











# PEMA/OSFC/OPRS Summary Brief



#### **PEMA Mission**

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.



#### **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**



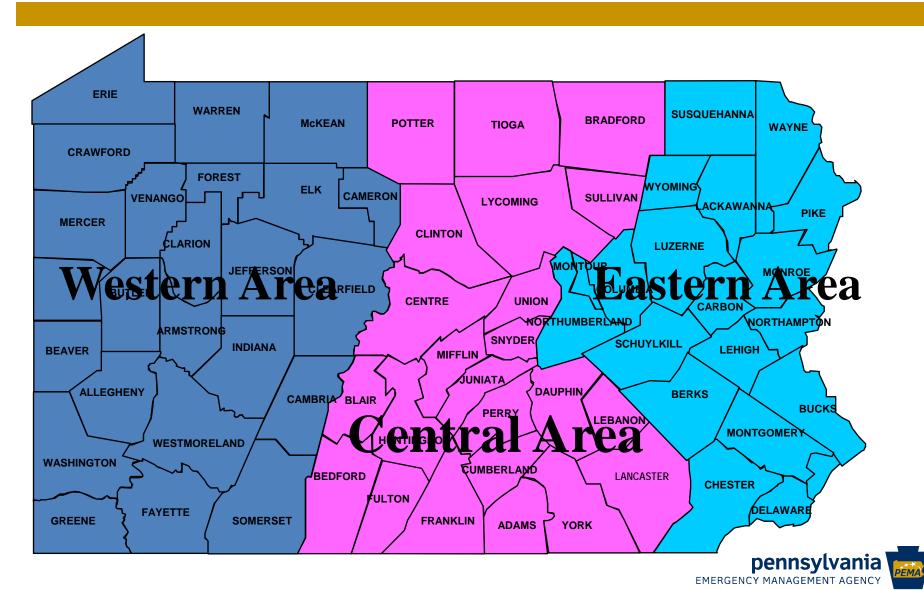








### **PEMA Regional Offices**



#### **PEMA Regional Offices**

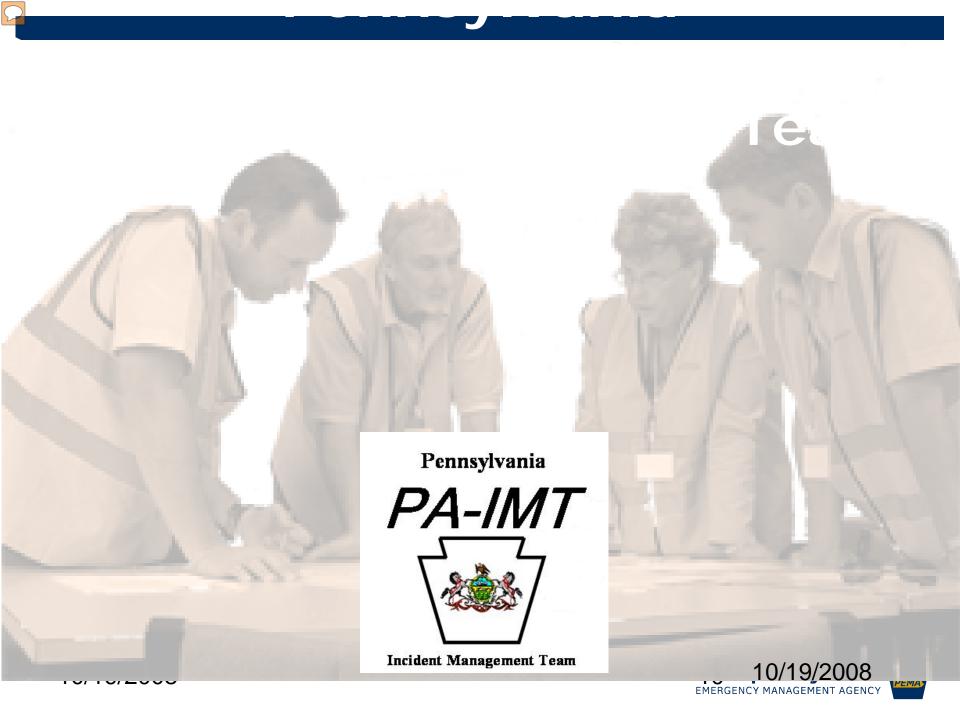
- PEMA Area Offices provide on site assistance to county commissioners, municipalities elected officials and their Emergency Management staffs during times of man-made or natural disasters.
- Assistance is provided in coordination with each of the 67 County Emergency Management Coordinators.
- Each Area 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

