

# HAMPTON ROADS INTEROPERABLE COMMUNICATIONS

Presented to the Hampton Roads Planning  
District Commission

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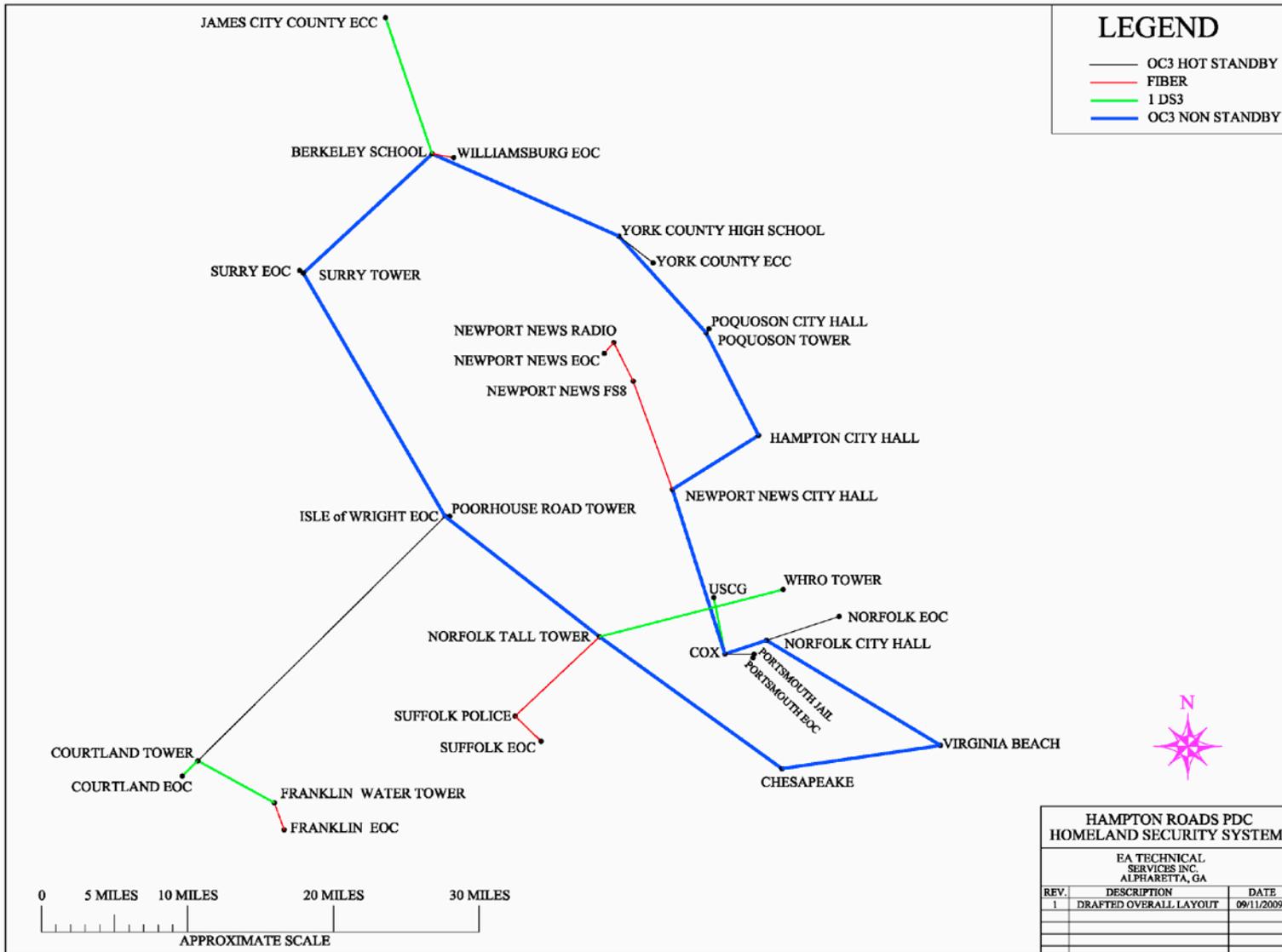
# COMPONENTS OF INTEROPERABILITY

- Hampton Roads Tactical Regional Area Network
- Overlay Regional Inter-Operability Network (ORION)
- Radio Caches
- Governance
- Funding
- Challenges



# HAMPTON ROADS TACTICAL REGIONAL AREA NETWORK (HRTACRAN)

- A highly survivable regional microwave system
  - A public safety grade microwave network providing regional communications interoperability
  - Supports a Voice over Internet Protocol (VoIP) phone system
  - Core architecture for linking key Federal, State and local agencies
  - Supports HR localities
    - Coast Guard Integrated Command Center
    - Virginia Emergency Operations Center in Richmond
    - WHRO facility in Norfolk
  - Reliable high-bandwidth backbone for the voice, video, and data systems needed during high stress or disaster related periods



### LEGEND

- OC3 HOT STANDBY
- FIBER
- 1 DS3
- OC3 NON STANDBY



HAMPTON ROADS PDC HOMELAND SECURITY SYSTEM		
EA TECHNICAL SERVICES INC. ALPHARETTA, GA		
REV.	DESCRIPTION	DATE
1	DRAFTED OVERALL LAYOUT	09/11/2009

# HAMPTON ROADS TACTICAL REGIONAL AREA NETWORK (HRTACRAN)

## ○ Establishment

- February 2003 – Urban Area Security Initiative Port Security Grant (\$6,000,000)
- A Regional Communications Committee (RCC)
- Link each jurisdiction's Emergency Operations Center
- System deployed

## ○ Possession

- HRPDC has FCC licenses
- Equipment in localities
- No central authority



# OVERLAY REGIONAL INTER-OPERABILITY NETWORK (ORION)



- Provides regional interoperability network for Command, Control & Communications (C3)
  - HRTacRAN is the backbone and supporting structure
- Significant investment to enhance regional interoperability with this structure
- P25 700/800 MHz radios
  - Programmed with ORION talk-groups & national interoperability channels
  - Provides first responders in the region with a shared standards-based wide area interoperable network.
- Expanding C3 enables first responders to communicate throughout the entire region.

# RADIO CACHES & OTHER INTEROPERABLE SYSTEMS

- Two Caches

- Regional Resource
  - Chesapeake & Hampton

- Intraregional Systems

- York, JCC, Williamsburg, & Gloucester model
- Study initiated for similar System in Suffolk

- WebEOC

- Consequence Management IT System
- Used in Emergency Operations Centers



# GOVERNANCE & FUNDING

## ○ Governance

- Hampton Roads Interoperable Communications Advisory Committee
- ORION Steering Committee

## ○ Funding

- Over \$30+ million invested
- Urban Area Security Initiative (UASI)
- Port Security Grant Program
- Interoperable Emergency Communications Grant Program (IECGP)



Homeland  
Security

# REGIONAL INTEROPERABILITY CHALLENGES

- HRTacRAN Maintenance and Sustainment
  - Funding solutions elusive
  - Failure would be catastrophic
  - Functional for voice communications
  - Hardware failures occurring
  - **If this architecture fails, ORION cannot be supported**
- Central Management
  - Ownership
  - Grants awarded to multiple localities
  - Regional Interoperability Coordinator

## RECOMMENDED ACTION

- Approve the Executive Director and staff to work with the Chief Administrative Officers to develop a local funding and management solution to maintain and sustain the interoperable communications networks
  - If grant solutions cannot be obtained



# Questions