46th Civil Support Team, Alabama National Guard: Weapons of Mass Destruction

Integration for Hazardous Response Teams Conference May 15, 2012

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

Faculty

LTC Rick Pelham Commander 46th Civil Support Team Alabama National Guard

CST Program Purpose

 To provide military unique capabilities, expertise and technologies to assist State Governors (to) prepare for and respond to CBRNE incidents.
 Team must complement and enhance (not duplicate) State CBRNE response capabilities."

- DoD Program Review, Sep 01

Agenda

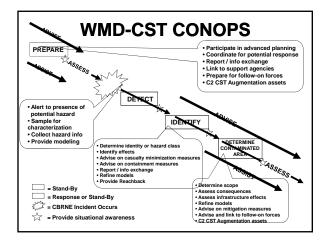
- Mission
- Command and control
- Employment / RMP
- Team overview / training
- Capabilities
- Contact procedures

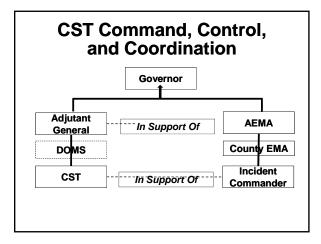
Mission

- Support civil authorities at a domestic CBRNE incident site by identifying CBRNE agents/substances
- Assess current and projected consequences
- Advise on response measures, and
- Assist with appropriate requests for state support

Key Characteristics

- Must be certified by Secretary of Defense (6 March 2003)
- Unique to National Guard
- Main role is support to Governor and Incident Commander
- Sophisticated Reach-back System
- Interoperable with Civil Responders





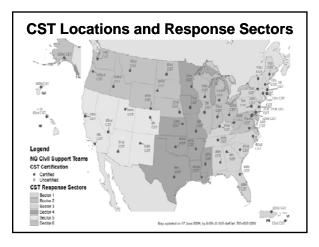
_	mployment Status		
<	STATE State Active Duty	Title 32	FEDERAL Title 10
Command and Control	Governor	Governor*	President
Area of operation	IAW State Law	CONUS	Worldwide
Pay	State**	Federal	Federal
Mission types	IAW State Law (riot control, emergency response, etc.)	Training and other federally authorized	Overseas training and as assigned after mobilization
Discipline	State Military Code	State Military Code	UCMJ
Support Law Enforcement	Yes	Yes	Limited by Posse Comitatus

NGB CST Response Management Plan

- Established to support the National Response Framework
- Organizes CSTs on a short recall status to deploy anywhere in the U.S.

NGB CST Response Management Plan

- In response to a suspected, threatened, or actual terrorist attack
 - -NDAA of 2007 changed CST mission response to all hazards response
- Coverage across the nation
 - -Organized into six regions



Response Status

- Gold: Immediate Response
 - Deployment of the advanced party of the CST NLT N+ 90
 - Deployment of the main body NLT N + 3

Response Status

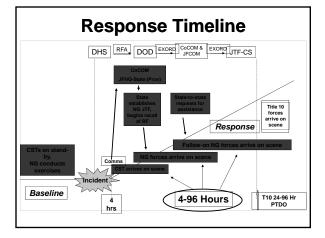
- Silver: Reinforcing Response
 - Unit focuses on preparing for possible priority response missions outside their home state
 - Main body must deploy to incident site NLT N+24 hours

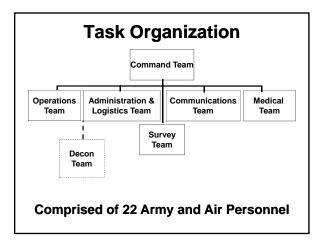
Response Status

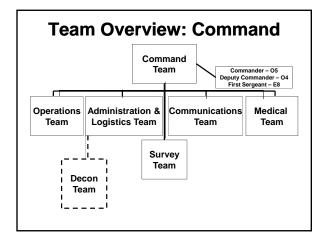
- Bronze: Stand-by Response
 - Units focus on areas such as training requirements and personal leave
 - Main body must deploy to incident site NLT N+72 hours

Response Status

- Black: No Response
 - Unit is in a non-mission capable status
- N=Official Time of Notification







Command Responsibilities

- Interface with external agencies and organizations central to the accomplishment of the CST Mission
- Anticipates and plans for unique challenges of operating in a CBRNE environment

Command Responsibilities

- Receives the Incident Commander's (IC) objectives and obtains updated situation information
- Advises the IC on CST assets, capabilities, and limitations

Command Responsibilities

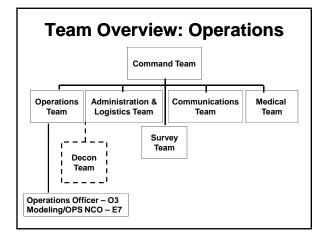
- Assists the IC in integrating the CST into the overall incident response
- Provides updates to the IC as critical information becomes available

Advanced Liaison Vehicle (ADVON)

- INMARSAT Phone (non secure)
- VoIP telephone on site
- Wireless Internet on site
- Iridium secure satellite telephone
- Internet/fax/phone capable enroute
- Incident Commander's radio interface (ICRI)

