

NATIONAL WIRELESS COMMUNICATIONS INFRASTRUCTURE PROGRAM



UNITED STATES DEPARTMENT OF COMMERCE

**Mr. Charles E. Cape, Chairman, NWCIP Subcommittee,
Committee Of Representatives , National Communications
System**

NATIONAL WIRELESS COMMUNICATIONS INFRASTRUCTURE PROGRAM

- **PURPOSE:** To present a framework for the adoption of a [National Level Program](#) and inform appropriate agencies who may have missions in this subject area.

The Department of Commerce has been designated the Chair of the subcommittee.



NATIONAL WIRELESS COMMUNICATIONS INFRASTRUCTURE PROGRAM

OBJECTIVES: To Solve the Following Issues

1. Lack of **INTEROPERABILITY** Between Disparate Land Mobile Radio Systems
2. Mandate to **NARROWBANDING** Systems
3. **DUPLICATION** of Effort & Expenditure By Multiple Organizations
4. Lack of A Single National Wireless System to Support Homeland
NATIONAL SECURITY & EMERGENCY PREPAREDNESS

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NWCIP Provides Solutions

- INTEROPERABILITY
- Type 1 & Advanced Encryption System Capabilities
- Directly to narrowband (6.25khz) or EQUIVALENT (4X6.25khz)
- Eliminates duplication of effort and expenditures
- *Supports Critical Infrastructure Protection, Homeland National Security and Responds to Emergency Preparedness*

HOW ???

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➤ ***GENESIS FOR THE NWCIP:***

PACIFIC MOBILE EMERGENCY RADIO SYSTEM (PACMERS)

- Interoperability & Narrowband Solution (uses 406.1- 420mhz Band)
- Being Deployed throughout Hawaii and Alaska
- Includes Military and Invitation to other Federal Government with Interoperability to State and Local Law Enforcement
- **Pacific Mobile Emergency Radio System Concept Saves \$94 Million over 8 years**

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Trade-off Analysis

	STATUS QUO	PACMERS
PURCHASE PRICE OF EQUIPMENT AND INSTALLATION ONLY	\$82,164,000	INCLUDED IN LEASE
ACCEPTED O&M 8 YEAR CONTRACT	\$96,000,000	INCLUDED IN LEASE
REPLACEMENT COST OF 50% EQUIPMENT AT YEAR 6	\$41,000,000	INCLUDED IN LEASE
CONNECTIVITY OVER 8 YEAR CONTRACT	\$32,000,000	INCLUDED IN LEASE
MANPOWER/TRAINING COST:	UNKNOWN	INCLUDED IN LEASE
TRUE COST OF 8 YEAR CONTRACT	\$251,000,000	\$157,983,699
SAVINGS TO TAXPAYER OVER LIFE OF 8 YEAR CONTRACT	NONE	\$94,000,000

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PACIFIC MOBILE EMERGENCY RADIO SYSTEM

Business case allowed for two choices only

– STATUS QUO *UNACCEPTABLE*

OR

– A New Way of Doing Business *PACMERS*



**NATIONAL WIRELESS COMMUNICATIONS INFRASTRUCTURE
PROGRAM**

Potential Customer Base:

*Every User Of Land Mobile Radio
In
Department of Defense
&
The United States Civilian Government*

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DoD/USG Implementation:

- Digital Network Management System (DMNS) Based
 - Provide Immediate Interoperability
 - Surrounding State, Local Entities & First Responders
- **10 Regional** Trunked Narrowband Networks
 - Using All **Assigned Spectrum Bands**
 - Land Mobile Radio Systems using Leased Systems
- Connectivity ... *When Required*
 - Other locations/organizations
 - Interoperability with All Land Mobile Radio at All Levels
- Supports Alternate System during Response to Counterterrorism
 - Assist in Emergency Call-up
 - National Guard & Reserve Units

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FULL IMPLEMENTATION:

- 1. Redesigns the Way Mobile Users In The US Government Do Business**
- 2. All Bases, Posts, Camps & Stations Would Use Leased Trunked Land Mobile Radio Systems**
- 3. DOD/National Guard & Reserve Facilities Would Provide A Ubiquitous Backbone For the State Portion Of The NWCIP**

Fills the Existing Void Between ...

