

1st Civil Support Team (Weapons of Mass Destruction) Massachusetts National Guard



**Major Matthew Woolums
Commander**

CST Background



- 1997: Secretary of Defense directed the establishment of Rapid Assessment and Identification (RAID) teams
- To meet a capabilities gap in responding to domestic use of WMDs and in response to recent attacks
 - First World Trade Center bombing (1993)
 - Tokyo subway Sarin attack (1995)
 - Oklahoma City Federal Building (1995)
 - Khobar Towers bombing (1996)
- First 10 CSTs were validated in 2001
(One CST per FEMA region)



1st CST Mission Statement



- Support civil authorities at a domestic incident site by **identifying** CBRNE agents/substances, **assessing** current and projected consequences, **advising** on response measures, and **assisting** with appropriate requests for additional support.
 - *Intentional or unintentional* release of nuclear, biological, radiological, toxic or poisonous chemical materials.
 - *Natural or man-made* disasters in the United States that result in, or could result in, catastrophic loss of life or property.
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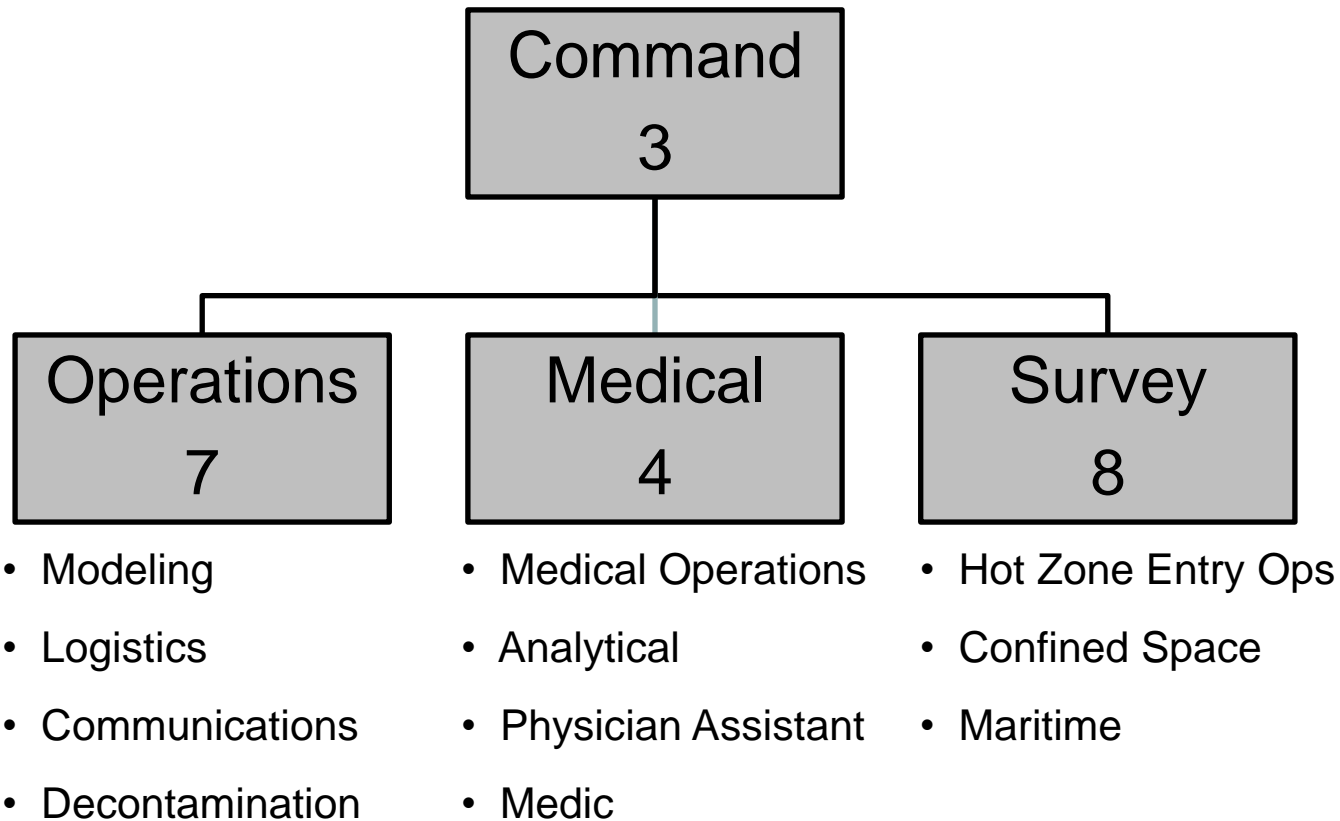
CST Organizational Facts