Advanced Liaison Vehicle (ADVON)

- XTL-5000 mobile radio
- On board print/fax/scan capability
- Point-to-Point microwave communications



Operations Capabilities

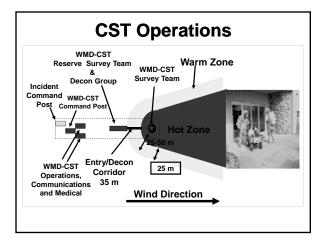
- Establishes the CST footprint at incident site based on Commander's guidance
- Develops and maintains a common operating picture of both civil and military forces conducting operations

Operations Capabilities

- Prepares initial hazard model assessment and updates hazard models as weather conditions and additional incident information as it becomes available
- Coordinates the actions of the other CST sections to insure CST Commander's and IC's objectives are met

Operations Capabilities

• Maintains the reach-back capability to off-site subject matter experts



Modeling Capabilities

- Provide program projected plumes for hazard areas
- Advise the Incident Commander on courses of action involving critical infrastructure within the hazard area

Modeling Capabilities

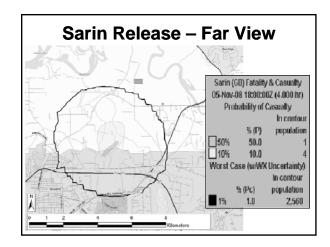
- Current modeling software utilized:
 - -HPAC
 - -CATS
 - -PEAK
 - -Cameo/Aloha
- Reach-back available to the Defense Threat Reduction Agency

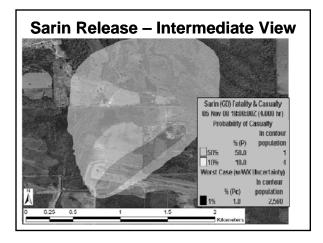
Sarin Release – Facts

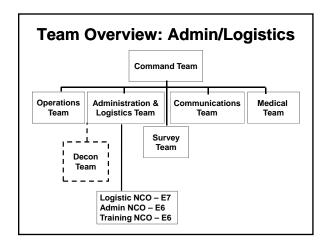
- Location: Montgomery, AL 32.43076
 N / 86.25233 W
- Strike time: 1400Z 05 Nov 2008
- Type: Sarin
- Amount: 5 lbs
- Strike weapon: Ground spray

Sarin Release – Facts

- Weather: wind from south with a speed of 3 mph, 70 F, 53% humidity, 0% precipitation
- Model: HPAC 5.0 SP1
- Static Population Estimates: Land-Scan 2007





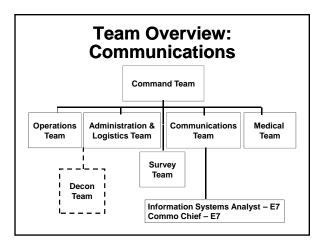


Logistics Capabilities

- Coordinates for rapid replenishment of consumed equipment during deployment
- Provides a command with status of consumed equipment as needed
- Assists with technical DECON of personnel as needed

Decontamination Capabilities

- Provide technical DECON for CST members and attached personnel
- Advise IC on mass casualty DECON
- Equipment DECON
- Man-Down and emergency DECON



Unified Command Suite

- Radios
 - UHF/VHF Transceiver (135-178 MHz, 403-470 MHz, 470-520 MHz, and 851-868 MHz)
 - -SATCOM, INMARSAT-B (Civilian)
- HF SSB
 - -Team to Military Comms

Unified Command Suite

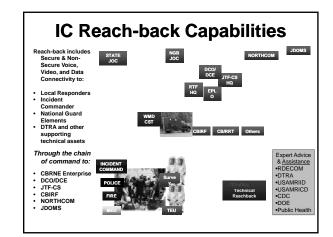
- Phones
 - -DSN/commercial
- Data
 - -NIPRNET, SIPRNET
- Video
 - -Collaborative video conferencing tools
- On board 15 kW generator

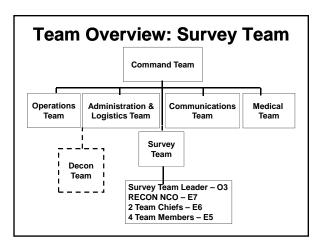
Unified Command Suite

- Multi-band frequency scanners
- Military VHF/UHF/UHF
- SATCOM radios (30-512 MHz)
- LAN for laptop computers
- ACU 1000
 - Crossband up to 10 VHF/UHF frequencies

Unified Command Suite

- Satellite television
- Point-to-point microwave communications





Survey Team Capabilities

- Instrumental detection abilities
- Crime scene preservation
- Evidence and sample collection
- Identification of chemical, and biological warfare agents
- Identification of toxic industrial chemicals and toxic industrial materials (over 160,000)

Survey Team Capabilities

- Presumptive identification of narcotics and explosives
- Identification of gamma radiation isotopes
- Detection of neutron, alpha, beta, and x-ray radiation

Survey Team Capabilities

- Area monitoring and particulate sampling capabilities
 - -Rad, Chem, and Bio

Survey Team Capabilities

- Extended downrange operations in all protective levels
- Photographic reconnaissance
- · Limited rescue capabilities
- Hazardous area reconnaissance
- Modified decontamination system
- Mitigation and hazard containment support and advice

