

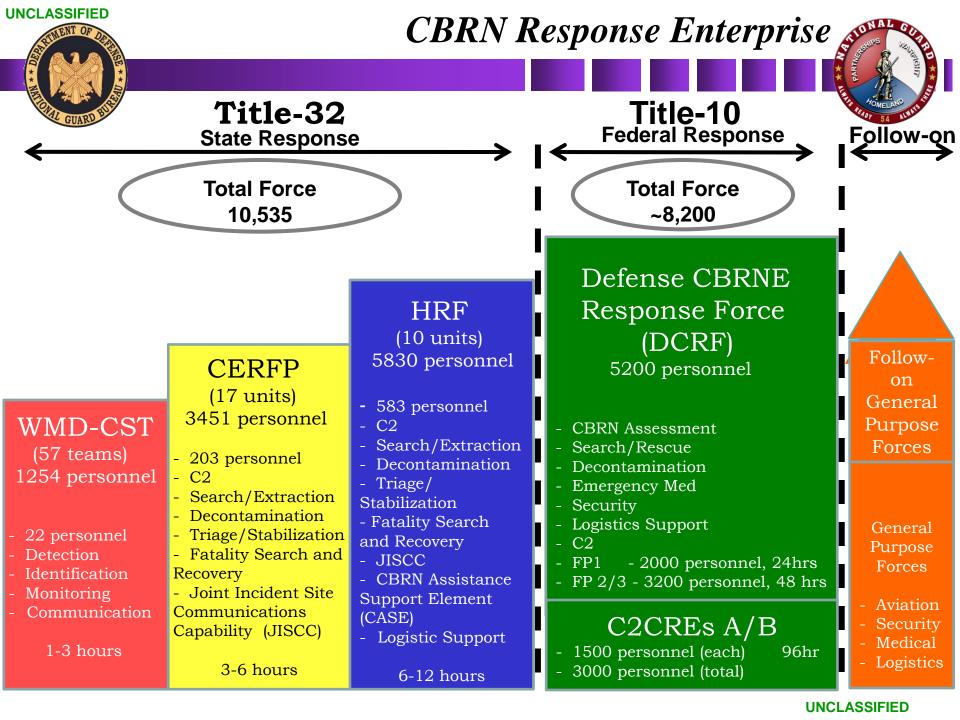


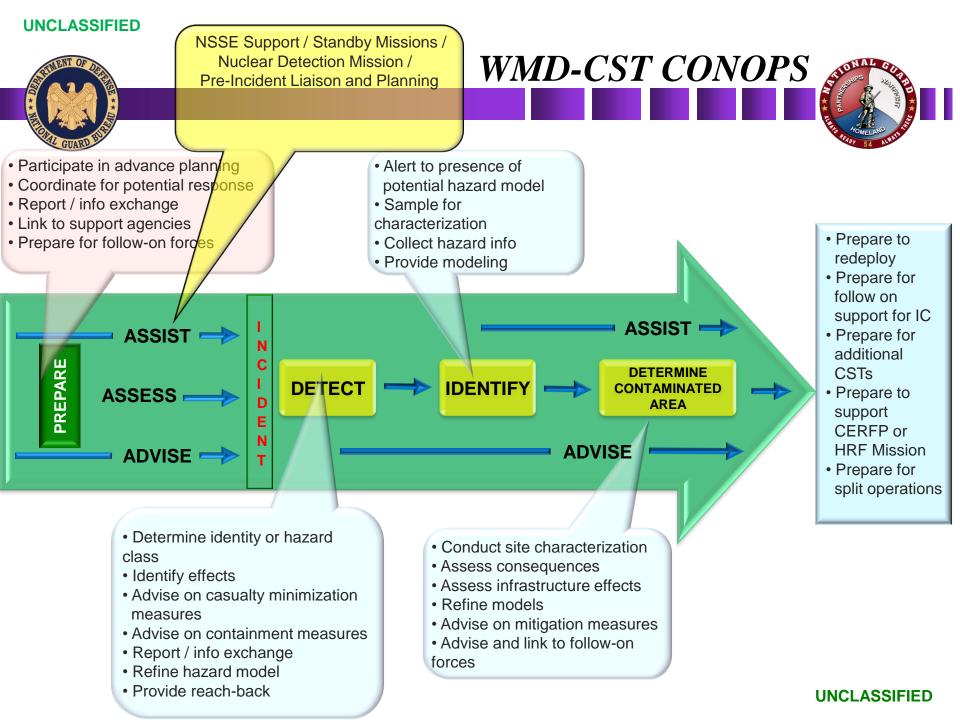
National Guard Chemical, Biological, Radiological and Nuclear (CBRN) Response Enterprise (NG CRE)

