# Navy Range Sustainability Environmental Program Assessment (RSEPA)

Ms. Wanda L. Holmes, P.E. U.S. Navy, Chief of Naval Operations Environmental Council of States 10 February 2006

#### **Purpose of Brief**

 Status of Range Sustainability Environmental Program Assessment (RSEPA)

- What is RSEPA?
- RSEPA Approach
- Navy Range Assessment Status



 Range Sustainability Environmental Program Assessment (RSEPA) is one of five components of the Navy's range sustainability investment known as the Tactical Training Theater Assessment and Planning (TAP) Program

#### RSEPA Implementation Manual Rev 0

- Signed 8 January 2004
- RSEPA Implementation Manual Rev 1
  - Projected completion FY06

#### Range Sustainability Environmental Program Assessments (RSEPA)

#### What is RSEPA?

- A range compliance management process to ensure long-term sustainability using a phased approach
  - Ensures compliance with applicable regulations
  - Identifies and assesses potential for off-range migration at land-based ranges
- Provides a technically defensible approach for assessing the environmental condition of landbased operational ranges
- Provides a framework for informed decisions about when and how to proceed with a comprehensive assessment and protective measures, if necessary

### **RSEPA Approach**

#### Range Condition Assessment (RCA) (Qualitative/Quantitative)

• An RCA is conducted to determine if steps are necessary to maintain compliance and to determine if further analysis is required to assess a risk of an off-range release. Conduct every five years.

#### Comprehensive Range Evaluation (CRE) (Quantitative)

• If further analysis is required after the RCA, a CRE will be conducted to verify and confirm if an off-range release of munitions constituents has occurred or if there is significant risk that an off range release could occur.

#### Sustainable Range Oversight During Off-Range CERCLA Response (SRO)

 An SRO is conducted in the event an off range release has occurred. The focus of this phase is to ensure range sustainability is maintained while proceeding through the Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) process for off-range releases.



### **Qualitative Process**

#### Background research

- On-site interviews of appropriate personnel
  - Determine compliance with environmental statutes, etc
- On-site assessment (walk the range)
  - Confirm background research and fill data gaps
- Develop Data Quality Objectives
- Develop Operational Range Site Model (ORSM)
  - 3-D hydrologic and hydrogeological picture of the range
  - Conceptual site model
- Conduct predictive modeling (fate and transport)
  - ORSM integrated with range utilization data
  - Model potential vertical and horizontal migration of munitions constituents through various environmental media

### **Sampling Rational**

- Ranges will be sampled if any of the following conditions are met:
  - Results of predictive modeling inconclusive
  - Results of ORSM/predictive model shows potential migration of MC off range/risk to human health and environment
  - Anomalies (buried munitions)
  - Inconclusive knowledge of range (data gaps)
- Initially sample outside of impact area and move out towards range boundary

# **Munitions Constituents**

- Developed NAVSEA Laboratory Quality
  & Accreditation Office
- Ordnance Environmental Support Office
- Marker Compounds (RDX, TNT, HMX) and Degradants
- Perchlorate
- EPA SW-846 (sampling analysis guideline)
  - Methods 8330, 8095, 8321, 8321A, 314

#### **Navy Range Assessment Status**

- Number of training range complexes scheduled for assessments: 11
- Number initiated: 11 (including 3 prototypes)
- Estimated completion date: End of FY08
- Number of test and evaluation ranges schedule: 5
- Number initiated: 3 (FY07): 2 (FY08)
- Estimated completion date: End of FY08

# **QUESTIONS???**



## **Execution Status RSEPA Training Ranges**

Range Complexes	RCA Initiate	RCA Status	CRE Initiated	CRE Status
SOCAL (2000 SHOBA SWAT 1 & SWAT 2, MIR) <b>Prototype</b>	FY02	Undergoing Final review	N/A	N/A
VACAPES (Dare 2078; Dam Neck 2 small pads launch = 2080) <b>Prototype</b>	FY02	Undergoing Final review	N/A	N/A
Fallon Range Training Complex (Bravo 16 - 17,434; Bravo 17 - 21,376; Bravo 19 - 17,267; Bravo 20 - 41,282 = 97,359) <b>Prototype</b>	FY02	Undergoing Final review	N/A	N/A
Jacksonville/Charleston (Rodman 2,696, Pinecastle 5,698 = 8394)	FY03	Final	FY05	FY05
Hawaii (Kaula Rock 108, Pacific Missile Range Facility, West Loch EOD)	FY05	Underway Final review		
Key West (demo key/water range)	FY04	Archival search		

## **Execution Status RSEPA Training Ranges**

Range Complexes	RCA Initiate	RCA Status	CRE Initiated	CRE Status
Marianas (FDM)	FY05	Underway		
GOMEX/Meridian (McMullen (2780+2780); Sea Ray 2,880	FY04 McMullen FY05 (Sea Ray)	McMullen final draft Sea Ray underway		
Northeast Range Complexes (small point mining range)	FY06	Archival search		
Whidbey Island (Boardman 58, 373; Whidbey EOD 7 = 58380	FY03	Final	FY04	Final
El Centro (Target 101 – 18550; Target 103 – 10260; Parachute target 7909; Target 68 – 8325; Target 95 – 6207 = 51251)	FY05	Underway		

### Execution Status Test Ranges RSEPA

Range Complexes	RCA Initiate	RCA Status	CRE Initiated	CRE Status
Point Mugu Sea Range Complex	FY07			
Atlantic Test Range	FY07			
Dahlgren	FY07			
Indian Head	FY08			
China Lake	FY08			