



pennsylvania
STATEWIDE RADIO NETWORK

PA-STARNET

Public Safety Communications Operations Committee Meeting

Wednesday, September 7, 2011



▶ Creating Interoperability



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Welcome to APCO TV! APCOtv is your source for news, entertainment and information at APCO International Conference & Expositions. Watch below for the latest content from the 77th Annual Conference taking place in Philadelphia, PA August 7-10th, 2011.

Channels

2011 At Conference

2011 Booth Profiles

2011 Reports

2010 At Conference

2010 Reports

2009 At Conference

2009 Reports



PA-STARNet: Creating interoperability in Pennsylvania

Harris Corporation

Join APCOtv in Harrisburg, the capital of Pennsylvania, where we learn about the values and benefits of having a statewide radio network. Using Harris technology, PASTARNet provides interoperability between various government agencies, police groups and emergency management services. This allows more efficient

Opening General Session
2011



Distinguished Achievers
Breakfast



Interview with Greg Riddle



Interview with Bill Karow



Interview with Vince
Papale



▶ Today's Agenda

PA-STARNet and
Public Safety Radio Update

Steven Kuller
Director, Public Safety Radio

Training Videos
System Field Operations Guide

Shameka Gooding
Training Manager, OPRS

Change Management Update

David Forster
System Test & QA Manager, OPRS

Special Event Support
Aviation Communications and Video

J Mark Wrightstone
Director, Customer Support, OPRS
Michael Kosalko
Office of Attorney General

Two-Way Radio
Communications Contract

Kay Shaffer
Chief, Enterprise Contract Administration

Narrowbanding:
Herding the Cats

Vicky Church
Communications Electronics

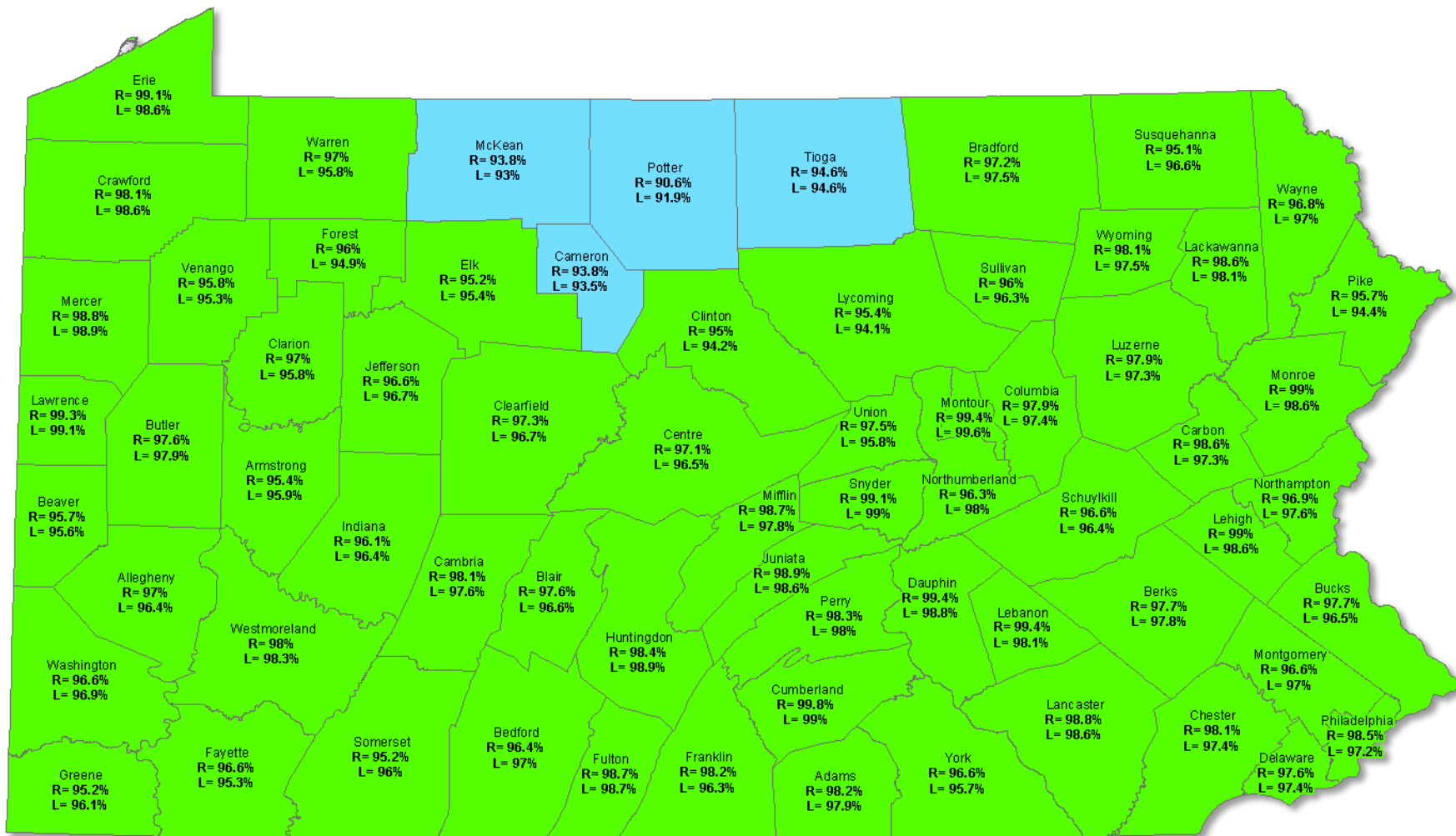
Topic:

PA-STARNet and Public Safety Radio Update

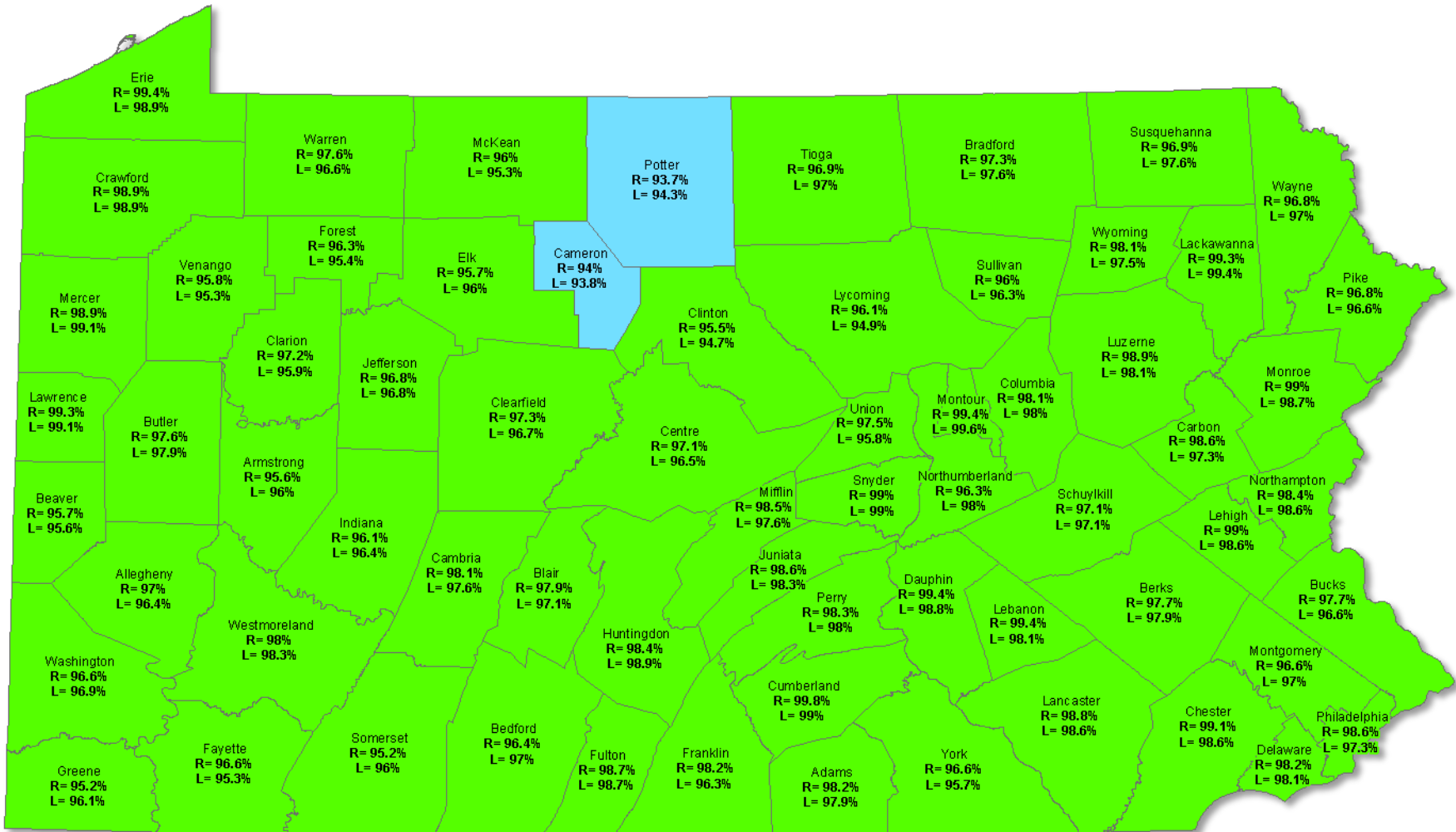
Steven Kuller