- 22 Air & Army National Guard personnel
 - Strike Team on 1 hour alert 24/7
 - Federally funded
 - Full time (Title 32)
 - Reports to the Incident Commander
 - Tailored response package
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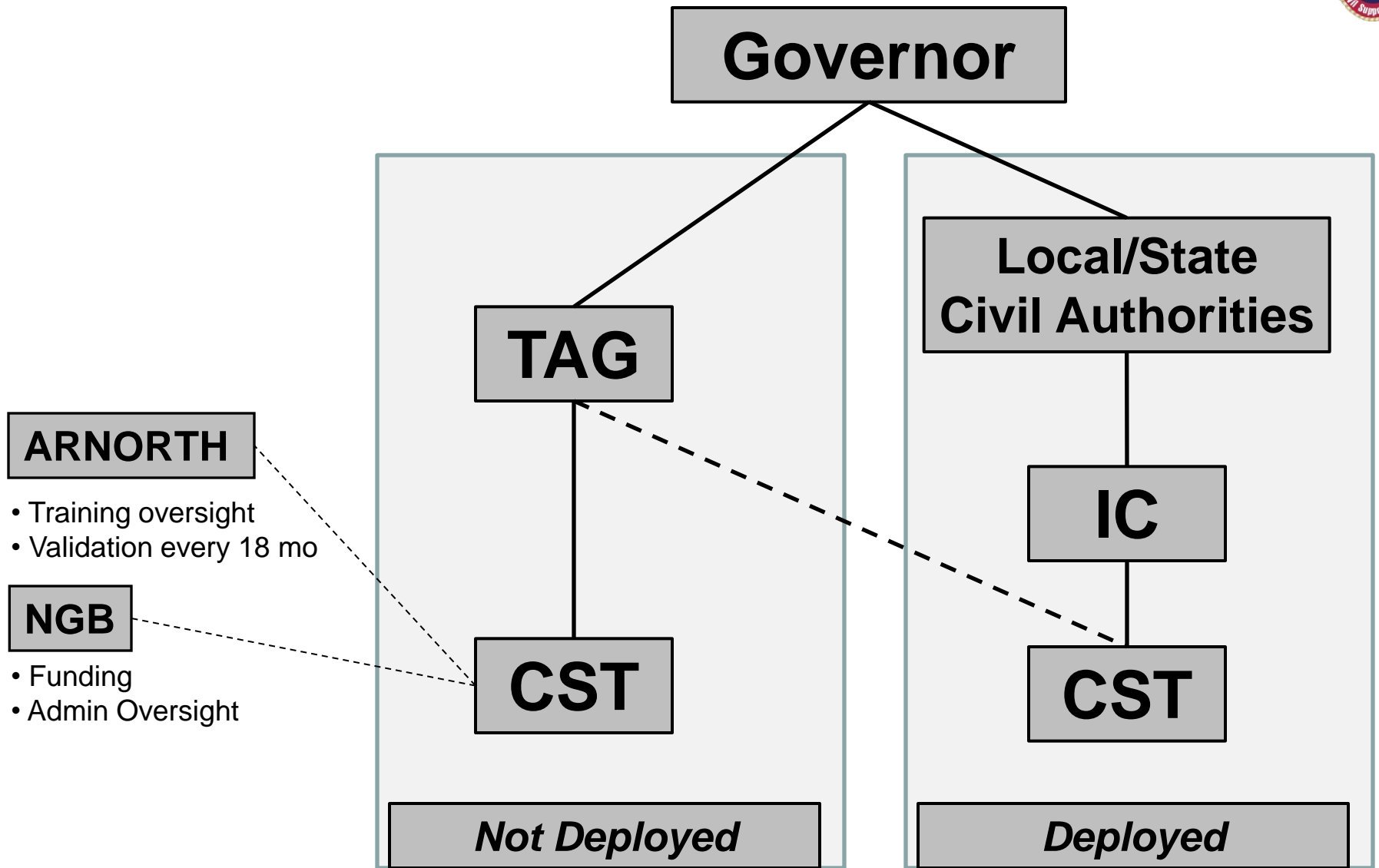
Organizational Structure