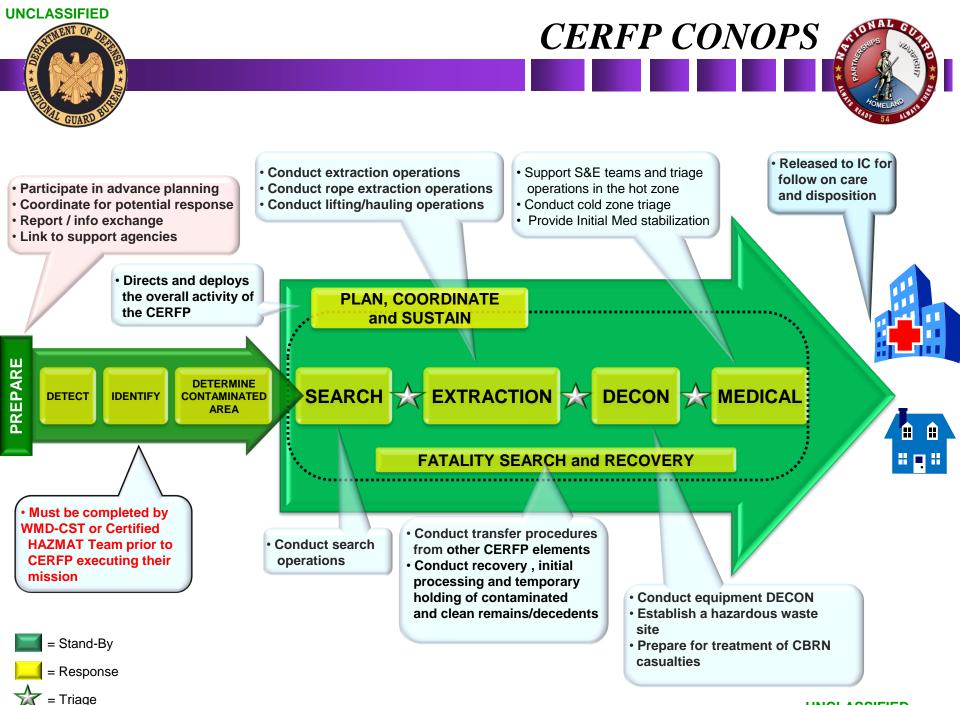
Heinrich "Henry" Reyes Division Chief, CWMD 703-607-5307 heinrich.j.reyes.civ@mail.mil

