



# USACHPPM

*Readiness thru Health*

U.S Army Center for Health Promotion and  
Preventive Medicine

## Technical Services & Emergency Response Capabilities

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Support Operations Division

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# Agenda

- MEDCOM Pam 525-1
- SMART-PM Mission
- SMART-PM Activation Scheme
- SMART-PM Structure
- SMART-PM Capabilities
  - ◆ Preparedness Planning
  - ◆ Consequence Management Support Roles
- Questions, Summary, & Contact Information



# MEDCOM Pam 525-1 Medical Emergency Management Planning

## Special Medical Augmentation Response Team (SMART)

◆ **Mission:** Provide short duration, medical augmentation to local, state, Federal and defense agencies or medical teams responding to disasters, civil-military cooperative actions, humanitarian assistance, weapons of mass destruction incidents and emergencies.

◆ **10 specialized functions; 37 teams total --** primarily augments the medical response during an

-- **SMART-Preventive Medicine (SMART-PM) -**  
**Focuses on the impact to human health and the environment.**



# SMART- PM Mission

-- Focused on Health and Environmental Impact --

***Provide rapid disease and environmental health threat assessment, and limited sampling, monitoring and analysis to local, state, Federal and defense agencies or medical teams.***

- ◆ Tasked by MEDCOM after an incident, installation, or hospital commander requests support assistance.
- ◆ Enhanced capabilities using reach back to

Not a First Responder Role!

Supports the First Responder

er medic  
RAIR, USA



# SMART-PM Activation Scheme

Natural Disaster, Terrorist-related Event, Industrial Accident, or Other (CBRNE)...

Military Installation or Theater of Operations

Off Post / Civilian Community

Installation First Responders (Fire Dept, Med...)

Local First Responders (Fire Dept, HAZMAT...)

Regional Medical Center or higher command

State or Federal Agency (FEMA, CST, **HLS**...)

DoD, DOMS (NORTHCOM) HQDA/JTF-CS

**USACHPPM MEDCOM Tasker**

DoD, DOMS (NORTHCOM) HQDA/JTF-CS





# SMART-PM Structure

## Coordination Element

- ◆ Rapid Response Officer (RRO) - Environmental Science Officer and/or Sanitary Engineer.
- ◆ Deployed within 12 hrs of support request.

**Team composition is tailored to the incident**

**Technical Elements** -- Deployed within 24 hrs of initial support request.

- ◆ Preventive Medicine Physician
- ◆ Health Physicist
- ◆ Environmental Science Officer and/or Sanitary Engineer
- ◆ Industrial Hygienist
- ◆ Medical Entomologist
- ◆ Community Health Nurse
- ◆ Epidemiologist / Infectious Disease Physician
- ◆ Preventive Medicine / Environmental Sciences Tech.
- ◆ Risk Communicator



# SMART-PM Capabilities

## Preparedness Planning

- Vulnerability assessments (*i.e., food & water on post*)
- Global Threat Assessment Program (*All-source intelligence-based assessments*) -- Modeling of potential hazards (*“what if” analysis*)
- Review existing Crisis Communication Plan (*to emphasize human & environmental concerns*)
- Provide training (*i.e., risk comm.*) & exercise development (*i.e., WMD [Nuclear/Radiological]*)

<http://chppm-www.apgea.army.mil/dehe/pgm31/WaterSec3.aspx>

watersec3 - Microsoft Internet Explorer

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USACHPPM Search



US Army Center for Health Promotion and Preventive Medicine  
Environmental Health Engineering (DEHE)

ARMY WATER SYSTEM SECURITY



- [USACHPPM Home](#)
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- [Field Water](#)
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The USACHPPM provides assistance to military soldiers and civilians worldwide on the following water security topics:

- [Emergency water system assistance](#)
- [Water system vulnerability assessments](#)
- [Water emergency response plans](#)
- [Water system emergency response exercises](#)
- [Recent presentations and guidance documents](#)

**Emergency ASSISTANCE**

Immediate Help  
If this is an emergency please [contact USA](#) systems respond to an emergency. The US

Useful Documents  
Documents found at the can be used for ad

**Vulnerability ASSESSMENTS**

**Vulnerability ASSESSMENTS**

Compliance Issues  
Military water systems in the US that serve more than 3,300 customers must conduct a water system vulnerability assessment according to the [Bioterrorism Act](#), [DoD Policy](#) and [Army Policy](#). These assessments must be submitted to EPA HQ using couriers that can handle classified information by a deadline.