Designed to fall in on an existing Incident Command Structure



Command Relationships



CBRN Response Enterprise



State Response

Federal Response

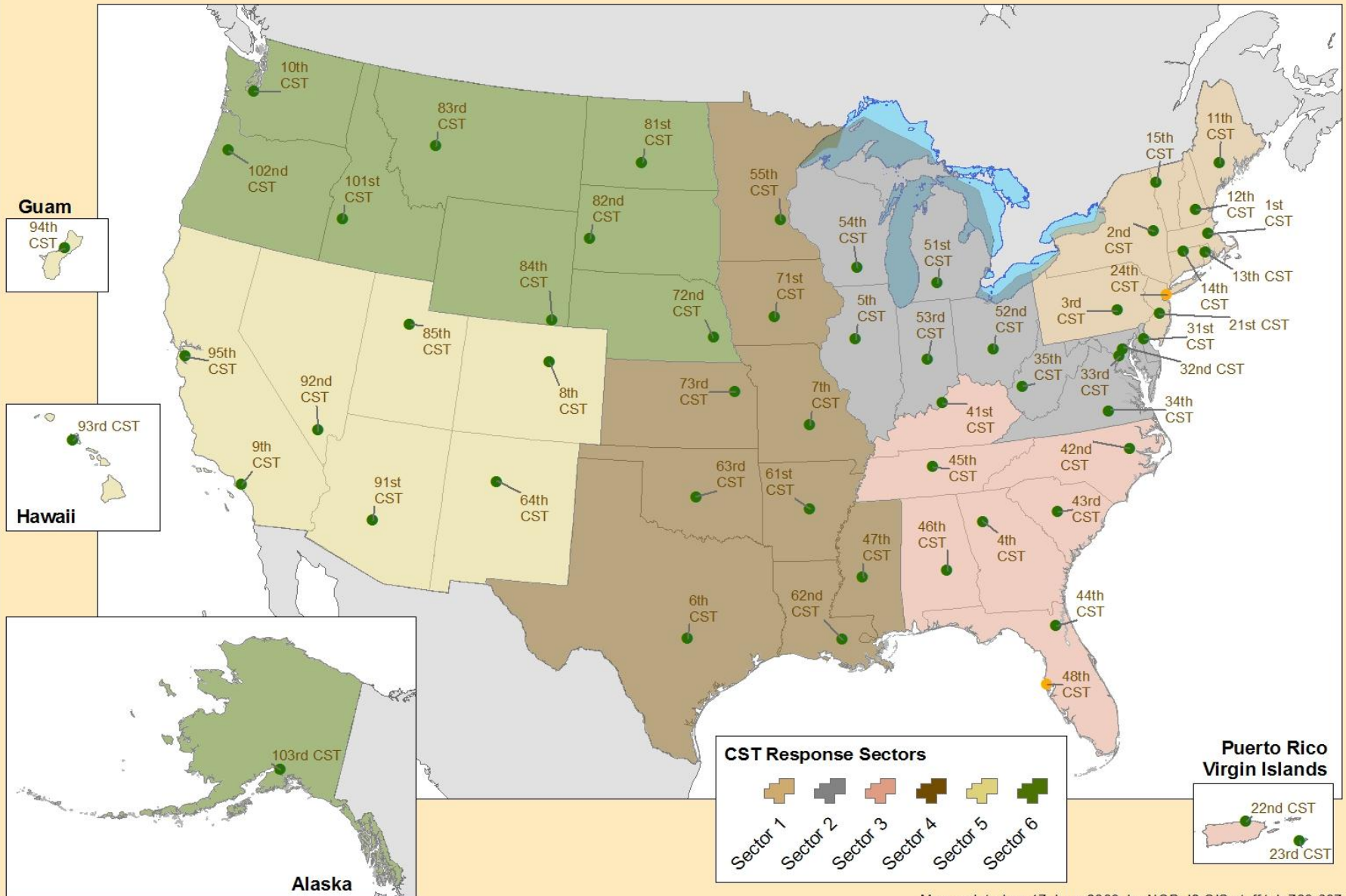
State NG assets may
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State NG assets may operate under State or Federal control		HRF (10 units) 566 / 5,660 (no FSRT)	DCRF 5200 personnel FP 1 (2,100) FP 2 (3,100)	C2CRE A & B 1,500 Each	
WMD-CST (57 Teams) 22 / 1,254 -Detection / ID -Rapid Assessment of Hazmat	CERFP (17 units) 186 / 3,162 (FSRT 17 teams 11 / 187)		-C2 -Search & Extraction -Decontamination -Emergency Medical -Security	-C2 -CBRN Assessment -Search & Extraction -Decontamination -Emergency Medical -Level 2 & 3 Med w/ Surg Cap -Security -Engineering -Logistics -Transportation -Ground MEDEVAC & CASEVAC -Aviation Lift -Aviation MEDEVAC & CASEVAC	-C2 -CBRN Assess -Search & Extr -Decon -Emerg Med -Lvl 2 Med -Engineering -Logistics -Transportation
	-Search & Extr -Decontamination -Emergency Med	Prep'd to Dply NLT N+96 Hrs			
	Prepared to Deploy NLT N+3 Hours				