Director, Public Safety Radio

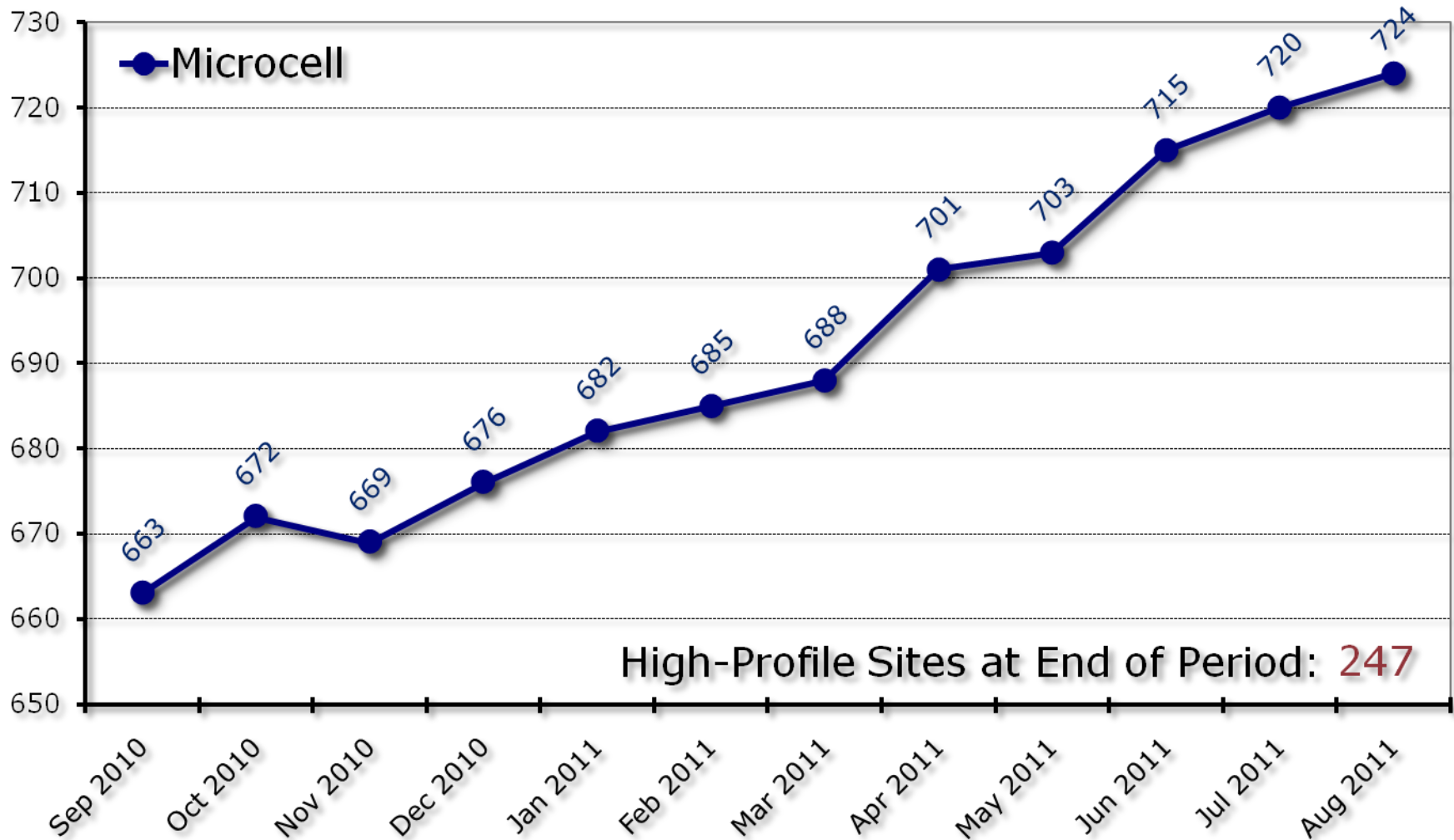
Operational Coverage