**Emergency Response EXERCISES**

Military water systems that assessment according to the is that the installation notified

The US Army's Water Vulnerability We developed the US Army executed it at more than 70 Contact [us](#) to learn about h

**Emergency Response**

Compliance Issues  
After the water system vulnerability US that serve more than 3, EPA HQ. Instead a certified

Military water systems that DOD and Army Policy. The

The The US Army's Emergency We developed the US Army develop their ERP.

Contact [us](#) to obtain a copy

**Emergency Response EXERCISES**

Practice and Be Prepared  
The first time the ERP is used should NOT be during an actual emergency (e.g., terrorist attack). Merely developing the ERP will obtain compliance, but unless it has been previously tested the plan will likely be ineffective.

Military water systems worldwide are conducting tabletop and field exercises to test their ERPs. Exercises are effective tools for improving communication between potential responders, identifying response strengths and weaknesses, and demonstrating to installation consumers health protective efforts.

Contact [us](#) to learn more about emergency exercises we have conducted and how one could help you.



**Recent PRESENTATIONS and GUIDANCE DOCUMENTS**

File Title	File Type	Authors
Water System Emergency Response Plan Protocol	Technical Guide	USACHPPM
Choosing an Alternate Water Supply During an Emergency	Fact Sheet	USACHPPM
Emergency Drinking Water Disinfection Procedures	Fact Sheet	USACHPPM
Consumer Complaints: Indicators from Distribution Sentinels	Paper, Pres.	Whelton, Dietrich, Burlingame, Cooney
The Cyanic Threat to Potable Water	<a href="#">Paper, Pres.</a>	Whelton
Consumer Complaints: Indicators from Distribution Sentinels	<a href="#">Technical Guide</a>	USACHPPM
Drinking Water Consumer Complaints, Factsheet	<a href="#">Technical Guide</a>	USACHPPM
The Untapped Drinking Water Surveillance Resource	Paper, Pres.	Whelton, Jensen, Richards, Valdivia
US Army Food and Water vulnerability Assessment Guide	<a href="#">Technical Guide</a>	USACHPPM
A CHPPM State-of-the-Art Water System VA Approach	Paper	Timmes, Richards, Valcik
Countering Terrorism of Drinking Water Supplies, Factsheet	<a href="#">Paper</a>	USACHPPM





# SMART-PM Capabilities

**Emergency Response:** What is the impact on Health & the Environment?

**Consequence  
Management  
Support**

## Assistance Roles

- Initial situation assessment
- Consultative SME support (*on-site & reach back*)
- Re-entry and Restoration



# SMART-PM

## Consequence Management

### Assistance Role - 1: Initial Situation Assessment

- ◆ Coordinate with incident commander; coordinates with local, State, & Federal agencies
- ◆ Qualitative assessment of the type & level of contamination (or potential contamination)
  - Radiological: external radiation exposure assessment
  - Biological: transmission vectors; pathogenic organisms
  - Toxic Industrial Compounds: VOCs, combustibles, chlorine, ammonia...
- ◆ Provide incident commander with a general conservative health risk to affected populations



# SMART-PM

## Consequence Management

Highest Level of Public Health & Environmental Sciences Support (*Subject Matter Experts*) for Department of the Army Assets.

### **Assistance Role - 2: Consultative SME Support**

- ◆ Radiological/Nuclear
  - Decontamination (*personnel, equipment, property*)
  - Ground/air deposition evaluations
  - Bioassay & radiation dose assessments
- ◆ Toxic Industrial Chemicals & Environmental Contaminants
  - On-site air, soil, & water analysis; Comprehensive laboratory reach back
  - Hazardous & biological/medical waste management guidance
  - ✚ Immediate & long-term environmental impact assessment
  - ✚ Predicted short & long-term medical effects on impacted populations
  - ✚ Health consequence minimization guidance
- ◆ Hazard Modeling Refinement (*Air, Water, Infrastructure*)



# Consultative SME Support (continued)

- ◆ Tailored entomological & vector surveillance
- ◆ Epidemiology
  - ★ Disease outbreak investigation; undetermined etiology cluster analysis
  - Smallpox Emergency Response Team
- ◆ Personal Protective Equipment: surveillance of environments to reduce or increase PPE level of emergency responders & medical support element.
- ◆ Risk Communication
  - Human effects /medical concerns and environmental concerns
  - Prep/coach incident commander
  - Draft press releases & fact sheets
  - Consultant to PAO; assist in communications with media, public, and other stakeholders
  - Translate technical medical information into lay terms



