO and Implementation Costs

$18,600,000 !!!
AFRPA RPO Cost Avoidance – 30 Year

AFRPA RPO Cost Avoidance and Implementation Costs

$113,000,000 !!!
Integrated Site Visit Teams

* Team Membership—multi-discipline
  - Engineers-chemical, mechanical, environmental
  - Chemists and quality assurance experts
  - Toxicologists and risk assessors
  - Geologists and hydrogeologists
  - Regulatory and Database specialists

* Team Membership—multi-agency
  - Federal - COE, Navy, DOE, AFRPA, AFCEE
  - State - NJ, CA, GA, ME
  - Contractors - Mitretek Systems, Parsons
Support of ITRC RPO Team

- AFRPA supports ITRC with funding and contractual support for the RPO Team

- ITRC State members have been trained on RPO through participation in AFRPA RPOs

- AFRPA assisted in writing ITRC’s RPO Technical Regulatory Guidance and internet training materials to be released in June 2004

- Supports ITRC participation in this conference
RPO Summary

- RPOs will continue and become integral to AFRPA's remediation efforts
- Status of recommendations will be monitored and reported up-channel
- Cost Avoidances are real in short-term and predictable in long-term but there can be a multiple year lag in between
- Goals remain clear
  - Maintain protectiveness of remedial systems
  - Enhance system performance
  - Minimize cost
  - Facilitate property transfer
  - Meet DERP guidance
Questions?