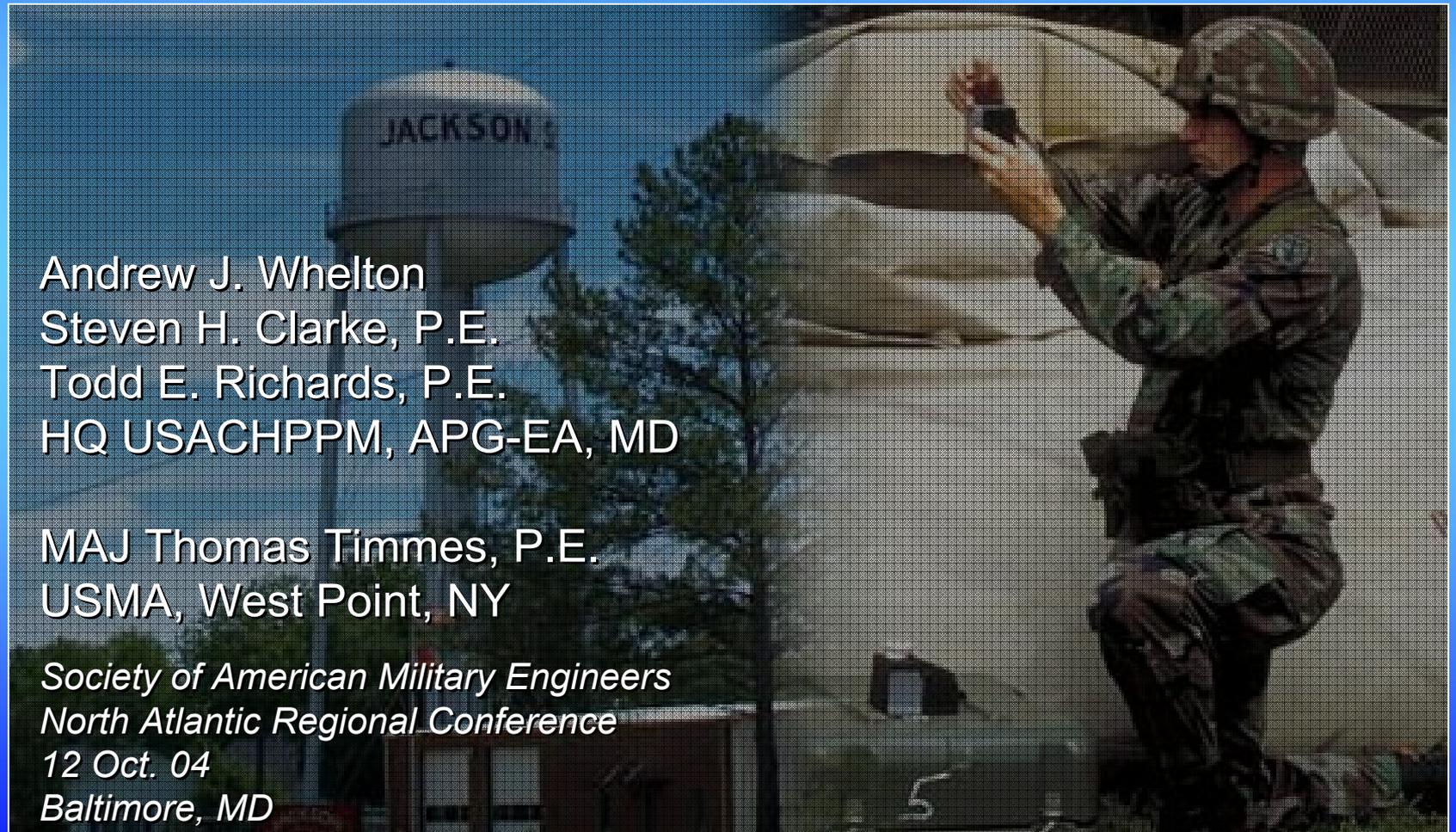


Force Health Protection On the Battlefield and in Garrison *Water System Security*

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North Atlantic Regional Conference
12 Oct. 04
Baltimore, MD*



Overview

1. About the USACHPPM
2. Pre 9/11 - Force Health Protection
3. Post 9/11 - Force Health Protection



USACHPPM

Readiness thru Health

US Army Center for Health Promotion and Preventive Medicine

Headquarters

APG-EA, MD

Field Offices

Ft. Meade, MD

Ft. McPherson, GA

Ft. Lewis, WA

Camp Zama, Japan

Landstuhl, Germany



Provides Health Promotion and Preventive Medicine Leadership and Services to Counter Environmental, Occupational and Disease Threats to Health, Fitness and Readiness in Support of the National Military Strategy