# SMART-PM

## Consequence Management

### Assistance Role - 3: Re-entry and Restoration

- ◆ Provide oversight of remediation activities
  - Continued occupational & environmental sampling and analysis to ensure health hazards have been removed.
- ◆ Radiological/Nuclear incident recommendations
  - Decontamination of land & property
  - Food & water controls
- ◆ Clean-up & Removal Actions
  - Health risk determination for long-term remediation situations
  - Lead & asbestos abatement guidance
  - Indoor air quality issues (i.e., anthrax decon)
- ◆ Medical follow-up recommendations
  - emergency responders; medical personnel; civilians
- ◆ AAR and Preparedness Plan consultation



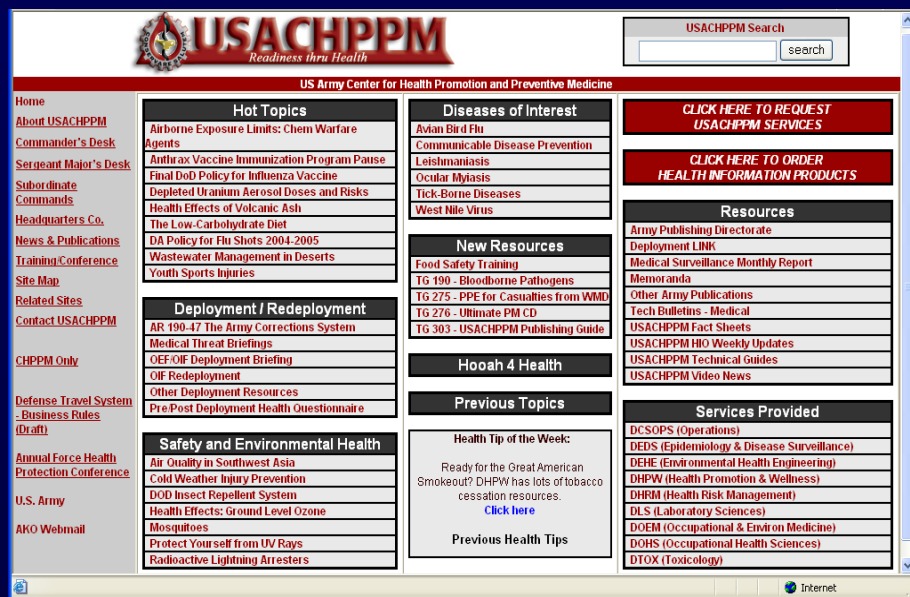
# QUESTIONS

<http://chppm-www.apgea.army.mil>

<http://www.chppm.com>

## Summary

- ◆ MEDCOM Pam 525-1
- ◆ SMART-PM Mission
- ◆ Activation Scheme
- ◆ SMART-PM Structure
- ◆ SMART-PM Capabilities
  - Preparedness Planning
  - Consequence Management Support Roles



## Helpful Numbers (DSN 584)

Support Operations: 410-436-1997 / 7002 / 2488

USACHPPM Help Line: 1-800-222-9698

USACHPPM SDO: 410-436-4375

USACHPPM EOC: 410-436-7301

USACHPPM-EOC@APG.AMEDD.ARMY.MIL

# GLOSSARY

- **AAR:** After action review
- **CBRNE:** Chemical, Biological, Radiological, Nuclear, and directed Energy
- **DoD:** Department of Defense
- **DOMS:** Director of Operations Medical Support
- **EOC:** Emergency operations center
- **HQDA:** Headquarters, Department of the Army
- **JTF-CS:** Joint Task Force, Civil Support
- **MEDCOM:** Medical Command
- **MRICD:** Medical Research Institute for Chemical Defense (part of MRMC)
- **MRMC:** Medical Research and Materiel Command
- **NORTHCOM:** Northern Command
- **PAO:** Public affairs office (officer)
- **PPE:** Personal protective equipment
- **SDO:** Staff duty officer
- **SMART-PM:** Special Medical Augmentation Response Team, Preventive Medicine
- **SME:** Subject matter expert
- **USACEHR:** US Army Center for Environmental Health Research (part of MRMC)
- **USACHPPM:** US Army Center for Health Promotion and Preventive Medicine
- **USAMRIID:** US Army Medical Research Institute for Infectious Disease (part of MRMC)
- **VOC:** Volatile organic compounds
- **WRAIR:** Walter Reed Army Institute of Research (part of MRMC)