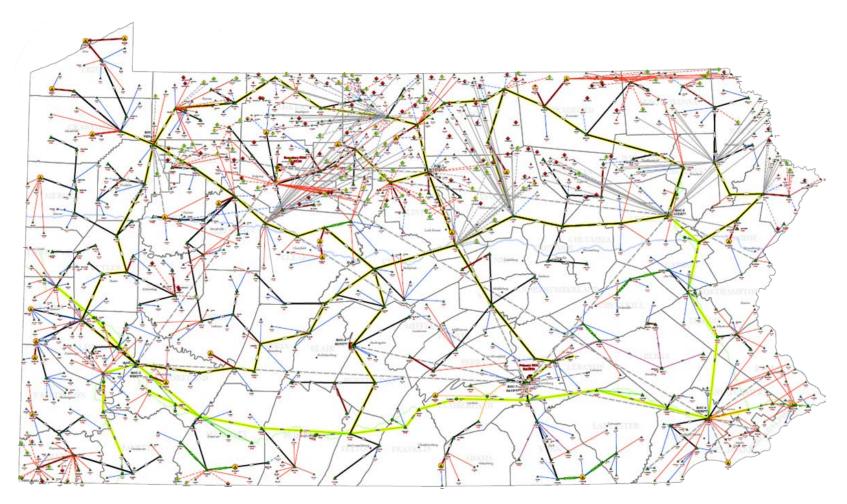
MACCH

#### **PA STARNet**

- 800 MHZ
- Multi-Case
- Trunked
- OpenSky Technology
- Mobile Based
- 95% Land Coverage Required

