### **RPO and PPR**



### **U.S. AIR FORCE**

Presented by:
Rod Whitten
Air Force Real Property Agency
AFRPA/EV



## **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



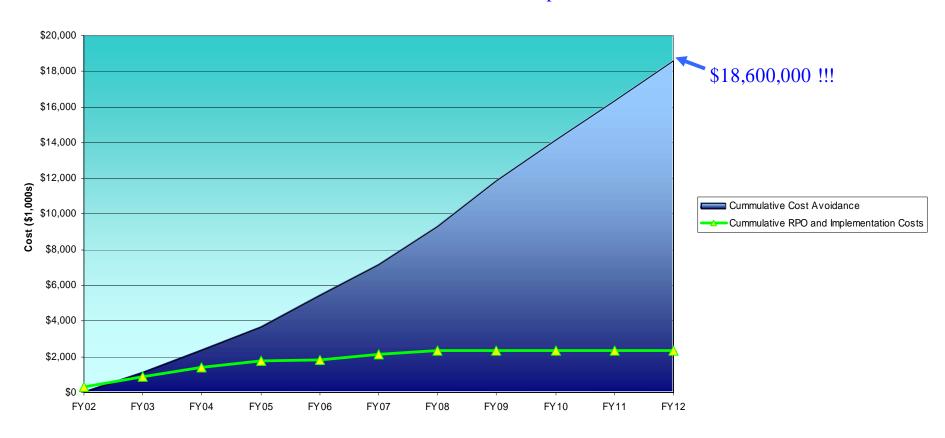
### The Results from AFRPA Site Visits

- ★ 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**

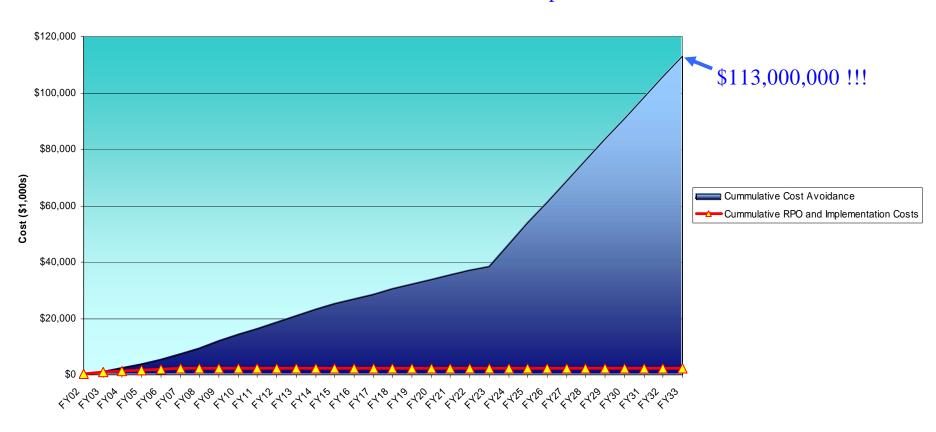
#### AFRPA RPO Cost Avoidance and Implementation Costs





## **AFRPA RPO Cost Avoidance – 30 Year**

#### AFRPA RPO Cost Avoidance and Implementation Costs





# **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?**