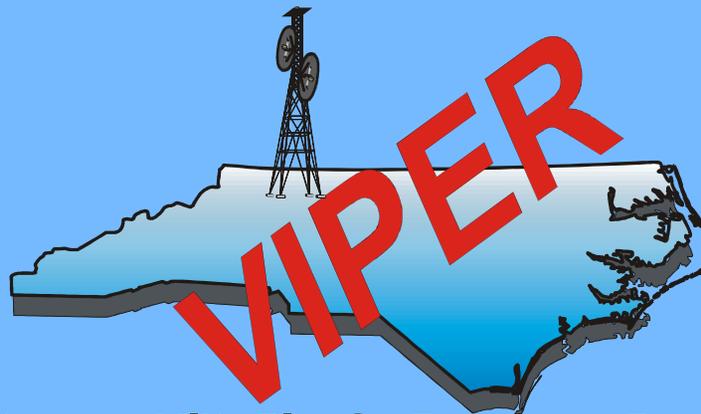


Voice Interoperability Plan for Emergency Responders





Voice Interoperability Plan for Emergency Responders

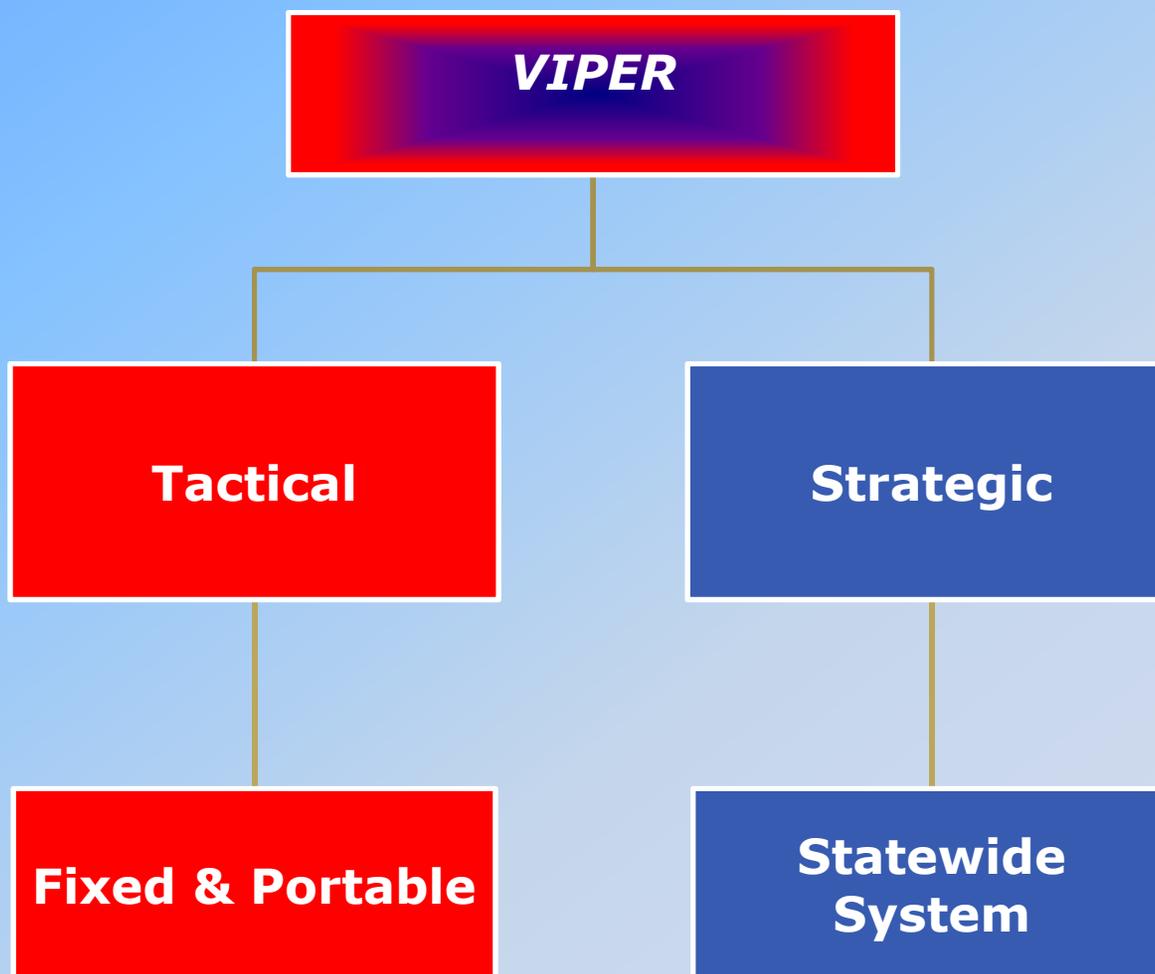
A CJIN Module





VIPER Strategic

Voice Interoperability Plan for Emergency Responders



Background

- ❑ Original CJIN Voice Trunking Network (VTN)- 1992
- ❑ Recommended in a CJIN Legislative Study by Price Waterhouse - 1995
- ❑ Re-Validated in a CJIN re-fresh study by the Gartner Group - 2002

Examples of Lack of Voice Interoperability

- ❑ American Eagle Commuter Crash at RDU 1994
- ❑ FBI Murrah Building, Oklahoma City 1995
- ❑ Hurricane Fran 1996
- ❑ Hurricane Floyd 1999
- ❑ Columbine High School 1999
- ❑ Twin Towers, New York City 2001