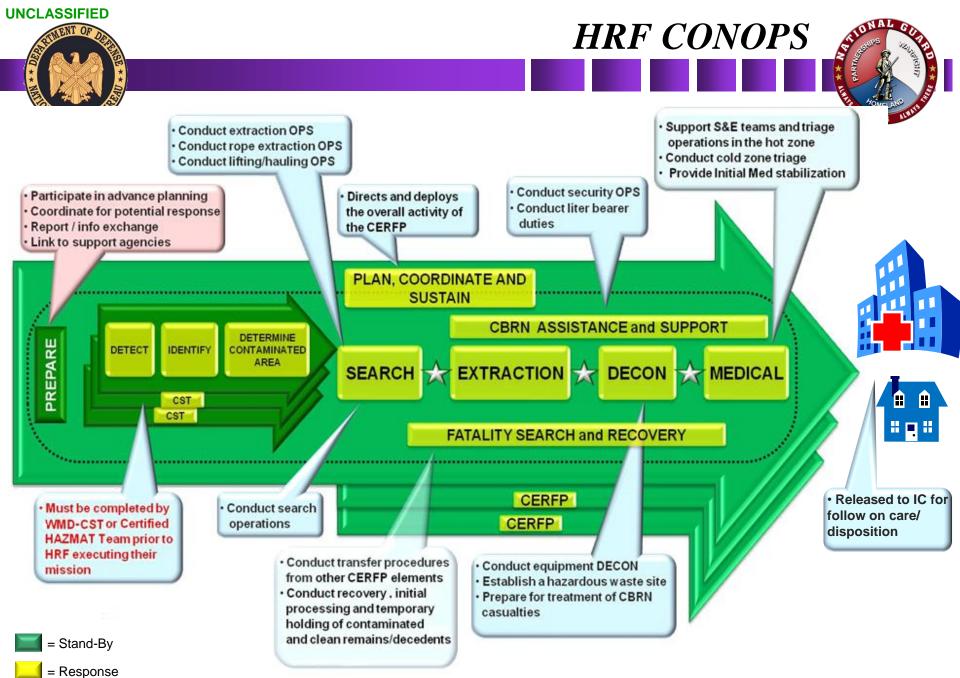


Provide an overview of the National Guard (NG) Chemical, Biological, Radiological, and Nuclear (CBRN) Response Enterprise (CRE) capabilities.

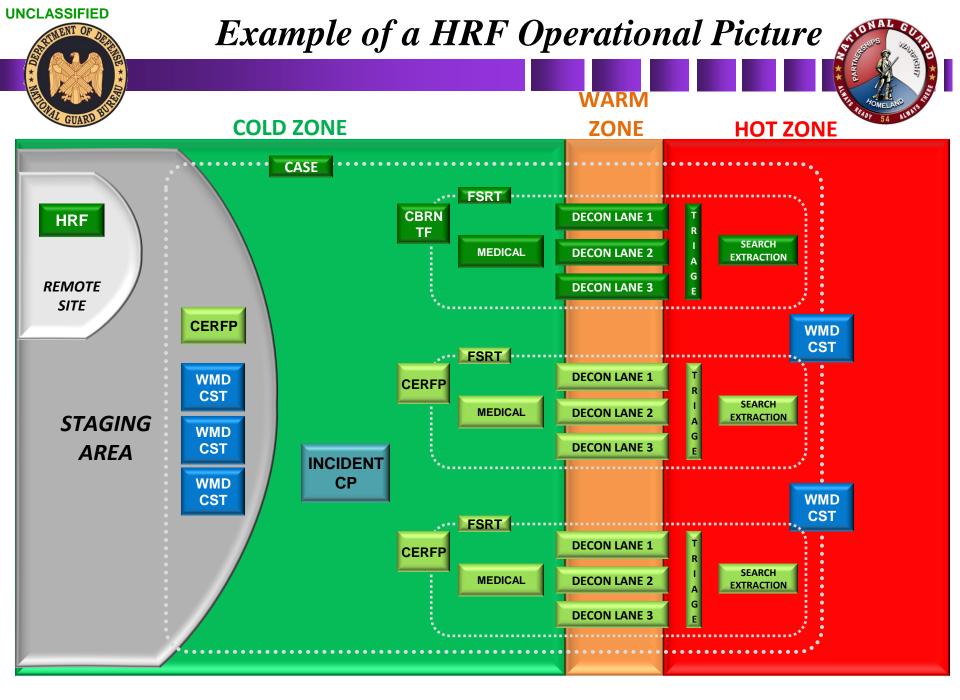








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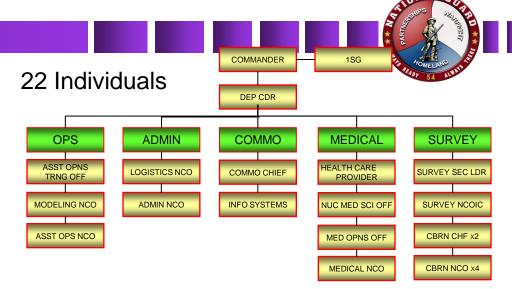


