

NC CHEMPACK Plan Overview

Tim Davis, PharmD

Medical Countermeasures Coordinator

North Carolina Public Health Preparedness and Response

NCEMA Fall Conference | October 2023

Objectives

- **Participants will be able to:**
 - Describe the purpose of the CHEMPACK Program
 - Understand the components of the state CHEMPACK Plan
 - Identify federal, state, and local roles and responsibilities
 - Know the CHEMPACK container(s) in closest proximity to your jurisdiction
 - Have awareness of the program's next steps and exercise schedule for local planning and training purposes

CHEMPACK Program: History and Purpose



CHEMPACK is a Medical Countermeasure (MCM)

WHAT ARE MCMS?

PREVENT, PROTECT AGAINST, TREAT OR DIAGNOSE DISEASES OR HEALTH EFFECTS CAUSED BY **CBRN** THREAT AGENTS



C CHEMICAL
B BIOLOGICAL
R RADIOLOGICAL
N NUCLEAR

& EMERGING INFECTIOUS DISEASES

EXAMPLES OF MCMS



BIOLOGIC PRODUCTS

- Vaccines
- Blood products
- Antibodies



DRUGS

- Antimicrobials
- Chemical threat antidotes
- Treatments for radiation injury



DEVICES

- Diagnostic tests
- Personal protective equipment (PPE)
 - Gloves
 - Respirators/certain masks
 - Gowns

CHEMPACK - part of the federal Strategic National Stockpile (SNS)

The SNS is a multi-billion-dollar cache of pharmaceuticals and medical supplies used to protect the public's health during an emergency that exceeds state and local resources or capabilities.

- Supports state and local response efforts
- NOT a first response mechanism
- Broad Scope
- Organized for scalable response
- FREE to public
- Typically requested by the state to the Centers for Disease Control and Prevention (CDC)
- History:
 - Program began in 1999 as National Pharmaceutical Stockpile
 - Previously managed by CDC's Division of Strategic National Stockpile (DSNS)

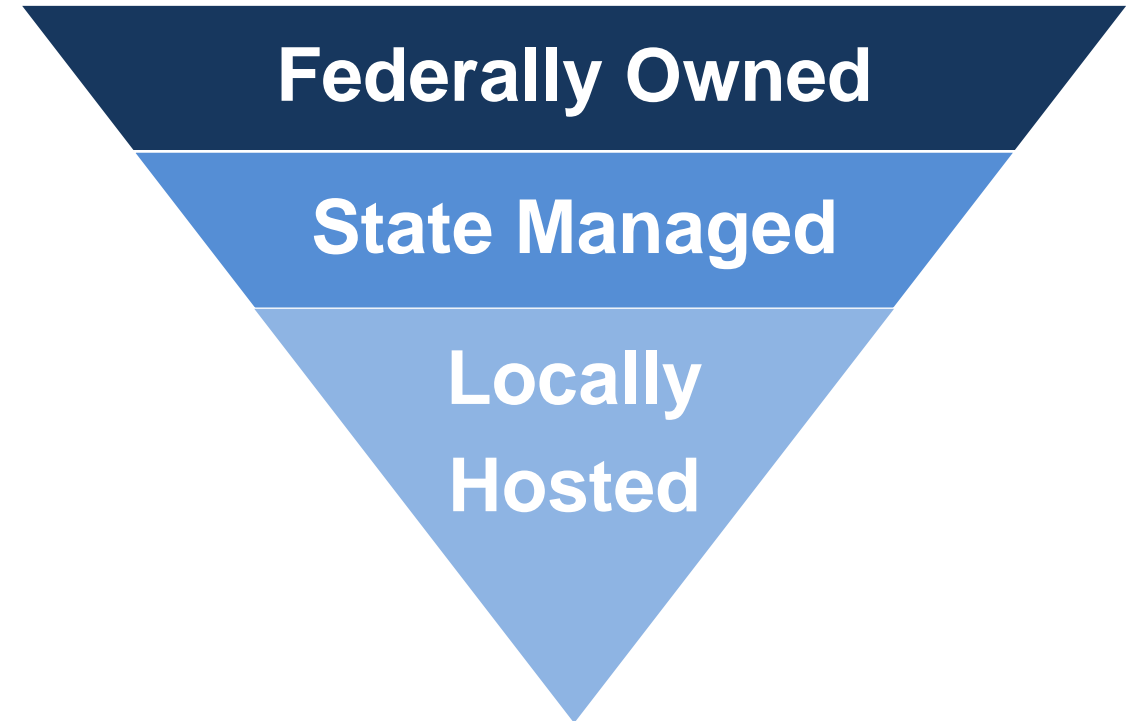


ADMINISTRATION FOR STRATEGIC PREPAREDNESS AND RESPONSE (ASPR), STRATEGIC NATIONAL STOCKPILE, [HTTPS://WWW.PHE.GOV/ABOUT/SNS/PAGES/DEFAULT.ASPX](https://www.phe.gov/about/sns/pages/default.aspx). Accessed 02/24/2023.