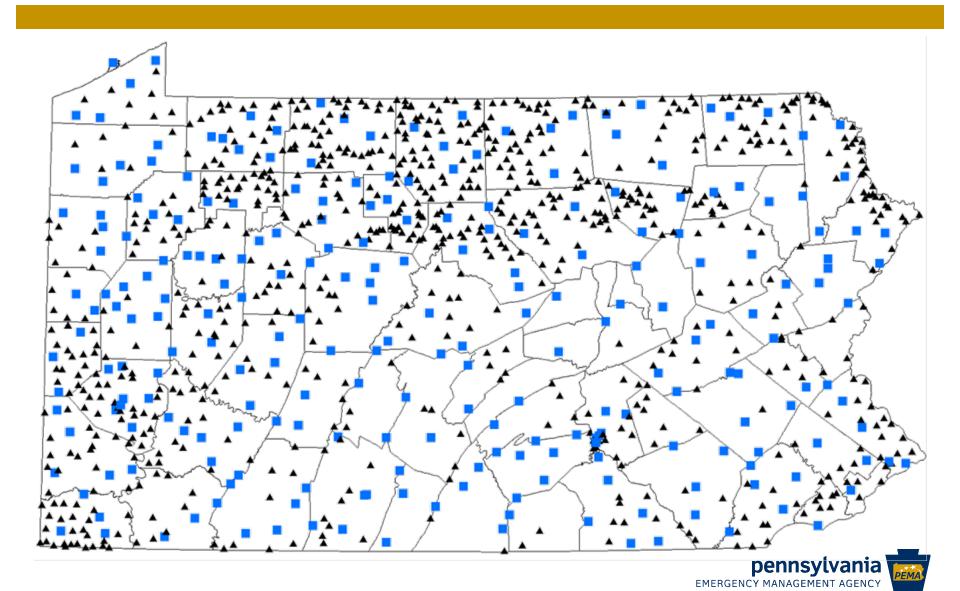


### **Network Connectivity**

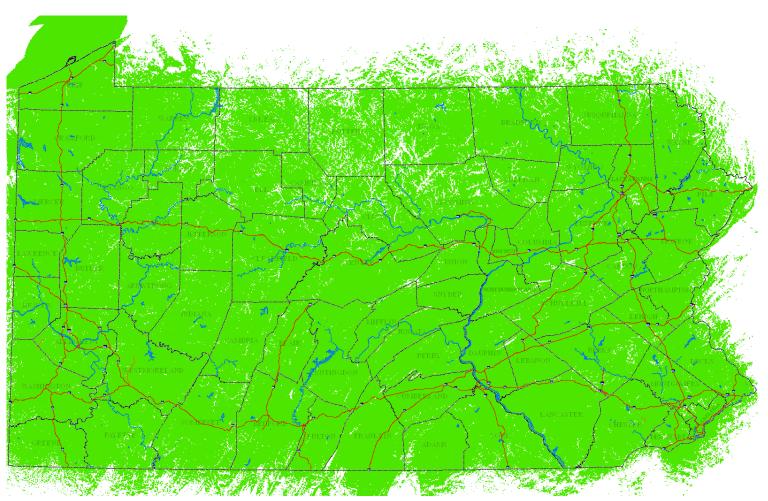




#### **PA-STARNet Sites**



#### **PA-STARNet Coverage**





### Field Equipment



M-803 Mobile Radio











#### 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**



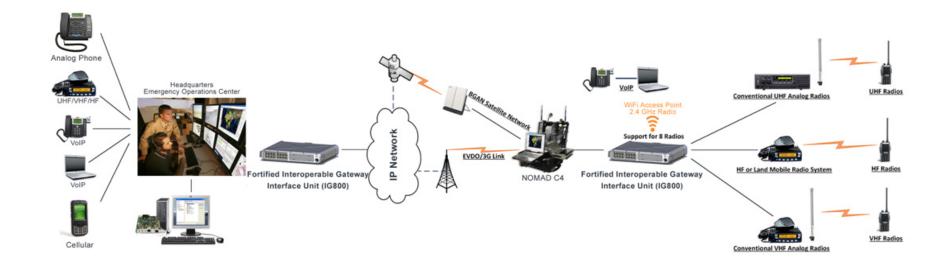
242 Towers generally 180–330 feet

676 Microcells generally 90 feet





### Interoperability





# 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

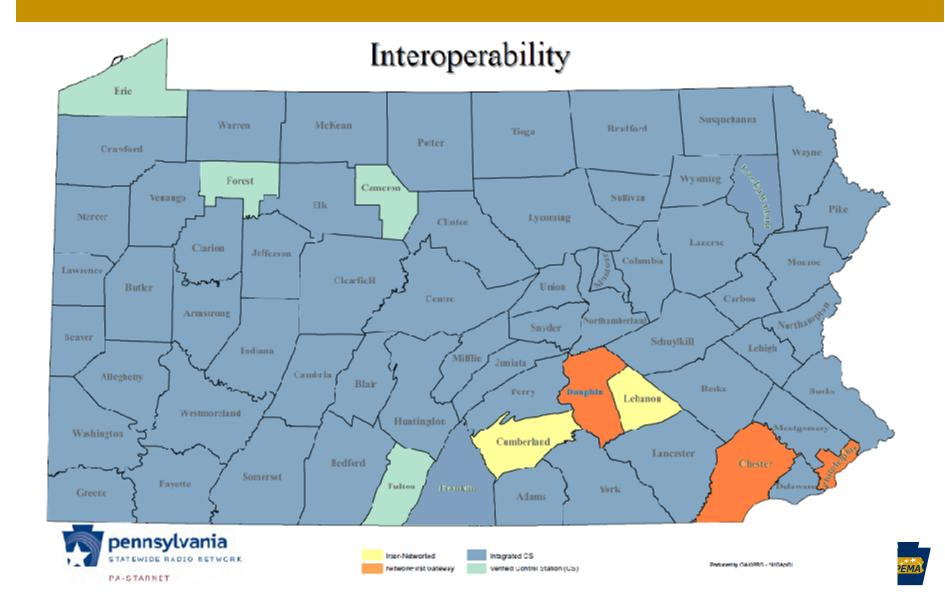


### **Reserved Talk Groups**

Profile 16 Primary Reserved		Profile 15 Secondary Reserved	
<sup>1</sup> CMD_1	<sup>9</sup> TAC_8	<sup>1</sup> CMD_2	<sup>9</sup> TAC_19
<sup>2</sup> TAC_1	<sup>10</sup> TAC_9	<sup>2</sup> TAC_12	<sup>10</sup> TAC_20
<sup>3</sup> TAC_2	<sup>11</sup> TAC_10	<sup>3</sup> TAC_13	<sup>11</sup> TAC_21
<sup>4</sup> TAC_3	<sup>12</sup> TAC_11	<sup>4</sup> TAC_14	<sup>12</sup> TAC_22
<sup>5</sup> TAC_4	<sup>13</sup> PLAN_1	<sup>5</sup> TAC_15	<sup>13</sup> PLAN_2
<sup>6</sup> TAC_5	<sup>14</sup> LOGSTC1	<sup>6</sup> TAC_16	<sup>14</sup> LOGSTC2
<sup>7</sup> TAC_6	<sup>15</sup> ADMN_1	<sup>7</sup> TAC_17	<sup>15</sup> ADMN_2
<sup>8</sup> TAC_7	<sup>16</sup> COMMON	<sup>8</sup> TAC_18	<sup>16</sup> COMMON