Strategic Solution

- ▣ Statewide 800 MHz trunked radio system available for *all emergency responders*
- ▣ Project 25 compliant
- ▣ Individual talk groups for agencies
- ▣ Mutual aid talk groups
- ▣ VIPER is the infrastructure
 - ▣ 95% in-street portable coverage based on a 3 watt portable radio
- ▣ Compatible with 29 other trunked voice systems throughout North Carolina

Partnerships

Progress Energy

Time Warner Cable

NC Electric Membership Co-ops

UNC-TV

NC Forestry Service

US Forestry Service

Dominion Power

Duke Energy

NC D.O.T.

NC Wildlife Resources Commission

Multiple Local Governments

Status to Date

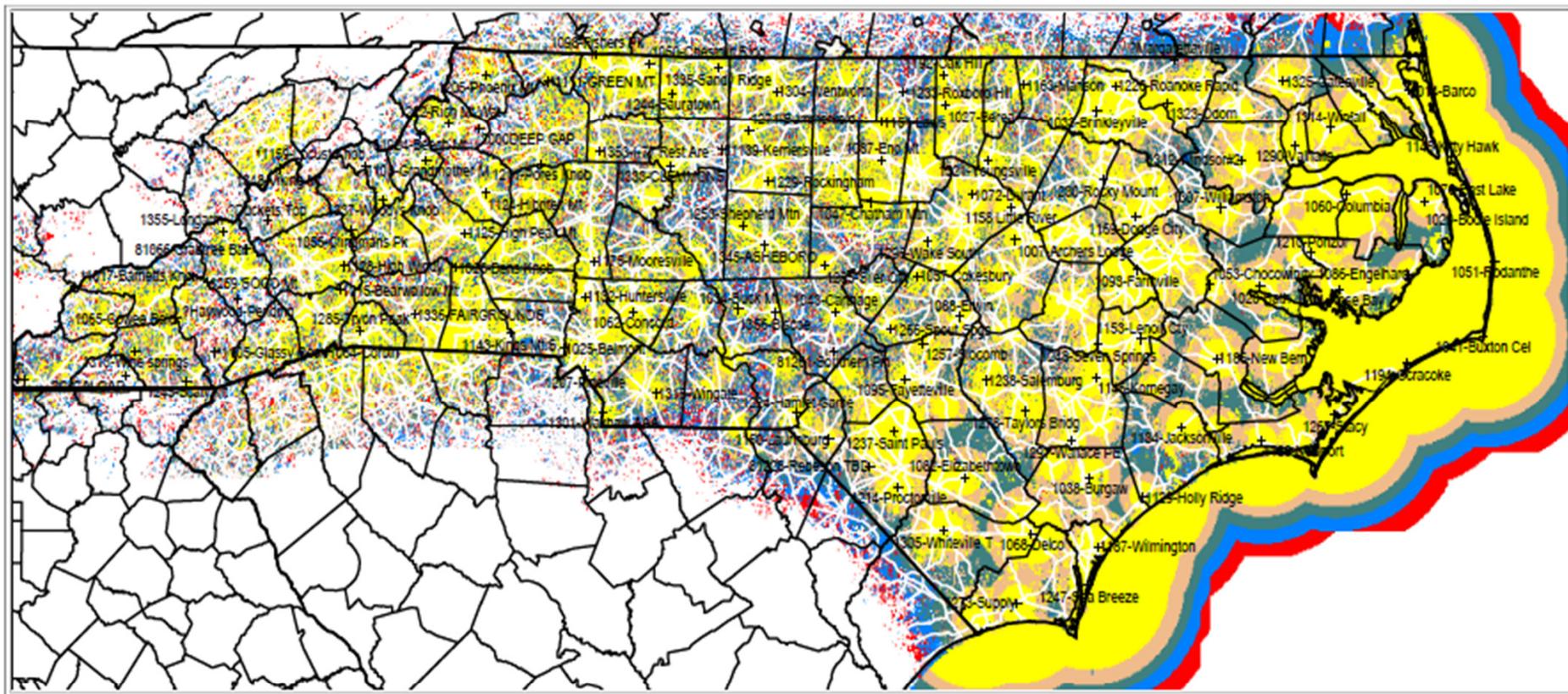
- ▣ 240 total sites planned for statewide coverage
- ▣ 171 sites constructed and on-the-air