As of October 1, 2018, managed by the Office of the Administration for Strategic Preparedness and Response (ASPR)

What is a CHEMPACK

- Containers of nerve agent antidotes
- Staged in secure locations in local jurisdictions around the country
- Allow rapid response by state/local government to a chemical incident



CHEMPACK Program: Formulary and Locations



CHEMPACK Formulary – EMS Style Containers

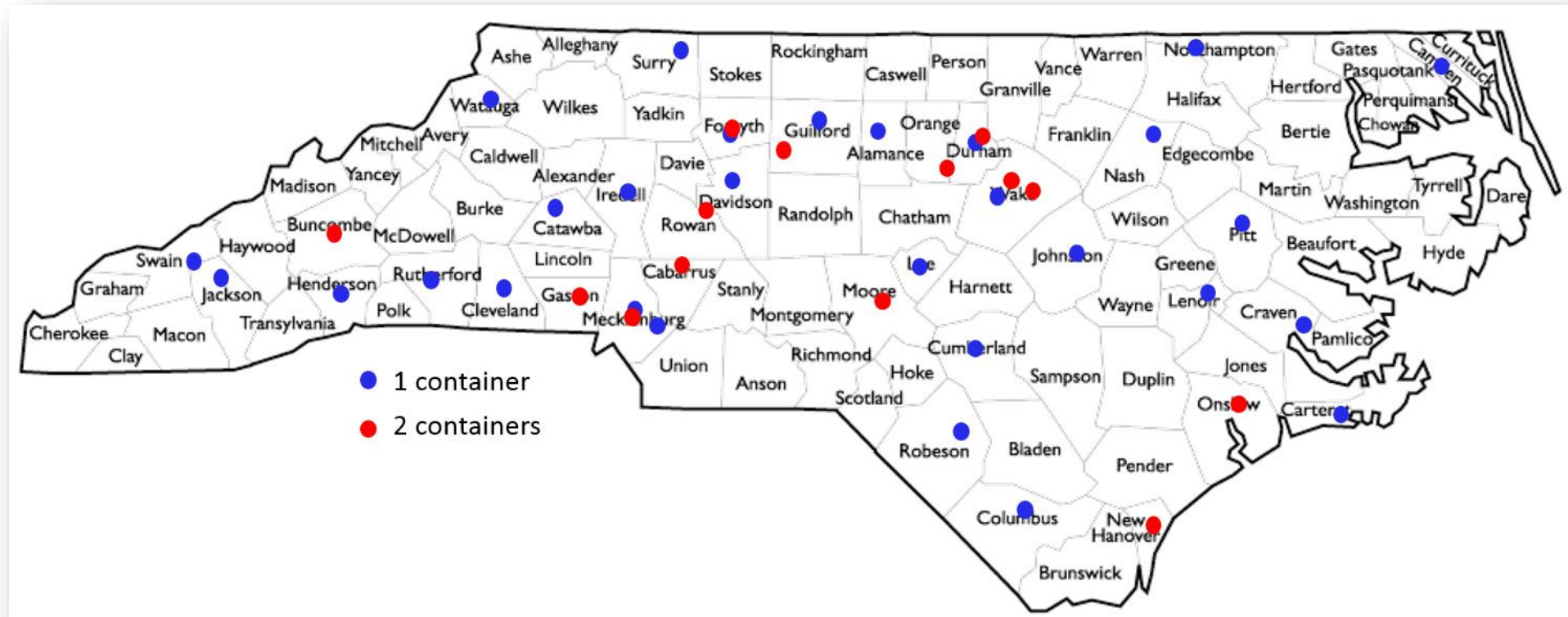


EMS Type CHEMPACK Container 454 Person Treatment Capacity			
Product	Cases	Units per case	Total Units
Mark 1 Auto-injector	5	240	1,200
-OR-			
ATNAA Auto-injector	6	200	1,200
-OR-			
Atropen 2mg Auto-injector	9	136	1,224
Pralidoxime 300mg Auto-injector	5	240	1,200
-AND-			
Diazepam 10mg Auto-injector	2	300	600
Seizalam (Midazolam) 5mg/ml vial 10ml	1	100	100
Atropen 0.5mg Auto-injector	1	225	225
Atropen 1mg Auto-injector	1	225	225
Atropine Sulfate 0.4mg/ml vial 20ml	1	100	100
Pralidoxime 1gm inj. 20ml	1	276	276
Sterile Water 20ml vials	1	150	150