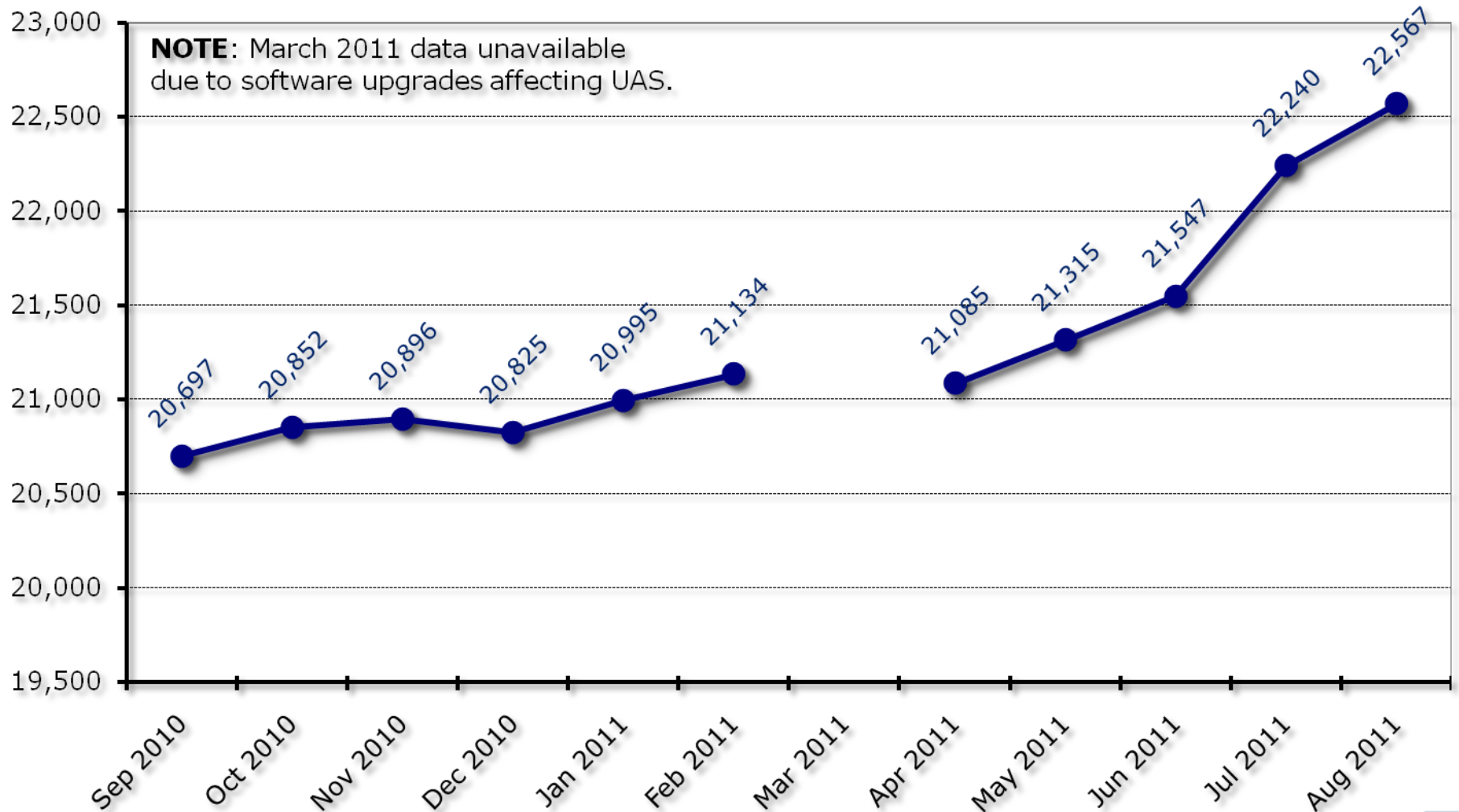
Design Coverage



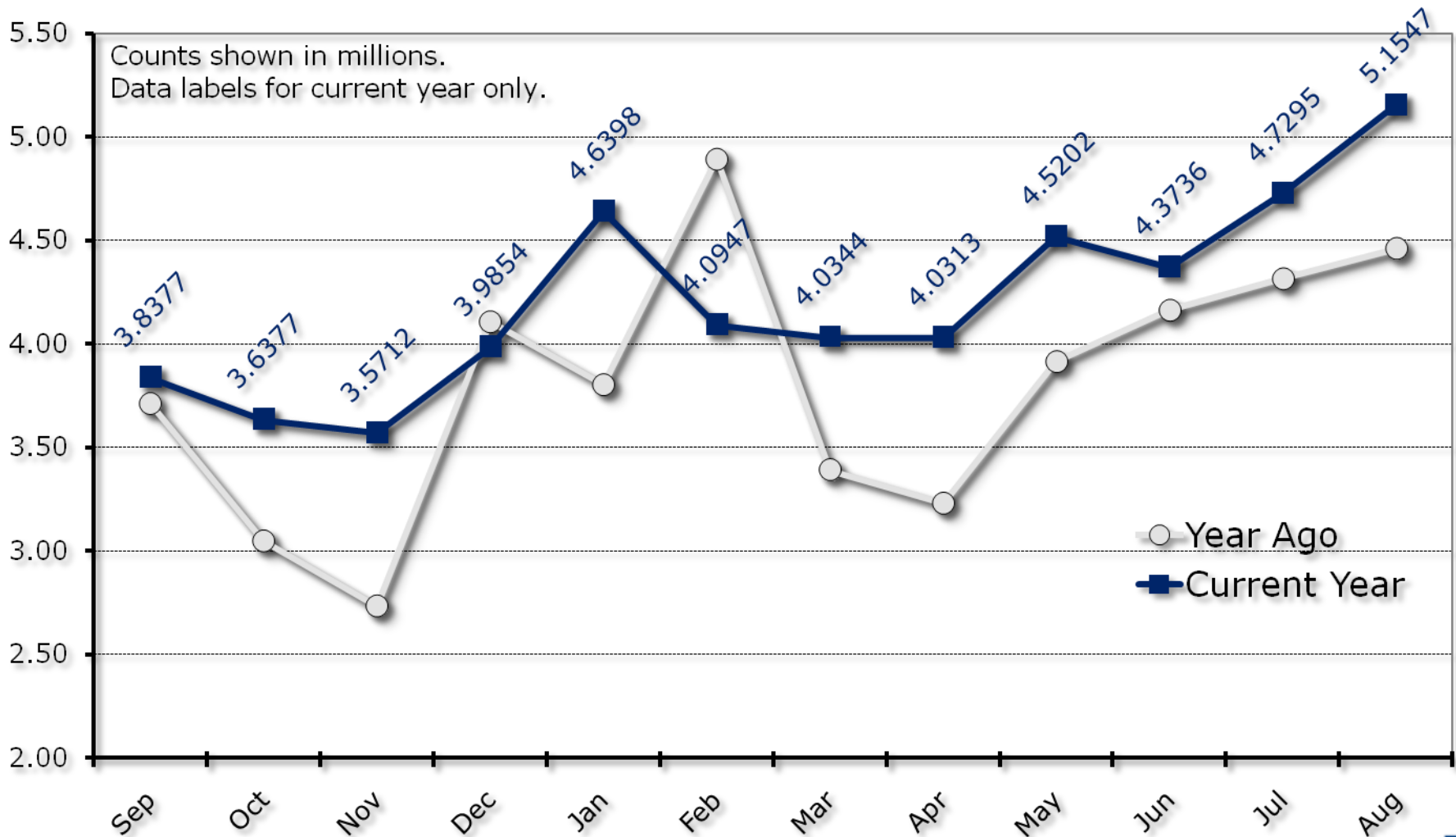