<u>MISSION</u>: Support civil authorities at a domestic CBRNE incident site by <u>identifying CBRNE agents</u> and substances, <u>assessing</u> current and projected consequences, <u>advising</u> on response measures, and <u>assisting</u> with appropriate requests for additional support.

NDAA FY07 expanded the mission set to include responses to intentional or unintentional releases of <u>Toxic Industrial Chemicals (TICs) and Materials</u> (<u>TIMs</u>), and <u>natural or man-made disasters</u> in the United States that result, or could result, in catastrophic loss of life or property.

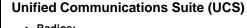
WMD-CST KEY CHARACTERISTICS:

- Established in Statute (10 USC 12310)
- 57 WMD-CSTs certified by the SECDEF
- Operates under control of the Governor
- Operate only in US and Territories
- 22 Full-time, T32 AGR Personnel, Jointly manned w/ ARNG and ANG personnel
- 80% Non-standard equipment
- Sophisticated Reach back System
- Interoperable with First Responders
- All WMD-CST personnel are HAZMAT TECH certified



WMD-CST Overview





- Radios:
 - UHF/VHF
 - SATCOM
- INMARSAT
- Phones:
- DSN
- Commercial
- Data:
 - NIPRNET
 - SIPRNET
- Video

Analytical Laboratory System (ALS)

- Refrigerator
 - Glove Box
 - GC/MS
 - Immunoassay Tickets
 - Gamma Spectrometer
 - Fluorescent Microscope
 - PCR
 - FTIR
 - Digital transmission link to
 UCS
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Detection and Monitoring Equipment

Chemical Capabilities

Point Detection

- Multi Rae
- GCMS
- Colorimetric tubes
- RAID-M

Area Monitoring

- Area RAE
- FTIR / RAMAN Detection Systems
- First Defender Raman non-invasive
- detection
- HazmatID FTIR liquid/solid identification

Sampling

- Certified clean containers
- Uniquely numbered sample containers
- Sample Types
 - Air IBAC
 - Liquid
 - Wipe/Swab
 - Sludge
 - Vegetation
 - Powder/Crystalline





Radiological Capabilities (alpha, beta, gamma, neutron, x-ray)

- ANUDR-13 (UDR 14s with DRSKO)
- ANPDR-77,
- ANVDR-2
- Area RAE
- **ORTEC, Micro Detector**
- AN PDR 75A
- Gamma Spectrometer
- MPDS, fielding begins FY 17
- Reach back (DOE, DNDO, DTRA)