[CHEMPACK information now included in NC OEMS WMD Nerve Agent Protocol](#)

NC CHEMPACK Locations

NC has 57 containers housed in 43 hospital locations

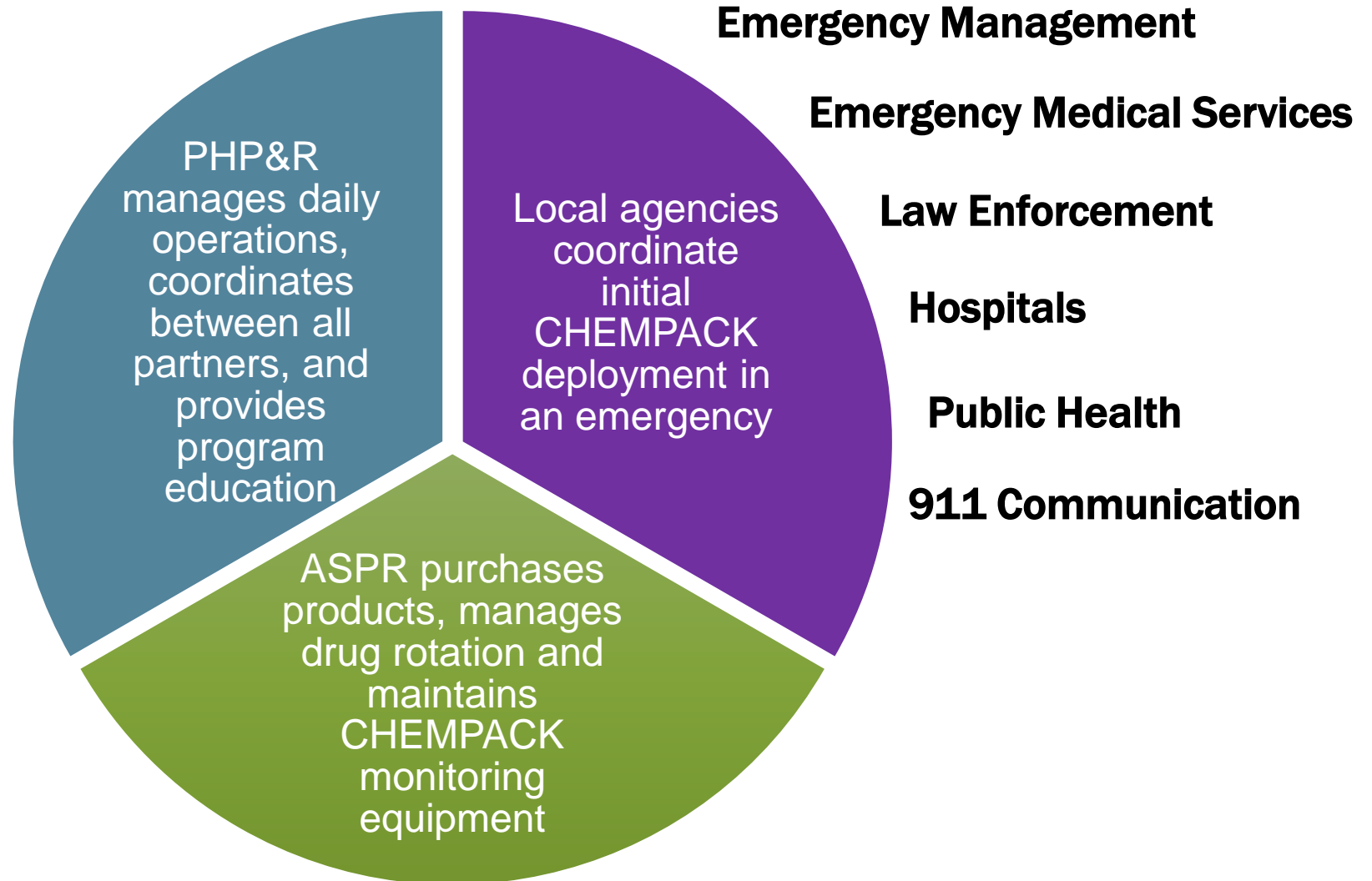


[NC Multi-Hazard Threat Database: Interactive Map with CHEMPACK Layer](#)