Safe Drinking Water Powers Our Ultimate Weapon



Prior to 9/11 USACHPPM Helped Protect Force Health

- Warfighter consultative assistance
 - Water health threat evaluations
 - Treatment options
 - HHTD selection
- Expert guidance
 - Biological Agent Threat Paper (1997)
 - Terroristic Threat Paper (1997)
 - Emergency Response Plan IP (1998)
- Collaborated with multiple federal agencies on improving military water security



Post 9/11 the USACHPPM Focused Efforts on Water Vulnerability Guidance for OEF Support



- Developed the US Army's water VA method (TG 188)
- Conducted more than 60 VAs worldwide
- Performed myriad desktop consultations
- Trained DPWs on water vulnerability
- Expert water security R&D group participation

The Cornerstone of USACHPPM

Water Security Support is the Water Vulnerability Protocol

- Requested by the Army's Surgeon General (2001)
- Utilizes Army Risk Management
- "Speaks" Commander language
- Final risk based on all information collected



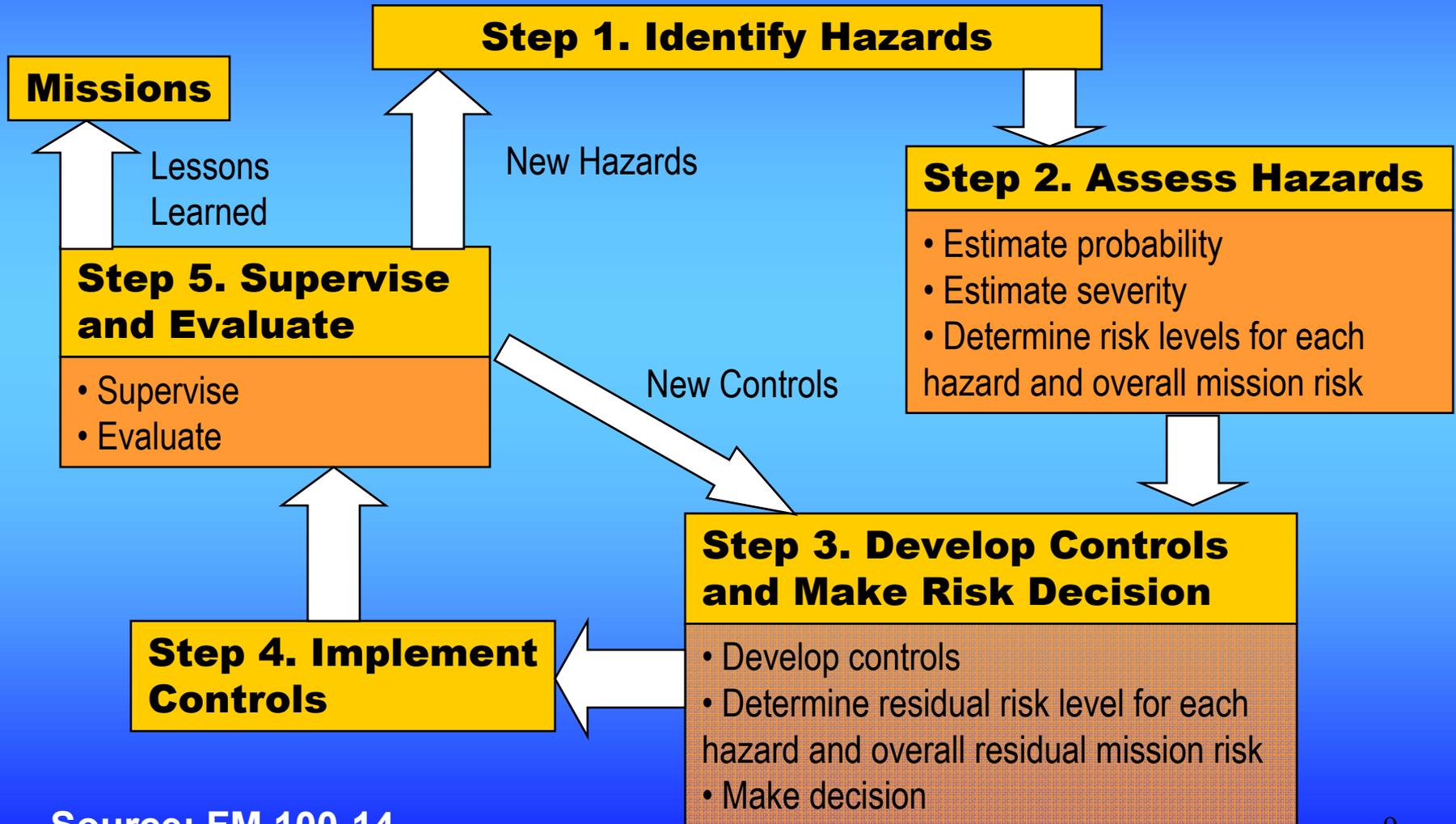
Extremely High

High

Moderate

Low

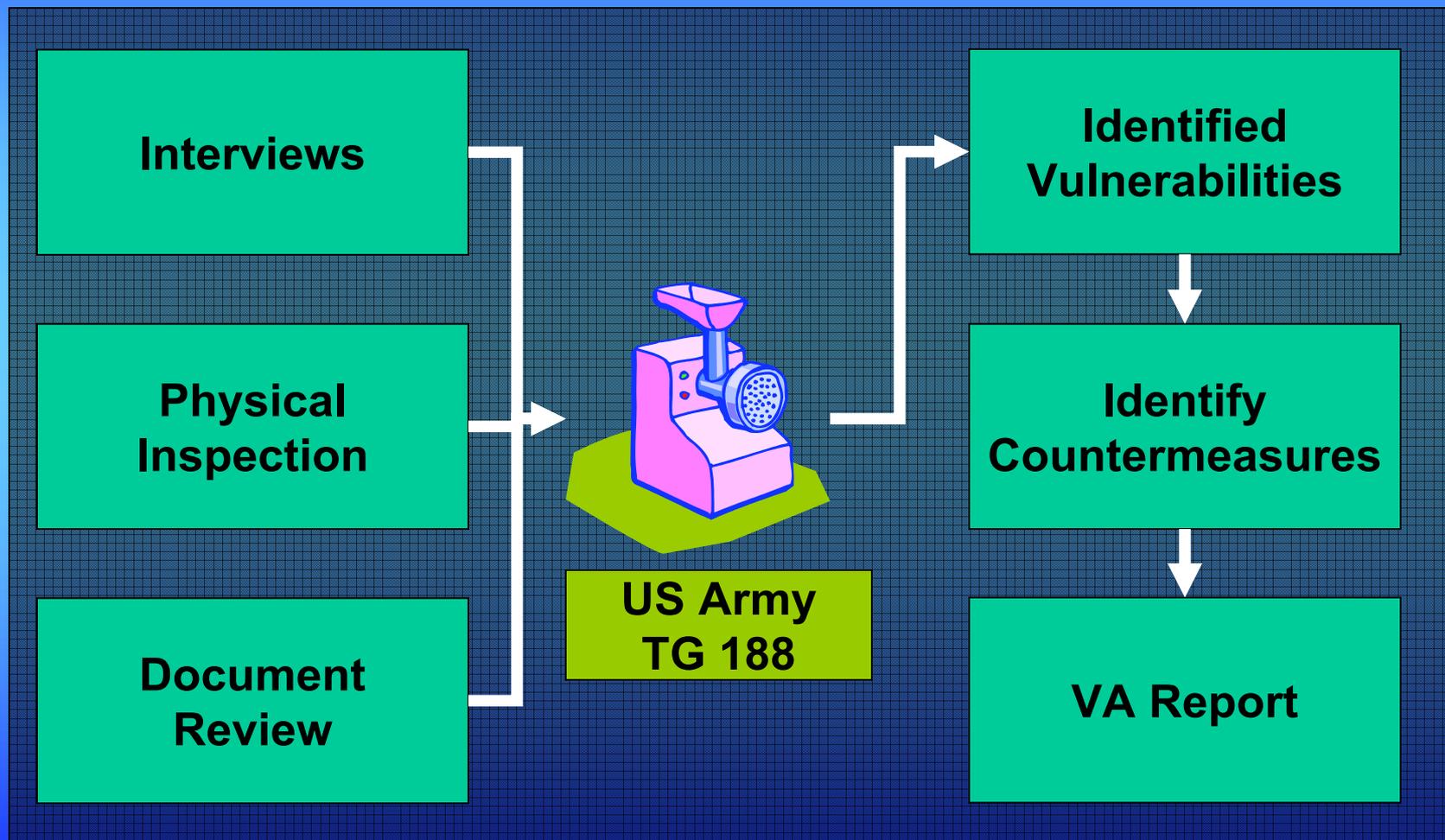
Military Operational Risk Management was Integrated into US Army TG 188