- The Emergency Wireline System (Government Emergency Telephone System)**
- The Lack of a National Land Mobile Radio Wireless Emergency System**

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NWCIP

SUPPORT & INTEREST:

- MEMBERS OF CONGRESS
- OFFICE OF MANAGEMENT AND BUDGET
- OFFICE OF SCIENCE AND TECHNOLOGY POLICY
- NATIONAL SECURITY COUNCIL

NATIONAL WIRELESS COMMUNICATIONS INFRASTRUCTURE PROGRAM

SOUTHWEST & NATIONAL CAPITAL REGIONAL PILOT

- LEASE Vs. BUY Equipment
- Total **Turn-Key** Systems (Installation, Maintenance, Support, etc)
- USE OMA Vs. OPA Funds 31 Bases
- Full Service Contract
 - Through General Services Administration's Existing Vehicles
 - (Allows For Multi-year Funding Through Information Technology Fund)

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SOUTHWEST PILOT PROGRAM

- **Commander-in-Chief Pacific Fleet**
 - Desires to Convert 19 Bases To Pacific Mobile Emergency Radio System Concept In Southwest
 - Would Be Their Own Executive Agent For This Program
 - (Not Part Of The Hawaii And Alaska Program)
- **This Naval Program Should Be Incorporated into The Homeland Defense Office/Agency Program**

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SOUTHWEST PILOT PROGRAM (*CONT'D*)

- 19 Naval Facilities In Southwest United States
- Additional Facilities in Pilot:
 - *Fort Bliss, TX*
 - *Davis Monthan Air Force Base, AZ*
 - *Fort Huachuca, AZ*
 - *Yuma Proving Grounds, AZ*
 - *Luke Air Force Base, AZ*
 - *White Sands Missile Range, NM*
 - *Kirkland Air Force Base, NM*
 - *Edwards Air Force Base, CA*

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NATIONAL CAPITAL REGION SYSTEM

- An Effort To Purchase Equipment & Conduct Business In The Status Quo Mode Is Ongoing.
- Pilot would Incorporate Ongoing System Design & Contracting Into The National Wireless Communications Infrastructure Program
- Would Initially Cover:
 - *Fort Meade, MD*
 - *Fort Belvoir, VA*
 - *Fort McNair, DC*
 - *Fort Meyer, VA*
 - *Two Civil Agencies*