CHEMPACK Program: Responsibilities and State Plan



Overarching Responsibilities



Significant Local Jurisdiction Responsibilities

Host Facility (Hospital)	Non-host Facility (Hospital)	Local Emergency Management	Local Emergency Medical Services
<p>Maintain executed Memorandum of Agreement with PHP&R to serve as a CHEMPACK Host Facility.</p> <p>Designate a 24/7/365 Point of Contact and back-up Point of Contact to PHP&R responsible for CHEMPACK program administration and emergency activation.</p> <p>Provide container storage site in compliance with ASPR DSNS recommendations (see appendix B)</p> <p>Assume custody of CHEMPACK material and comply with applicable federal, state, and local storage and security regulations for controlled substances and medical material.</p> <p>Develop and maintain a plan/protocol for receiving, storing, and distributing CHEMPACK assets. For local CHEMPACK planning guidance, please see appendix K</p> <p>Agree to only break the container seal and use assets if it is considered necessary to save lives.</p>	<p>Maintain awareness of NC CHEMPACK program and understanding of the ability to initiate the request for deployment of CHEMPACK assets based on patient admissions consistent with nerve agent/organophosphate exposure likely to overwhelm existing resources.</p> <p>Develop and maintain a plan for CHEMPACK request from a nearby host facility (See appendix K for guidance)</p> <p>Participate in trainings, drills and exercises in coordination with NC PHP&R, as requested.</p>	<p>Maintain awareness of NC CHEMPACK program including current container locations.</p> <p>Develop and maintain a plan for CHEMPACK coordination at the local level.</p> <p>Following a CHEMPACK request, activate local emergency operations center to coordinate the response and recovery operations with other emergency support agencies as needed.</p> <p>Notify State Emergency Management of CHEMPACK request/deployment as soon as possible.</p> <p>If necessary, coordinate alternate CHEMPACK transportation with: PSAP On scene EMS agency Host facility Other transportation partners, as needed</p>	<p>Maintain awareness of NC CHEMPACK program and understanding of the ability to initiate the request for deployment of CHEMPACK assets to the on-scene commander based on scene size-up.</p> <p>Develop and maintain a plan/protocol for requesting, transporting, and administering CHEMPACK assets. For local CHEMPACK planning guidance, please see appendix K.</p> <p>When needed, provide transportation of CHEMPACK assets from Host facility to delivery location.</p> <p>Execute and maintain chain of custody when transporting or receiving CHEMPACK assets.</p> <p>Administer nerve agent antidotes during response in accordance with NC OEMS WMD-Nerve Agent Protocol.</p> <p>Following a deployment of CHEMPACK assets, coordinate with PHPR MCM Coordinator for instructions on disposal or return of CHEMPACK materiel.</p>

Triggers for Activation

Host facilities have the authority to breach the CHEMPACK container seal and use the products upon determination that an accidental or intentional nerve agent or organophosphate release has occurred and:

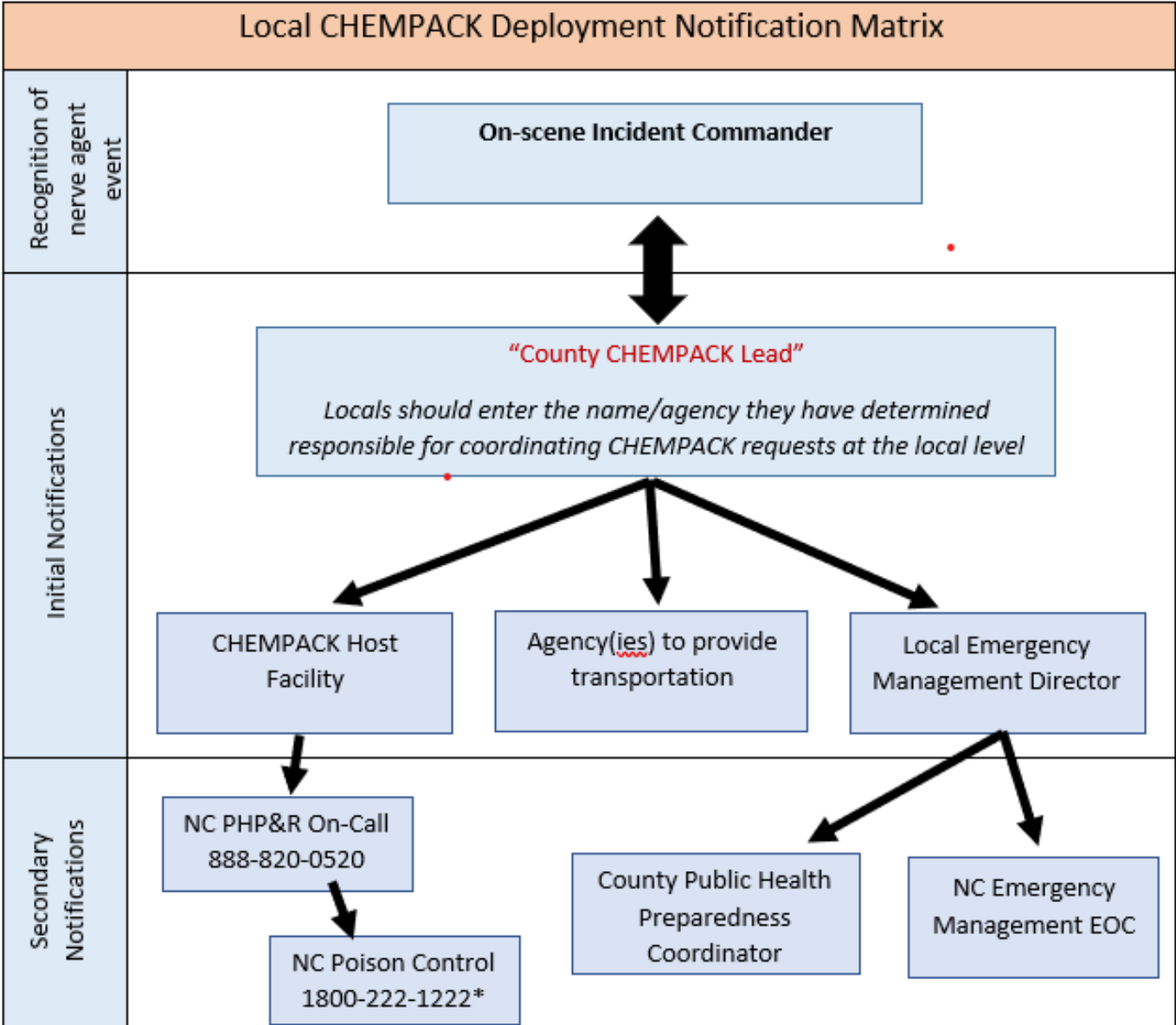
- Threatens the medical security of the community
- Puts multiple lives at risk
- Exceeds local emergency response capabilities
- The CHEMPACK materiel is medically necessary to save the lives of citizens of this state

A CHEMPACK container has never been opened for an emergency in NC!