Survey Equipment

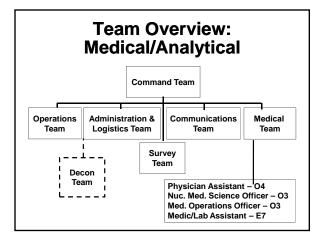
- HAPSITE
 - Gas Chromatograph/ Mass Spectrometer
- Gamma Spectrometer
- Draeger Colormetric Tubes
- Multi Rae Combustible Gas Ind.
- SensIR

Survey Equipment

- Area Rae with Gamma Monitor
- RADPAK
- BT 650
- Ahura First Defender
- Ahura TruDefender
- M256 Kit

Survey Equipment

- Radiac Meters
 - -UDR13, AN/VDR2, AN/PDR77
- Joint Chemical Agent Detector (JCAD)
- Improved Chemical Agent Monitor (ICAM)
- Field Bio Immunoassay Tickets (HHAs)



Medical Capabilities

- Medical
 - -On-scene medical support
 - Medical hazard analysis
 - -Casualty management and tracking
 - Medical treatment recommendations

Medical Capabilities

- Analytical
 - -On-scene analysis
 - Chemical and biological agents, toxic industrial chemicals/materials
 - -Hazard Characterization
 - PPE, decon, and mitigation advice

Medical Capabilities

- On-Scene Medical Support
 - -CST and attached personnel
 - -Formulary and antidotes
- Medical Hazard Analysis
 - Signs and symptoms, requested lab work

Medical Capabilities

- Casualty Management and Tracking
 - Direct patient tracking via liaison with Alabama Department of Public Health (ADPH)
 - Quarantine/isolation
 recommendations

Medical Capabilities

- Medical Treatment Recommendations
 - Specific to on-scene agents and provided directly to treatment facility and ADPH

Analytical Capabilities

- On-Scene Analysis (Class III Containment Glovebox)
 - -Chemical
 - GC/MS Liquid/Vapor and Solid Phase Micro-Extraction (SPME) analysis
 - FTIR >32,000 spectra

Analytical Capabilities

- Microscopy
- RAID-M IMS Detector
- Narcotics Test Kit
- HAZCAT Kit
- M-256A1 Kit

Analytical Capabilities

- -Biological
 - DoD Hand Held Assay (HHA)
 - -17 biological and toxin antibody based assay tests
 - Polymerase Chain Reaction (PCR)
 - -DNA analysis of biological WMD agents and foodborne pathogens and toxins

Analytical Capabilities

- Microscopy
- M1M Bioanalyzer
 - -DNA analysis of biological WMD agents and foodborne pathogens and toxins

Analytical Capabilities

- Hazard characterization
 - -PPE and decon recommendations
 - Agent-specific recommendations
 - -Sample prioritization and protocols
 - -Mitigation advice

Analytical Capabilities

- -Reach-back Capabilities
 - Defense Threat Reduction Agency (DTRA)
 - Smiths Detection
 - McCrone

CST Training

- Individual/Institutional
 - -Civil Support Skills Course, Ft. Leonard Wood, Missouri
 - Position-specific specialized training

CST Training

- Collective
 - -DHS exercises
 - -Multi-CST exercises
 - -ARNORTH exercises
 - -State/Local exercises
- Average specialized individual training = 900 hours

Individual Training

- Civil Support Skills Course Provides initial HAZMAT Tech Certification
- ICS 100, 200, 300, 400, 700, and 800
- CWA/BWA Production
- Applied Radiological Response Techniques
- Technical Escort

Individual Training

- Nuclear Radiation Incident
 Management
- Medical Effects of Ionizing Radiation
- Confined Space/Collapsed Structure Course
- Advance GC/MS Training

NGB Training Guidance

- Collective training management
 - CSTs are post mobilization, forward deployed units and cannot be partially trained

NGB Training Guidance

- Training requirements
 - CSTs will participate in a minimum of twelve training exercises per year for a total duration of 60 days to include a maritime event
 - Will conduct at least 1 multi-CST exercise annually

NGB Training Guidance

- Ensure that medical personnel meet professional certification requirements
- Training should emphasize
 - At least one externally supported full scale collective training event each six months
 - -Interoperability with other CSTs

CST Response Missions

- Multiple white powder responses
 - Most recently at the Senate / Congressmen Offices (Jan 2010)

CST Response Missions

- Analytical support to Montgomery Police Department
- Analytical support to FBI Mobile Field Office WMD Coordinator
- Analytical support to Birmingham Field Office WMD Coordinator

Emergency Contact Procedures

Emergency First Responder Agency Local/County Emergency Management Agency State Emergency Management Agency (205) 280-2200 The Adjutant General of Alabama (through Directorate of Military Support) (334) 213-7753 46th WMD C ST Notification and Deployment (334) 954-3400

CST Primary Contacts

Commander, LTC Rick Pelham (334) 206-2460 Southern Linc: 1*77*4993 rick.pelham@us.army.mil

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