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SOUTHWEST & NATIONAL CAPITAL REGIONAL PILOT

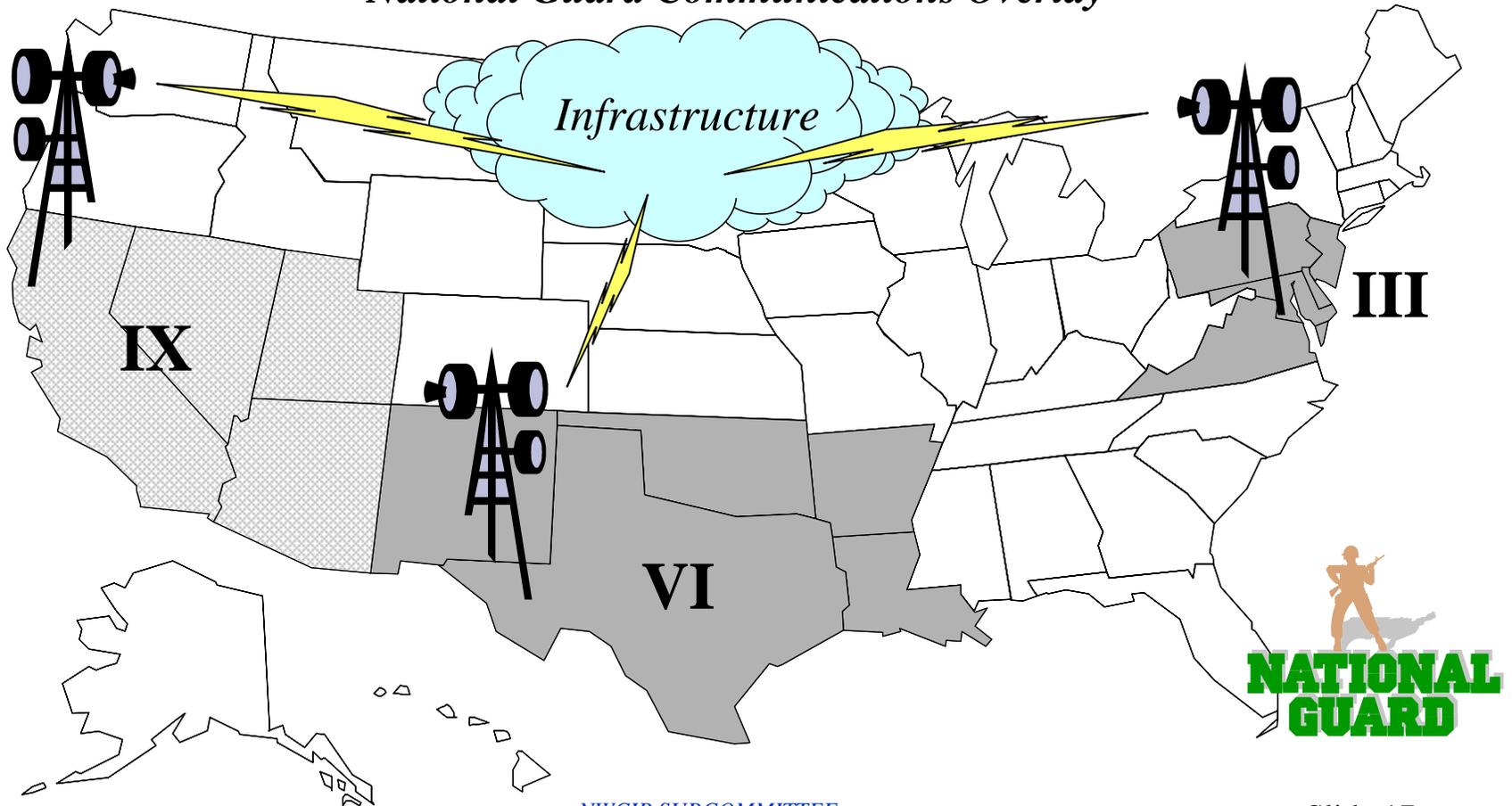
FEMA DESIGNATED REGIONS



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SOUTHWEST & NATIONAL CAPITAL REGIONAL PILOT

National Guard Communications Overlay



NATIONAL WIRELESS COMMUNICATIONS INFRASTRUCTURE PROGRAM

RECOMMENDATIONS

1. **Extend Pacific Mobile Emergency Radio System Concept Solution Throughout the United States.**
2. **Establish Pilot Program in Complete Southwestern & National Capital Region of The United States (12 Military Installations).**
3. **Incorporate Commander-in-Chief Pacific Fleet's Conversion of 19 Facilities in Southwest into Pilot Program (Total Of 31 Military Facilities). Plus ADDITIONAL FED AGENCIES.**
4. **The Homeland Defense Office/Agency System will be Lead Agency for Pilot. Program would become a National Level Permanent Program of the HDO/A.**

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COST OF STAND UP FOR SOUTHWEST & NATIONAL CAPITAL REGIONAL PILOTS

- \$100,500,000 New Money (10 Year Funded)**
- Pilot Program**
 - The Homeland Defense Office/Agency lead**
 - National Level Program**
 - Would Become Nation Wide**
 - Singularly Funded Directly to GSA**
 - Centralized**
- Single Contract Through One Of Existing General Services Administration Contract Vehicles Using Information Technology Revolving Fund**

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Questions ??

MR. CHARLES E. CAPE, CHAIRMAN
NWCIP Subcommittee
Committee Of Representatives
National Communications System
202-482-3272 Office