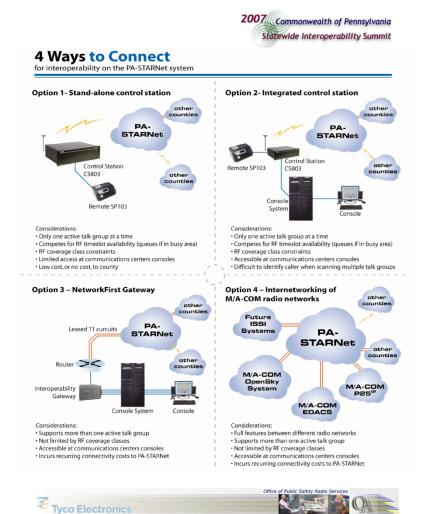


#### **County Interconnect**





#### 4 Ways to Connect





# **Tactical Support**



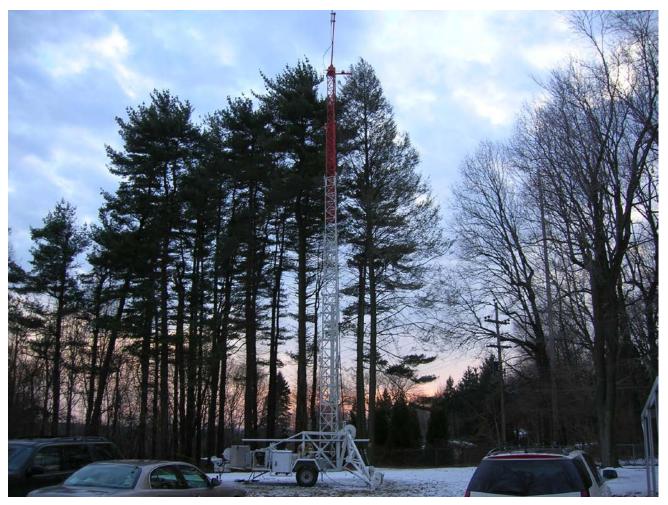


### Cell on Wheels (COW)





## 22.5 Meter COW





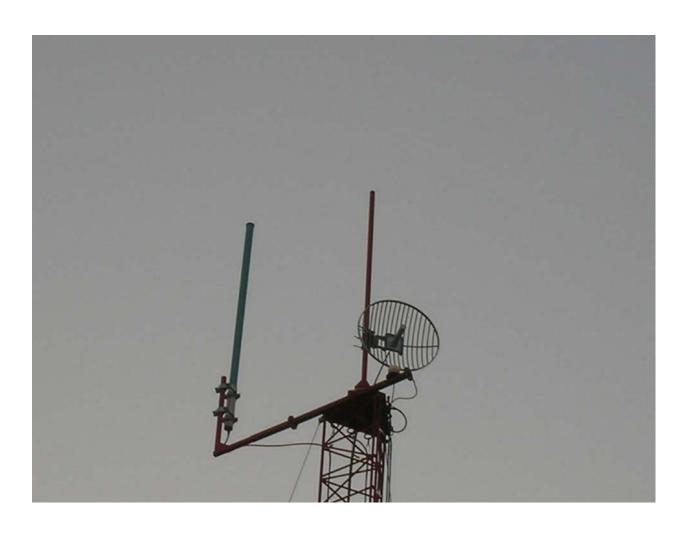
## **40 Meter COW**



40 Meter COW



## **Networking COW**



Networked via Microwave shot



## **Steel Castle Uproar 2009**

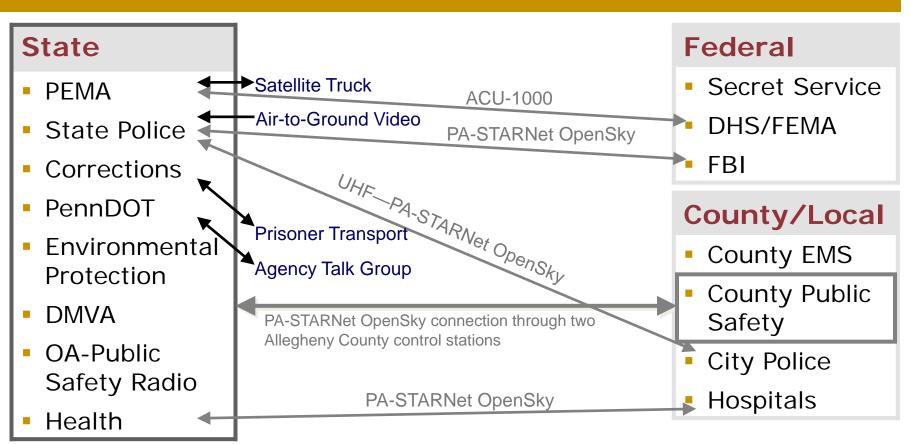


Steel Castle
Uproar
Exercise

Moundsville Prison in Moundsville, WV.