← Dedicated Forces → Contingency Sourced



Civil Support Team Locations/Sectors



CST Training Requirements



- Entire Team
 - NFPA HAZMAT Technician
 - Incident Command System (ICS)
 - Trained to MA DPH Lab Standards
 - Trained to FBI Evidence Collection Standards
- Specialized Training
 - Medical Effects of Ionizing Radiation
 - Medical Management of Chem/Bio casualties (Edgewood)
 - Advanced Microscopy
 - Confined Space/Collapsed Structure
 - Field Identification of Biological Warfare Agents
 - Chemical & Biological Warfare Courses

Average Specialized Individual Training = 740 hrs

Support Capabilities to the IC



- Survey and sampling
- Robust communications interoperability
- Rapid identification of Chemical, Biological, Radiological and Nuclear (CBRN) hazards
- CBRNE plume modeling
- WMD medical expertise
- Stand-by for pre-planned events
- Support from a remote location
- Training assistance



New Bedford Mustard Response, June 2010

Technical Reach-Back



- Defense Threat Reduction Agency (DTRA)
 - Edgewood Chemical Biological Center (ECBC)
 - FBI WMD Coordinator (HMRT/HMRU)
 - Las Alamos National Laboratory
 - Center for Disease Control (CDC)
 - Department of Public Health (DPH)
 - Massachusetts Institute of Technology Lincoln Labs (MIT-LL)
 - United States Army Medical Research Institute for Infectious Diseases (USAMRIID)
-

Communications Equipment



Advance Echelon (ADVON)



Unified Command Suite (UCS)

- Military secure satellite (NIPR/SIPR)
- Secure/non-secure satellite phone, fax, data
- Radio capabilities (HF, VHF Low and High, UHF Low and High, 800MHz)
- Cross Banding Capabilities: Incident Commander's Radio Interface (ICRI) and ACU 1000
- UHF tactical satellite and INMARSAT
- Downrange recordable video
- Voice Over Internet Protocol (VOIP)
- Field Video Teleconference (VTC)