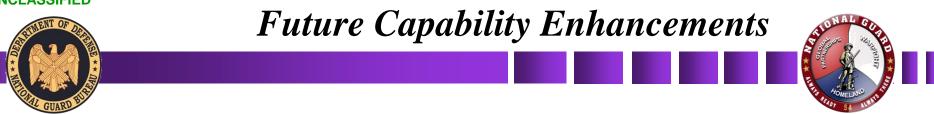






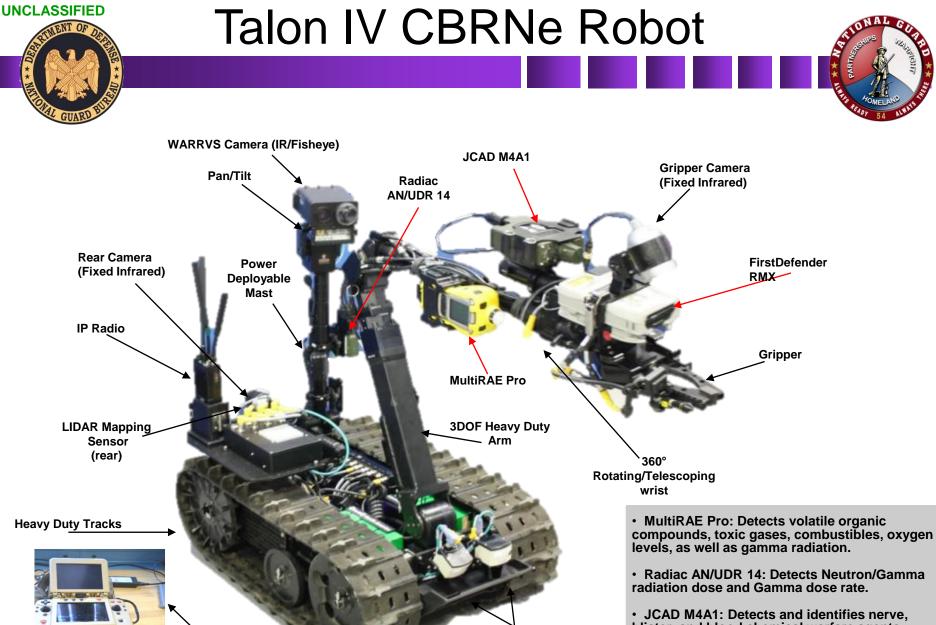


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- Talon IV CBRNe Robot (Currently conducting Robot NET with WMD-CSTs)
- Physiological Monitoring (Fielding and NET for 12 WMD -CSTs will be completed by 4Q, FY17)
- National Guard CBRN Response Enterprise Information Management System (NG CIMS) (System fielding to WMD-CSTs - 2Q, FY18: CERFP & HRF 3Q, FY18)

NGB leveraging Joint Program Executive Office (JPEO) Joint CBRN Advanced Capability Sets (JCACS) Enhanced Capability Demonstrations (ECD) program to evaluate technologies.



LIDAR Mapping Sensors

• JCAD M4A1: Detects and identifies nerve, blister, and blood chemical warfare agents.

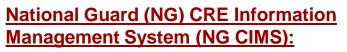
 FirstDefender RMX: Identifies unknown liquid chemicals and solid compounds.

Tactical Robot Controller

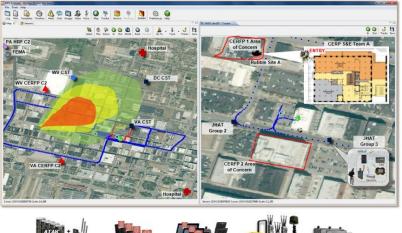




NG CIMS Overview



- NGB system of record to provide WMD-CSTs, CERFPs, and HRFs a standardized tactical-level COP/SA tool for managing mission operations and information
- Entails a system/suite of software applications, enduser devices (EUDs), and communications support
- Enables information sharing between NG CRE forces and externally with other DoD and Civilian response partners