#### **Communications Overview**



Command Post				
Multi-Agency Command Center (MACC)	Operations Support Unit (OSU)			



## Partner Agencies – PEMA





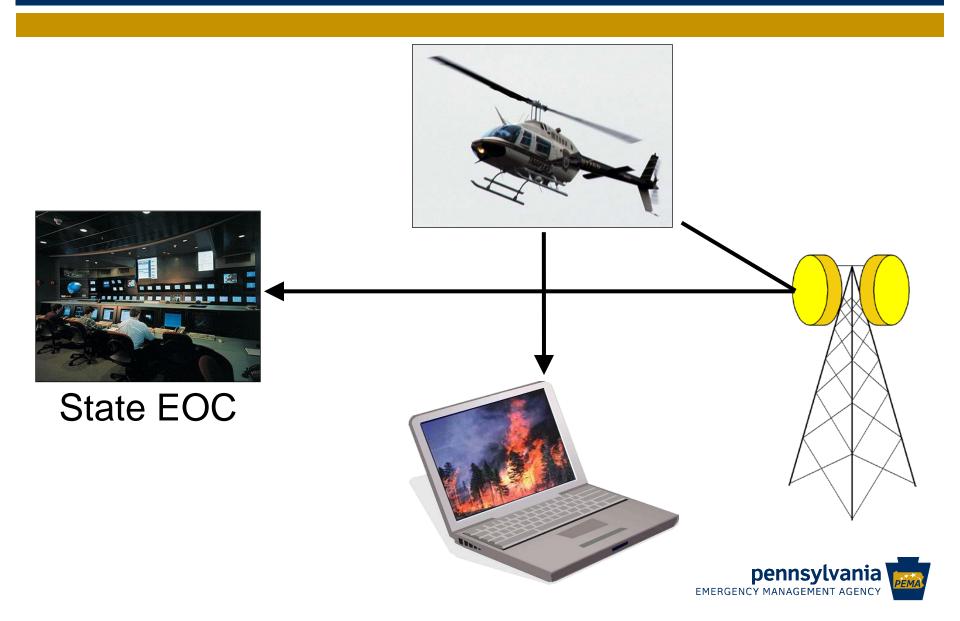
# Partner Agencies - PSP



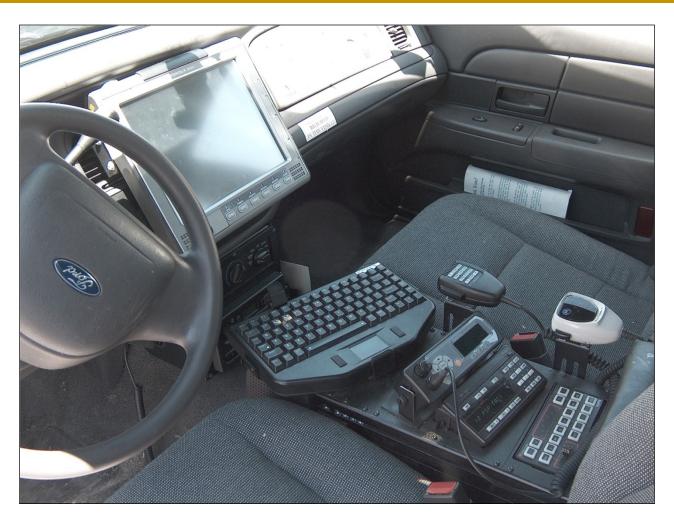
Utilized PSP MARIS van to patch UHF to OpenSky



#### Other Uses - Aviation Video



### Other Uses - Mobile Data





# Maintenance Challenges...





## Maintenance Challenges...





#### www.radio.state.pa.us

#### 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 show coverage, county i 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, 7/24/2

Overview and Fact Sheet (Adobe PDF, 128KB)

PA-STARNet history, technology, use, and development status

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

Pennsylvania interoperability plan, Version 1.1 3/2008

#### PA-STARNet Interoperability SOP (Adobe PDF, 1.4MB)



#### **Questions?**