Hazard Prediction/Modeling

CATS

- Near real time damage and CM assessment
- Assesses personnel / property at risk

ArcGIS

- Situational Awareness Mapping



HPAC

- Workstation-based for modeling winds over complex terrain





Self-Sustaining Capabilities

- Technical Decontamination
- Medical Treatment
- Logistics
 - *No burden to the IC*



Medical Recovery Vehicle



Lightweight Inflatable
Decontamination System
(LIDS)

Additional CST Vehicles



F-450 Survey Trucks



F-450 Logistics/Decon Truck



Polaris Ranger

Personal Protective Equipment



Level A Kappler



Class 2 Lion Suit



Level B DuPont



Level C Saratoga



Draeger SCBA



Draeger BG4



M40/M53 Protective Mask

Equipment: *Chemical*



M8/M9 Paper



M256 Kit



Draeger CDS Kits



LCD



JCAD



MultiRAE Pro



MultiRAE



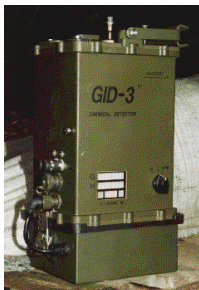
First Defender



TruDefender



Improved Chemical Agent Monitor (ICAM)



M22 ACADA



AreaRAE



HazMat ID



GasID



Hapsite

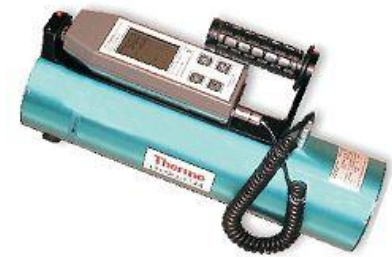
Equipment: *Radiological*



Micro-Detective HX



IndentiFINDER



FH 40 NBR



AN/PDR-77



AN/VDR-2 RADIAC



AN/UDR-13



Inspector+

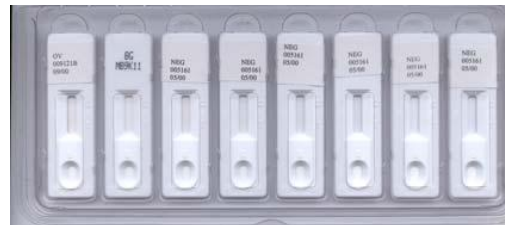
Equipment: *Biological*



SASS 3100 + SASS 3010



BioCapture 550 and 650



Hand Held Assays

Sampling

- Solid, liquid, bio, environmental samples
- Air/vapor samples (Tedlar bags)
- Radiological spectra
- FBI, DPH standards