Site Counts



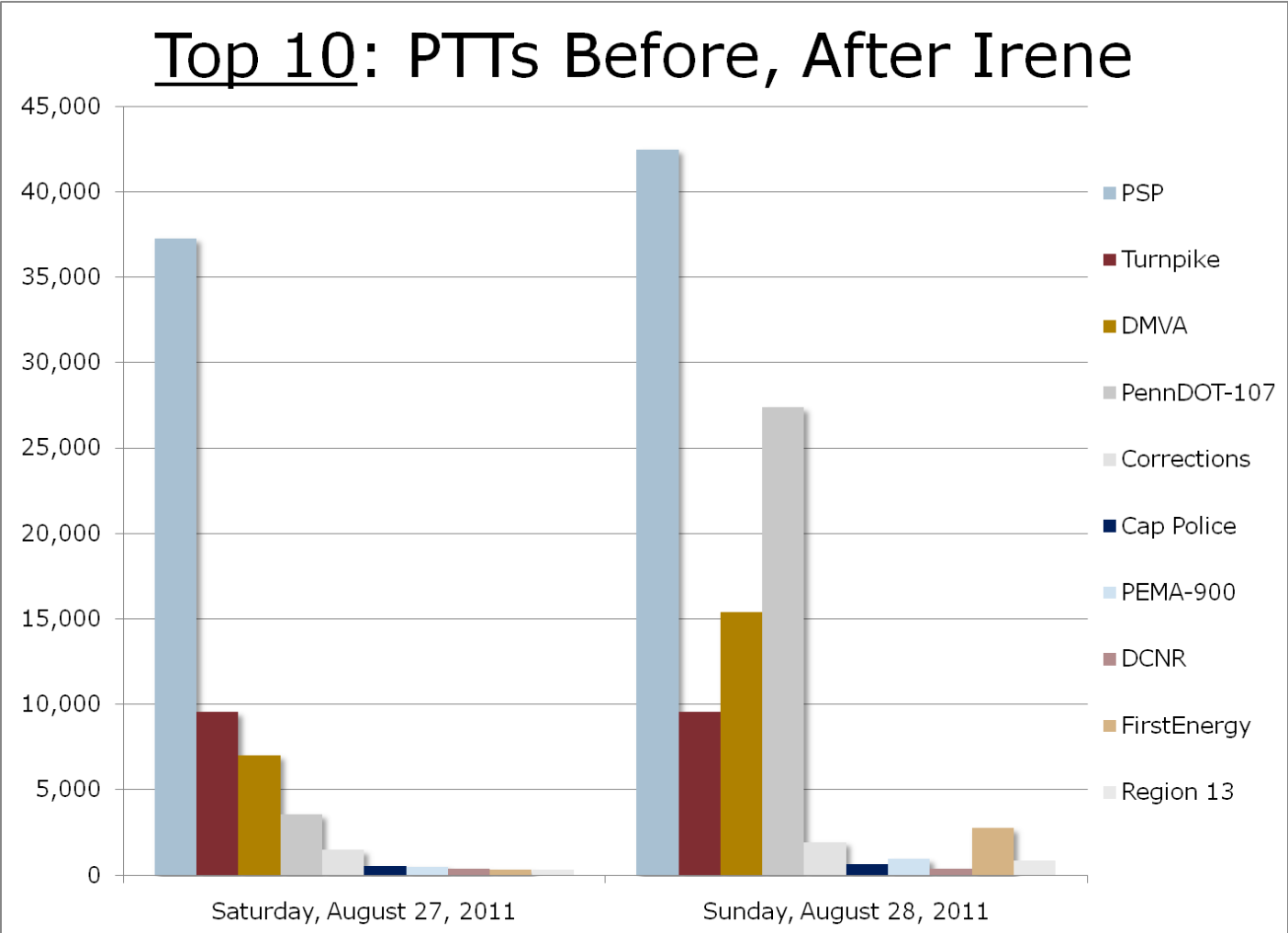
Subscriber Devices



Call Volume