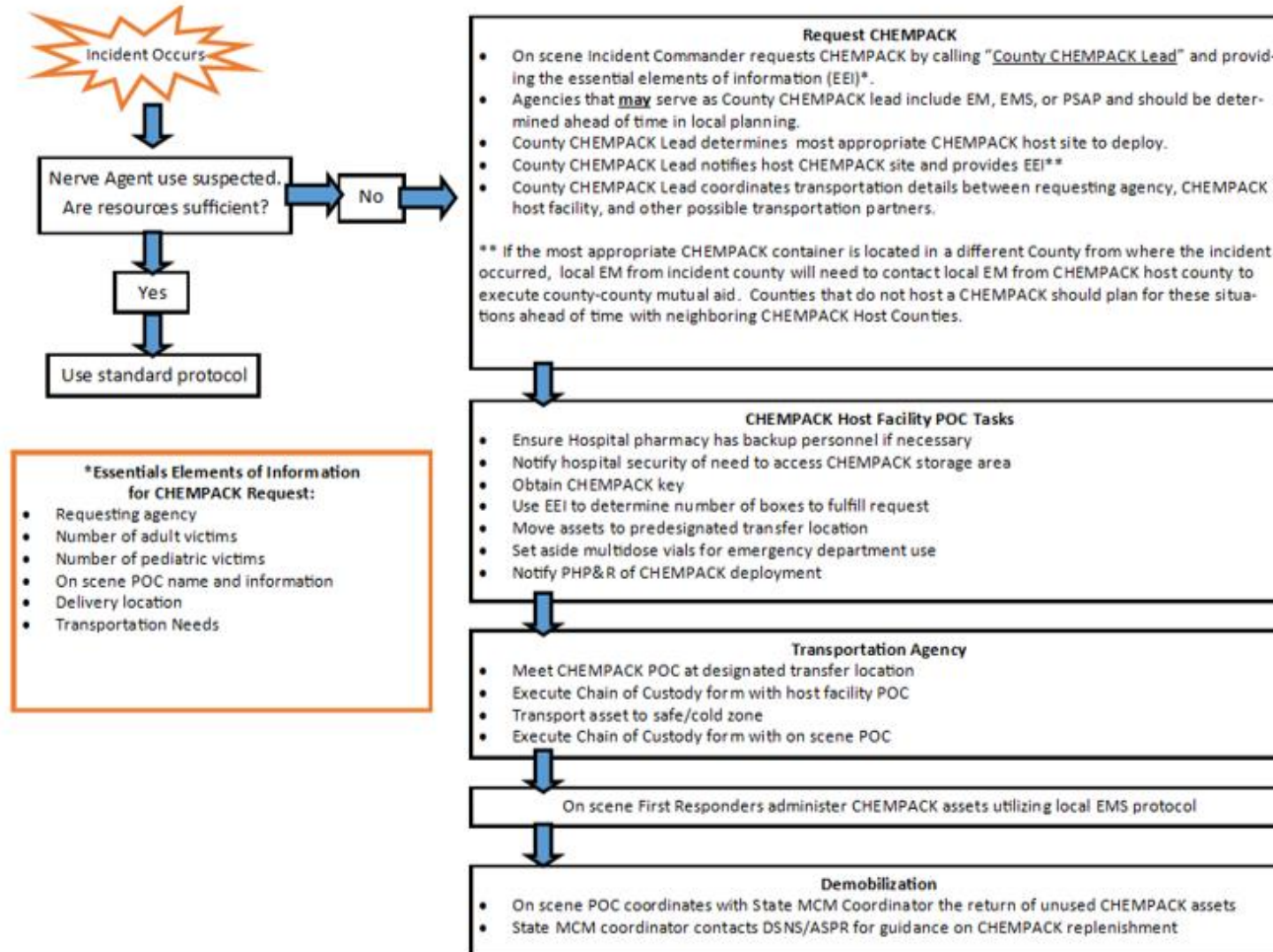
Who can request a CHEMPACK?



- Law enforcement (Sheriff, State Troopers, National Guard)
- State Medical Assistance Team
- Emergency Management Offices
- Fire Departments
- Public Health
- Hospitals
- Emergency Medical Services



CHEMPACK Initial Response Activities



Developing a Local CHEMPACK Plan

- Use the CHEMPACK Plan Guidance for Local Jurisdictions, Appendix K from the State of North Carolina CHEMPACK Plan
- Identify a local CHEMPACK Lead for response activities
- Identify Essential Elements of Information for CHEMPACK request
- Develop a plan with local agencies and partners that addresses notification, transportation, chain of custody, and recovery of assets
- Technical assistance from NC PHP&R

CHEMPACK Program: Next Steps and Exercise Schedule



PHP&R CHEMPACK Goals

- Increase awareness of CHEMPACK program
 - PSAP Manager Meetings
 - Annual NC Disaster Symposium
 - Annual NC EMS Expo
- Conduct exercises to validate state CHEMPACK plan
 - Tabletop Exercises
 - June 2023 – Greenville, NC
 - November 15th – Flat Rock, NC – **Registration open in TERMS!**
 - Third TTX is TBD for Central NC
 - Full-Scale Exercise, TBD
- Developing an online Continuing Education Course
 - Hospital Staff and First Responders

PHP&R Contact Information

Matthew Mason

Medical Logistician
Division of Public Health, Public Health
Preparedness and Response Branch
NC Department of Health and Human Services

Mobile: 919.605.0959

Matthew.Mason@dhhs.nc.gov

225 North McDowell Street
1902 Mail Service Center
Raleigh, NC 27699-1900

Tim Davis, PharmD, BCNP, PMP

Medical Countermeasures Coordinator
Division of Public Health, Public Health
Preparedness and Response Branch
[NC Department of Health and Human Services](#)

Mobile: 252-822-2477

tim.davis@dhhs.nc.gov

225 N. McDowell Street
1902 Mail Service Center
Raleigh, NC 27699-1900

PHP&R 24/7 On-Call: 1-888-820-0520 (For Public Health Emergencies ONLY)