- ▣ Estimated cost for VIPER is \$189 million
 - ▣ \$125.5M million funded to date
 - ▣ \$65.5 million remains to be funded
 - ▣ Funding to-date has been a combination of Congressional earmarks (2%), state appropriations (21%), and DHS Funds (77%)

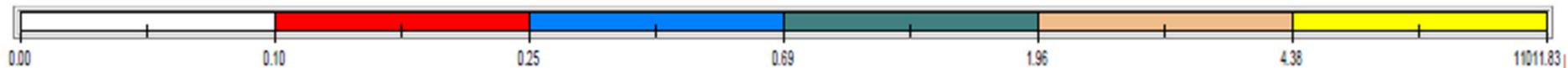
- ▣ VIPER is 70% complete (number of sites) with 171 sites on-the-air
- ▣ VIPER infrastructure is 66% funded;
- ▣ 34% of VIPER remains to be funded
- ▣ 52,783 users are currently on the VIPER Network
 - ▣ 214 Emergency Responding agencies (including federal, state and local agencies) makeup the 52,783 radio users
- ▣ SC has the same type Interoperable System; NC/SC can talk to each other using the same type user device.
- ▣ Updates are available at <http://www.nccrimecontrol.org/VIPER>



VIPER 800MHZ COVERAGE STUDY Rev 5/10/11



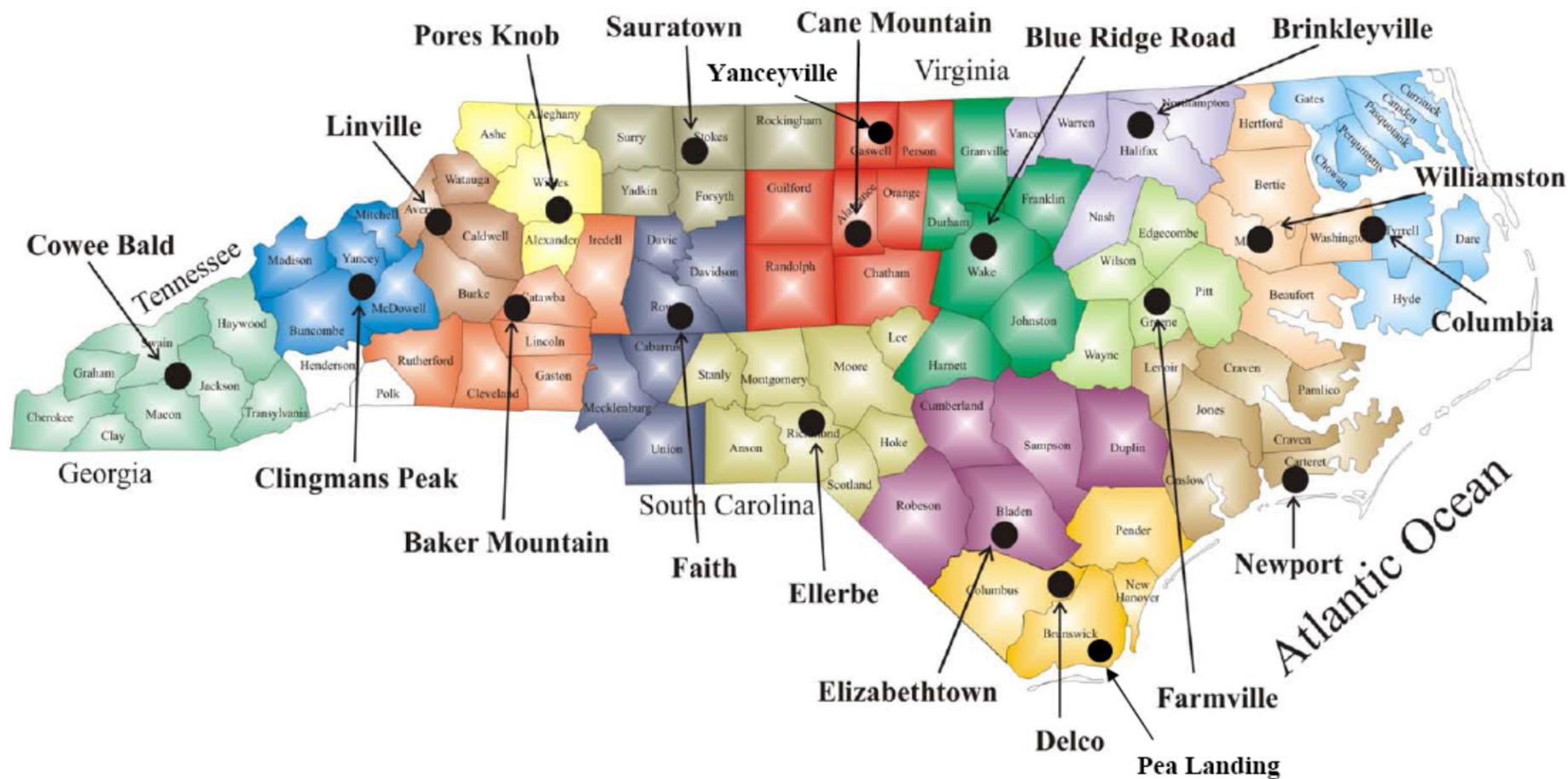
3 - WATT Portable Talk - Back Coverage Analysis



What is the VIPER Tactical Solution?

- ▣ Temporary solution for interoperable emergency communications
- ▣ 19 remote fixed sites with 2 pre-programmed radio's for each county
 1. Law Enforcement
 2. Fire/Rescue or EMS
- ▣ Patches are actually done at SHP Communications centers & State EOC
- ▣ System is in place now and costs locals \$0 to use

VIPER Inter-Agency Interop Sites





PSM-16 PSM-2
JPE Communications, Inc.
1-800-551-3885

DuraComm®

PSM STATUS 1 2 3 4 5
TEMP FAULT
N + 1 DC POWER SYSTEM
VOLT AMP
MOTOR
DALLAS, TEXAS
TECHNICAL SUPPORT 1-800-551-3885

NEWTON

NEWTON

Who Can Authorize the Activation of a VIPER Tactical Patch?