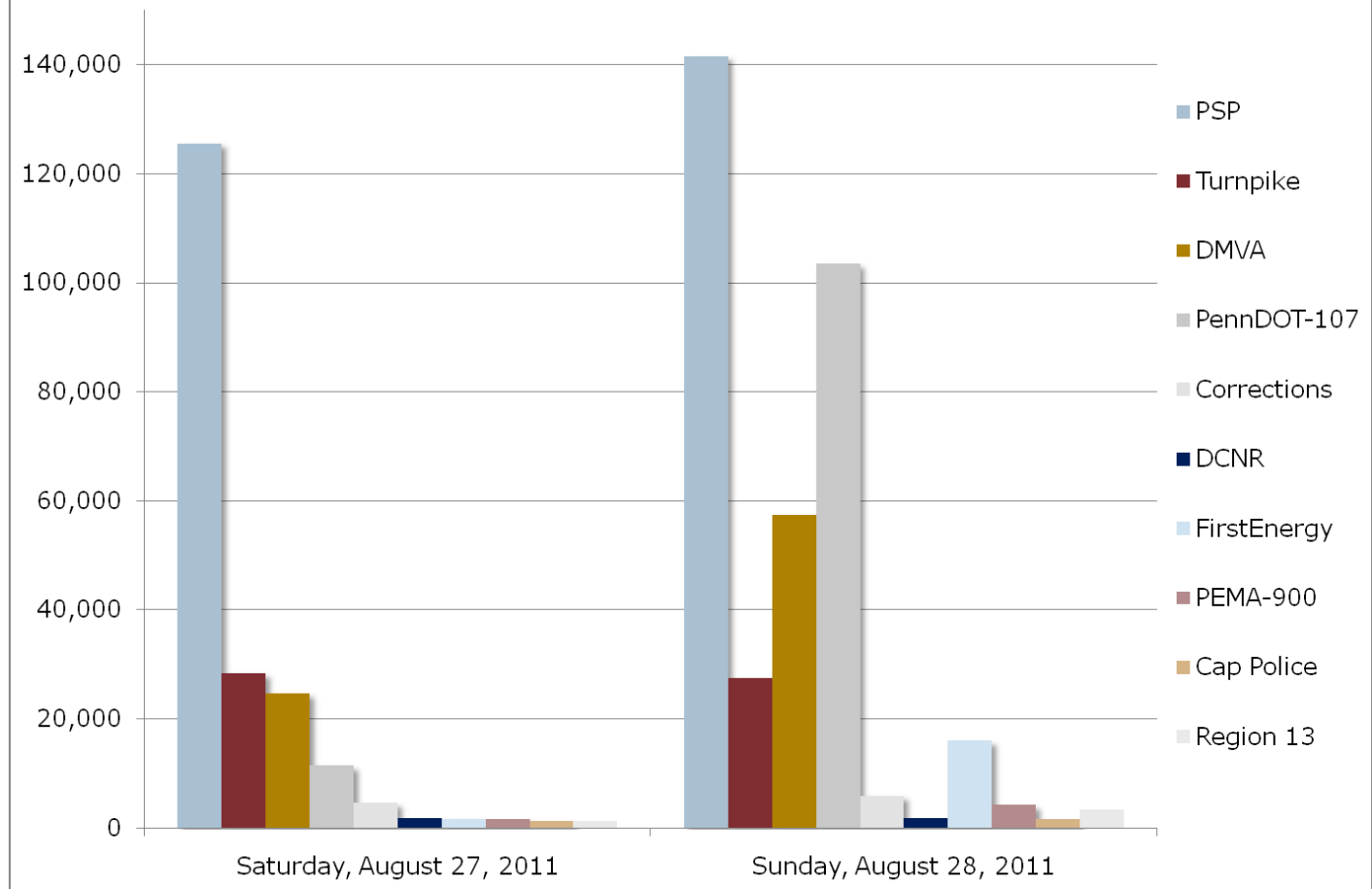


Hurricane Irene—PTTs by Agency