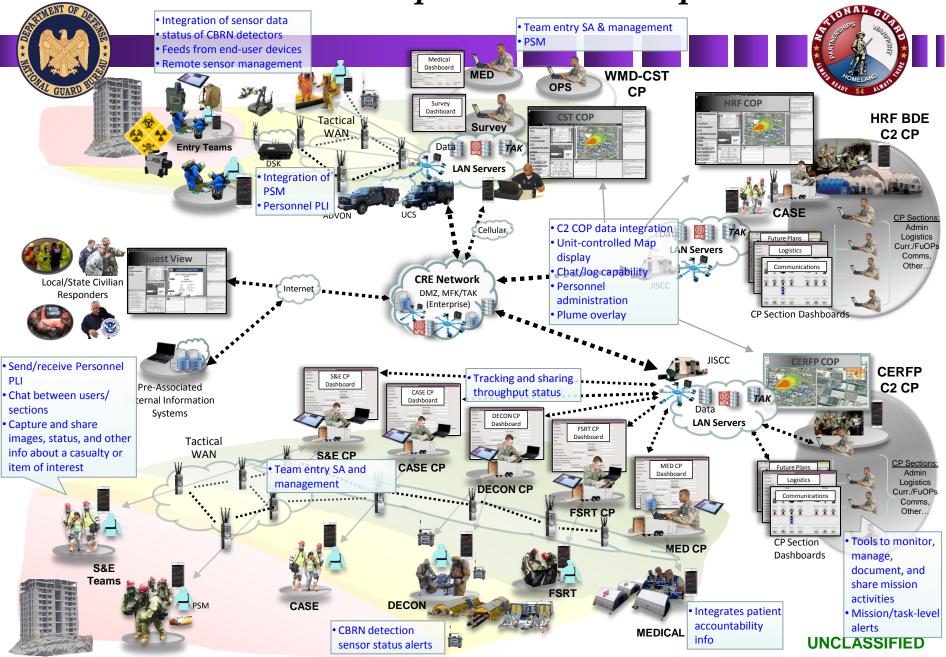


NG CIMS KEY CAPABILITES & CHARACTERISTICS:

- Tactical COP display and management
- Integration of CBRN detection sensor and EUD information
- Mission-area Information management support
- Integrates with NG CRE organic communications assets
- Integrates position location information of personnel and CBRN sensor systems operating in the warm and hot zones
- Integrates multiple CBRN sensors located throughout a broad geographic area to provide real-time detection of potential CBRN threats
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NG CIMS Equipment

NG CIMS Operational Concept





NG CRE Mission Support

Examples of missions supported

- Boston Marathon Bombing Response (MA CST w/ Augmented personnel)
- Washington, Oso Mud Slide (Elements of HRF and CERFPs)
- Papal Visit (multiple CSTs and CERFPs, and HRF)
- Presidential Inauguration (multiple CSTs, and CERFPs (2), HRF (1)
- State of the Union (CSTs)
- Republican and Democratic National Convention (CSTs)
- Super Bowl (CSTs and HRF)
- Elk River Water Contamination (Multiple CSTs)
- Hurricane Mathew (Multiple CSTs, HRF and CERFP)
- Other various NSSE and Natural Disaster events

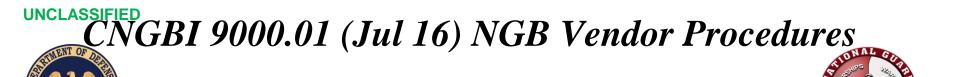
Response partners supported

- Local Civilian Incident Commander (IC)
- USSS, FBI, DOE, DHS, USCG, FEMA, HHS, CDC, LRN



- Mass Casualty Dry Decontamination capability
- Treatment of Decontamination Runoff to reduce or eliminate waste water, possible recycle of water for further decontamination.
- Patient/Evacuee Tracking System- Identify a management system capable of providing Identification, Tracking, Regulation, Information sharing and Interoperability with NG CIMS and Inter-agency partners (i.e.: HHS, FEMA, DHS)
- Low cost Class 4 radiological/ biological PPE.

NGB leveraging Joint Program Executive Office (JPEO) Joint CBRN Advanced Capability Sets (JCACS) Enhanced Capability Demonstrations (ECD) program to evaluate technologies.



- All points of contact responsible for contractor visit, will complete the Contractor Visit Data Sheet and Briefing Agreement
- POC will coordinate with the NGB Principal Assistant Responsible for Contracting (NGB-OPARC), the NGB Chief Counsel (NGB-JA), and the Office of Small Business Programs (NGB-SBP) to review information on the visit and attend the representation. Small business phone is 703/601-6765
- The Sponsor Lead:

will work with the Contractor to schedule the demonstration, product display, or briefing, and coordinate logistics, security, and information technology requirements.

does not have the authority to commit the U.S. Government to any agreements or contracts.

will not be authorized to make any contact with the Contractor's organization until the Lead has contracted NGB-AQ.





QUESTIONS?