- ▣ Agency Dispatch Center Supervisor
- ▣ State or Local E.M. Coordinator
- ▣ Event Incident Commander
- ▣ Any Technical Staff Member of the VIPER Group

How To Activate

- ▣ Call your Local Highway Patrol Communications Center or the State EOC
- ▣ Identify who is authorizing the patch
- ▣ Identify what agencies you want to patch
- ▣ Confirm that patch has been activated

Remember:

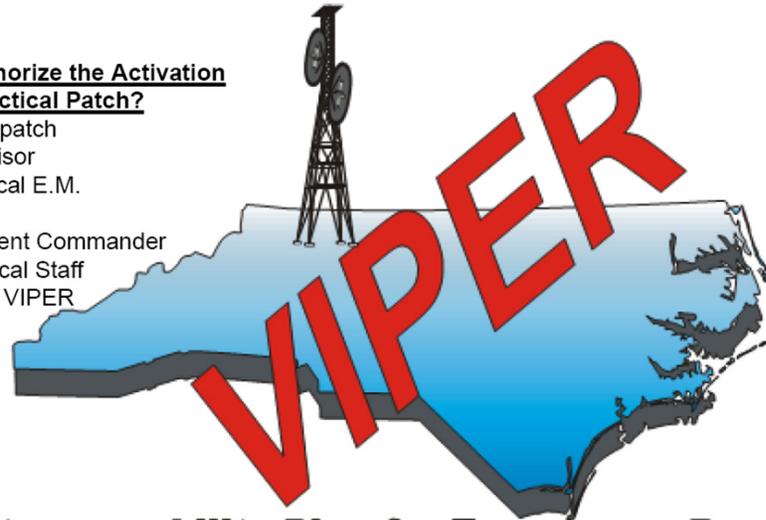
It is the initiating agency's responsibility to deactivate the patch

VIPER TACTICAL SOLUTIONS

Provide temporary interoperable communications with other public safety agencies from surrounding jurisdictions and state agencies on-demand during emergencies.

Who Can Authorize the Activation of a VIPER Tactical Patch?

- Agency Dispatch Center Supervisor
- State or Local E.M. Coordinator
- Event Incident Commander
- Any Technical Staff Member of the VIPER Group



Voice Interoperability Plan for Emergency Responders

ACTIVATION PROCEDURE

1. Call your Local Highway Patrol Communications Center.
2. Identify who is authorizing the patch.
3. Identify what agencies you want to patch.
4. Confirm that patch has been activated.
 - **Remember:** It is the initiating agency's responsibility to deactivate the patch.

Troop A Williamston	800-441-6127
Troop B Elizabethtown	800-334-7411
Troop C Raleigh	800-662-7956
Troop D Greensboro	800-445-8621
Troop E Salisbury	800-233-3151
Troop F Newton	800-4451779
Troop G Asheville	800-445-1772
Troop H Monroe	800-572-8765
State EOC	800-858-0368

Frequently Asked Questions

- ▣ Will I Have to pay to use the system?
- ▣ Why only 2 channels for each county?
 - ▣ LAW
 - ▣ FIRE

Mobile Solution (Tactical)

- ▣ 7 mobile interoperable communications platforms to eliminate diminished capacity for extended periods
- ▣ Pre-positioned across the state
- ▣ Long term incidents / events
 - ▣ More than 6 to 8 hours
- ▣ Enhanced unit to support 800 MHz systems and operate as a stand-alone communications system
- ▣ Large special events



S.T.R. Resources

- ▣ Strategic Technology Reserve
- ▣ DHS funded radio caches' with support equipment
- ▣ 9 trailers located throughout the state





End User Training



VOICE INTEROPERABILITY PLAN FOR EMERGENCY RESPONDERS



<http://smrs.emspic.org/viper/>

QUESTIONS?

Trooper T. Lane Hobbs
919-662-4440 ext706
tlhobbs@ncshp.org

www.nccrimecontrol.org/citizens/VIPER

24 Hour Network Operations Center
1-888-92-VIPER
(1-888-928-4737)

VOICE INTEROPERABILITY PLAN FOR EMERGENCY RESPONDERS



Voice Interoperability Plan for Emergency Responders

A CJIN Module

Phone: 888-92-VIPER

Fax: 919-662-4444

E-mail: VIPER@ncshp.org

On-Line Training

<http://smrs.emspic.org/viper/>

Website

www.NCCrimeControl.org/VIPER