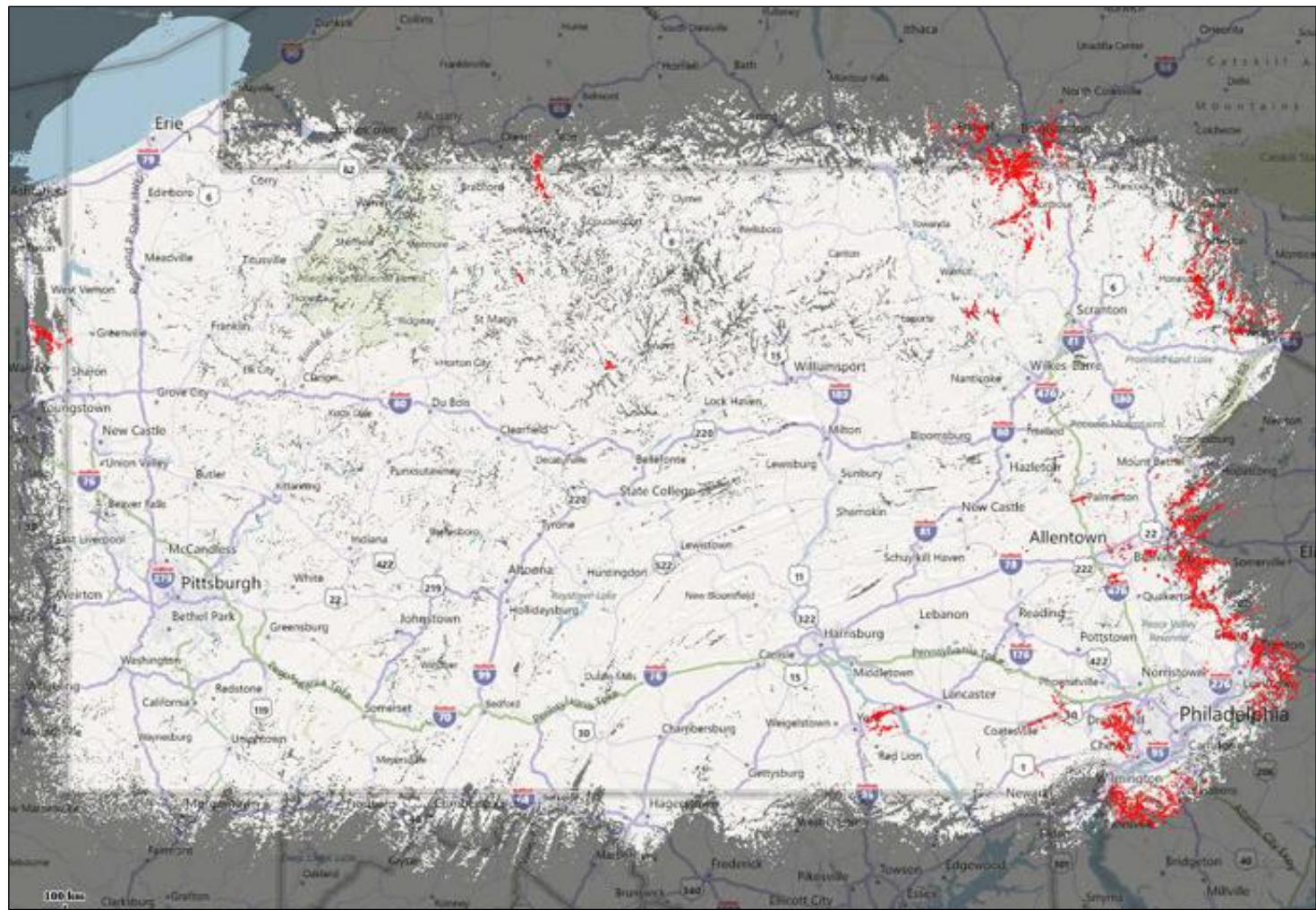


Hurricane Irene—Call Duration

Top 10: Call Duration, Irene