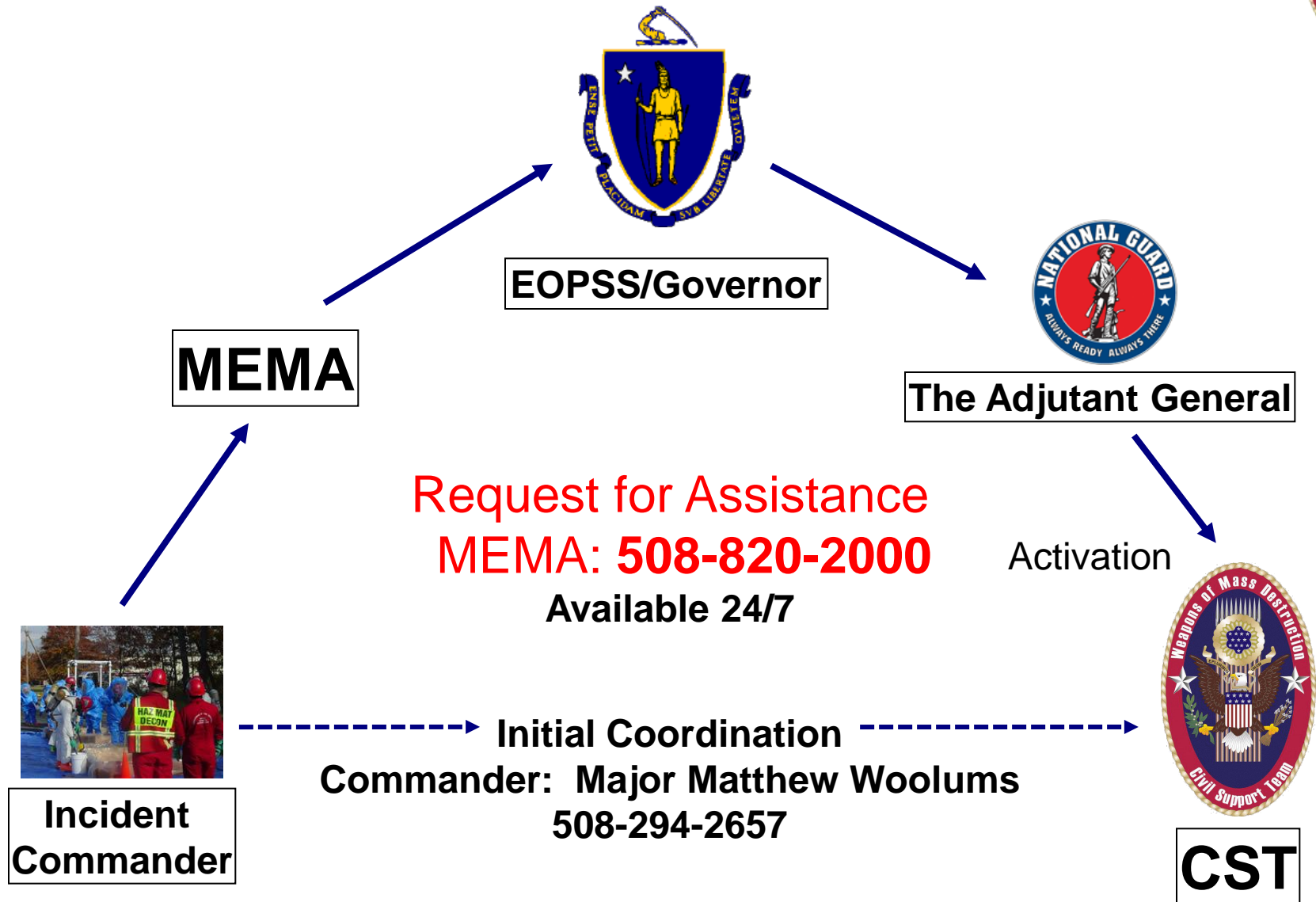
Analytical Laboratory System (ALS)



- Class III Containment Glove Box
- GC/MS
- Fluorescent Microscope
- Fourier Transform Infrared Spectrometry (FTIR)
- Immunoassay Tickets
- Polymerase Chain Reaction (PCR)
- Electro-chem-illuminescence Detector (M1M)



How to Request the 1st CST



1st Civil Support Team (Weapons of Mass Destruction)

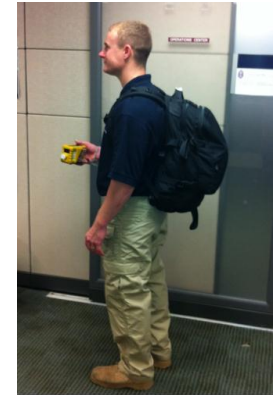


Commander:	Maj Matthew Woolums	508-294-2657
Deputy Commander:	MAJ Jeff Winn	508-294-2689
1SG:	1SG Gary Mauk	508-328-2195
Operations:	CPT Veronica Mack	508-294-2722
Medical:	Maj Christina Sampsonis	508-294-2741
Analytical:	1LT Caley Heckman	508-328-0186
Survey Team:	CPT Johnny Kula	508-328-2176



Questions?

Mobile Field Kit (MFK)



- Transfer sensor data
- Video/image
- Text
- Logging
- GPS tracking
- Overhead imagery