The mission of the Pennsylvania Emergency Management Agency is to coordinate state agency response, including the Office of the State Fire Commissioner and Office of Homeland Security, to support county and local governments in the areas of civil defense, disaster mitigation and preparedness, planning, and response to and recovery from man-made or natural disasters.

October 15, 2009
SEOC Resources

- PEIRS/IM Tools
- Emergency Alert System
- State Radio Network
- IFLOWS System
- CLEAN
- SEVAN
- Amateur Radio
- PAWAS

- PA Star
- Email
- Fax
- HSIN
- Satellite Truck
- Voice Over IP
- NAWAS
PEMA Uplink Trucks
PEMA Regional Offices

• PEMA Area Offices provide on site assistance to county commissioners, municipalities elected officials and their Emergency Management staffs during times of man-made or natural disasters.

• Assistance is provided in coordination with each of the 67 County Emergency Management Coordinators.

• Each Area Office has a small staff of Emergency Management Specialists that can provide assistance and expertise to counties before, during and after a disaster.
PEMA Regional Offices

- Routine assistance is provided to County Emergency Management Agencies for all types of Disaster Planning, Training, Exercise Design & Development, and Professional Management Skills development.

- Area Offices work as the field extension of PEMA, coordinating with all Commonwealth Agencies, County and Municipal Government, volunteers and the private sector to assist in the prevention, preparedness, response and recovery from all types of disasters.
What is the PA All-Hazards IMT?

• A multi-agency/multi-jurisdiction team for extended incidents, formed and managed at the State level

• It is a designated team of trained personnel from different departments, organizations, agencies, and jurisdictions within a state
What is the PA All-Hazards IMT?

• It is activated to support management of major and/or complex incidents requiring a significant number of local, regional, and state resources, and incidents that extend into multiple operational periods or at planned mass-gathering events.
Key Tenets

• Rapidly Deployable

• Field Sustainable

• Knowledgeable in NIMS/ICS, Emergency Management, and Disaster Field Operations
Key Tenets

• Multi-Disciplined

• Knowledgeable in intelligence collection and analysis distribution

• Knowledgeable of the Commonwealth process for emergency management.
Team Capabilities

• Provide assistance and situational awareness within scope of assignment.

• Facilitate the implementation of incident command and unified command

• Direct, coordinate, and support resources at the tactical level
Team Capabilities

• Facilitate communications between field structures and the State Emergency Operations Center (SEOC)

• Provide assistance for planned events
Pennsylvania Statewide Radio Network
PA-STARNET
State Radio and Interoperable Communications May 2011
PA STARNet

- 800 MHZ
- Multi-Case
- Trunked
- OpenSky Technology
- Mobile Based
- 95% Land Coverage Required
Network Connectivity
PA-STARNet Sites
Field Equipment

M-803
Mobile Radio

SP-103
Deskset

P7200
Portable Radio

DTMF
Microphone

V-TAC
Agencies Using PA-STARNet

- Department of Transportation
- Office of Attorney General
- Department of Health
- Pennsylvania Emergency Management Agency (PEMA)
- Pennsylvania Board of Probation and Parole
- Department of Military and Veterans Affairs
  - Civil Air Patrol
- Department of Environmental Protection
- Department of Corrections
- Pennsylvania State Police
- Public Utility Commission
- Department of Agriculture
- Office of Administration
  - Public Safety Radio Services
  - Administrative Services
- Legislature
  - House of Representatives Security
  - Senate Security
- Department of General Services (DGS)
  - Capitol Police Department
  - Fire, Safety, Maintenance
- Pennsylvania Turnpike Commission
- Department of Conservation and Natural Resources
Sites

242 Towers
generally
180–330 feet

676 Microcells
generally
90 feet
Interoperability

- Profiles 14, 15 and 16 on state radios
- County Control Stations at 911 Centers
- DOH control stations at hospitals
- Cumberland County
- Dauphin County
- Lebanon County
- City of Allentown
- VHF Overlay
- UHF Overlay
- 700MHz P25 Overlay
- Philadelphia (DOJ 25 Cities, T Band, Mass Casualty Evac.)
- NJ (OH, MD, DE, WV, planned for future)
- SWIC (Mark Wrightstone) Regional exercises
<table>
<thead>
<tr>
<th>Profile 16</th>
<th>Profile 15</th>
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<tbody>
<tr>
<td><strong>Primary Reserved</strong></td>
<td><strong>Secondary Reserved</strong></td>
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<td>16 COMMON</td>
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4 Ways to Connect

for interoperability on the PA-STARNet system

Option 1 - Stand-alone control station

Considerations:
- Only one active talk group at a time
- Competes for RF tierless availability (queues if in busy area)
- RF coverage class constraints
- Limited access at communications centers consoles
- Low cost, no cost, to county

Option 2 - Integrated control station

Considerations:
- Only one active talk group at a time
- Competes for RF tierless availability (queues if in busy area)
- RF coverage class constraints
- Accessible at communications centers consoles
- Difficult to identify caller when scanning multiple talk groups

Option 3 - NetworkFirst Gateway

Considerations:
- Supports more than one active talk group
- Not limited by RF coverage classes
- Accessible at communications centers consoles
- Incurs recurring connectivity costs to PA-STARNet

Option 4 - Internetworking of M/A-COM radio networks

Considerations:
- Full features between different radio networks
- Supports more than one active talk group
- Not limited by RF coverage classes
- Accessible at communications centers consoles
- Incurs recurring connectivity costs to PA-STARNet
Tactical Support
Cell on Wheels (COW)
22.5 Meter COW
Networking COW

Networked via Microwave shot
Steel Castle Uproar 2009

Steel Castle Uproar Exercise

Moundsville Prison in Moundsville, WV.

10/06/2009
Communications Overview

**State**
- PEMA
- State Police
- Corrections
- PennDOT
- Environmental Protection
- DMVA
- OA-Public Safety Radio
- Health

**Federal**
- Secret Service
- DHS/FEMA
- FBI

**County/Local**
- County EMS
- County Public Safety
- City Police
- Hospitals

**Command Post**
- Multi-Agency Command Center (MACC)
- Operations Support Unit (OSU)
Partner Agencies – PEMA
Partner Agencies - PSP

Utilized PSP MARIS van to patch UHF to OpenSky
Other Uses – Aviation Video

State EOC
Other Uses – Mobile Data
Maintenance Challenges...
Maintenance Challenges...
statewide coverage
voice and data

Contact Us
Find phone numbers and e-mail addresses for OA-Public Safety Radio staff and business functions.

Get Help
Find answers to common questions, how-to guides and other support resources.

Find a Map
Explore maps showing coverage, county efforts to limit rad

Radio Highlights  Quick Links  Key Documents

Office of Administration Management Directive 245.15
Pennsylvania Statewide Radio Network and Office of Public Safety Radio Services, 7/24/1

Overview and Fact Sheet (Adobe PDF, 128KB)
PA-STARNet history, technology, use, and development status

Statewide Communications Interoperability Plan (SCIP) (Adobe PDF, 12MB)

PA-STARNet Interoperability SOP (Adobe PDF, 1.4MB)
Standard Operating Procedures for interoperable use of PA-STARNet resources, Version
Questions?