An Interdisciplinary Team is Required on All Vulnerability Assessments

- Tap installation experts
 - Force Protection / Anti-Terrorism
 - Public Works / Engineers
 - MEDDAC / Preventive Medicine
 - Emergency Services / Fire Department
 - Law Enforcement & Intelligence / Military Police and Intelligence

US Army TG 188 Provides a Framework For Analyzing Information



The Risk Matrix is the Foundation of US Army TG 188

		HAZARD PROBABILITY				
		Highly Likely	Likely	Probable	Questionable	Unlikely
HAZARD SEVERITY	Catastrophic	Extremely High	Extremely High	High	High	Moderate
	Critical	Extremely High	High	High	Moderate	Low
	Marginal	High	Moderate	Moderate	Low	Low
	Negligible	Moderate	Low	Low	Low	Low

Deployed Forces Are Executing Water Vulnerability Assessments Worldwide



- JCS Memo 2002 requirement
- USACHPPM provides redeployment training to Air Force, Marines, and Army in support of OIF
- Trains Preventive Medicine and VET personnel on field water VAs
- Reviews VAs from various AOs

US Army TG 188 is Most Applicable to Deployed Units and Garrisons

Method	Ease of Use	Approach	EPA compliance	Customization	Utility Size Intent
DTRA JSIVA	Complex	Installation wide vulnerability assessment; water is minor component	No	Yes	All
US ARMY TG 188	Simple	Paper based on Army risk management; questionnaires & checklists	✓	Yes	Small & Medium
ASDWA	Simple	Paper based checklist	✓	No	Small
NETCSC-water	Simple	Same as ASDWA	✓	No	Small
WDH/ERW	Simple	Same as ASDWA	✓	No	Small
AWWA Field Guide	Simple	Paper based guidance	No	N/A	All
NEWWA ASSET	Simple	Software based guidance & checklist	✓	Partial	Small
NRWA Online VA	Simple	Online based program	✓	Yes	Small
VSAT™	Moderate	Software based risk assessment analysis	✓	Yes	All
CARVER	----	Offensive based; Not defensive or preparedness based	No	----	----
Raw-WSM	Complex	Paper based questionnaire and fault tree	✓	Yes	Large
Raw-WSM Lite	Moderate	Paper based questionnaire and fault tree	✓	Yes	Small & Medium



**US Army TG 188 Has Been Executed
at More than 60 Systems Worldwide**

**US Army TG 188
is classified as
For Official Use Only**

**Request through
Water.Supply@apg.amedd.army.mil**



The Next Major Keystone of Water Security Support is Emergency Response Support

- US Army TG 297, Water System Emergency Planning (draft)
 - Unlimited distribution
 - Finalization in August 2004
- Develop water system ERPs
- Execute tabletop/field exercises
- Battlefield water incident response protocol (Draft)



The USACHPPM Has Supported Force Health Protection with Emergency Response Support



- Natural and man-made threat assistance
- Field and garrison threat assessments
- Special Medical Augmentation Response Team (SMART)- Preventive Medicine (PM)
- Executed a water contamination field exercise
- Operation Tie Down (Pentagon)

Installations Must Overcome Several ER Challenges to Better Protect Health

- Cooperation between Medical, Public Works, & Contractors
- Improve distribution system surveillance
- Comprehend host-nation/local support
- Define response roles



Post 9/11 – Water Security Publications

- Factsheets
 - Countering Terrorism of Drinking Water Supplies (2001)
 - Drinking Water Consumer Complaints (2003)
- Information Paper
 - Battlefield response protocol for water tampering incidents (Draft)
- Technical Guides
 - Food and Water Vulnerability TG 188 (2002; Rev.2004)
 - Drinking Water Consumer Complaints TG 284 (2003)
 - Water System Emergency Response Planning TG 297 (Draft)
- Conference, Magazine, and Newsletter Papers
 - Force Health Protection and Military Drinking Water Supplies (2003)
 - The Cyanic Threat to Potable Water (2003)
 - Cyanide as a Drinking Water Contaminant (2003)
 - Untapped Military Drinking Water Surveillance Resource (2003)
 - Overlooked Contaminated Water Detection (2004)

The USACHPPM Provides Expert Drinking Water Support to Protect the Health of our Military Personnel at Home and Abroad



To Learn More About the USACHPPM, its Services, and Publications Visit



The Water Supply Management Program

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

The USACHPPM Homepage

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

Contact The USACHPPM for Guidance on Military Water System Security



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