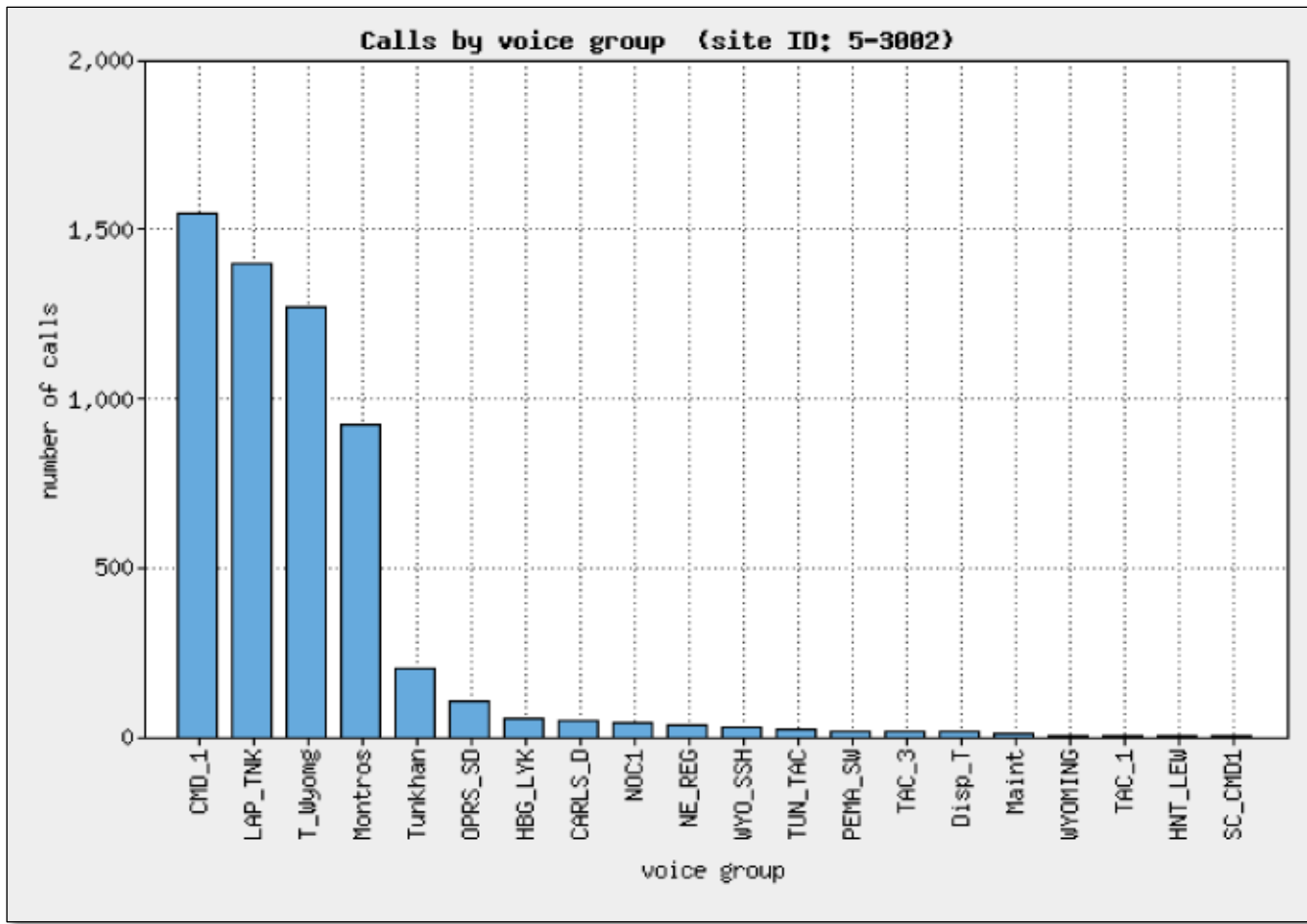
Storm Outage Areas—Monday 8/29



▶ Wyoming County COW...

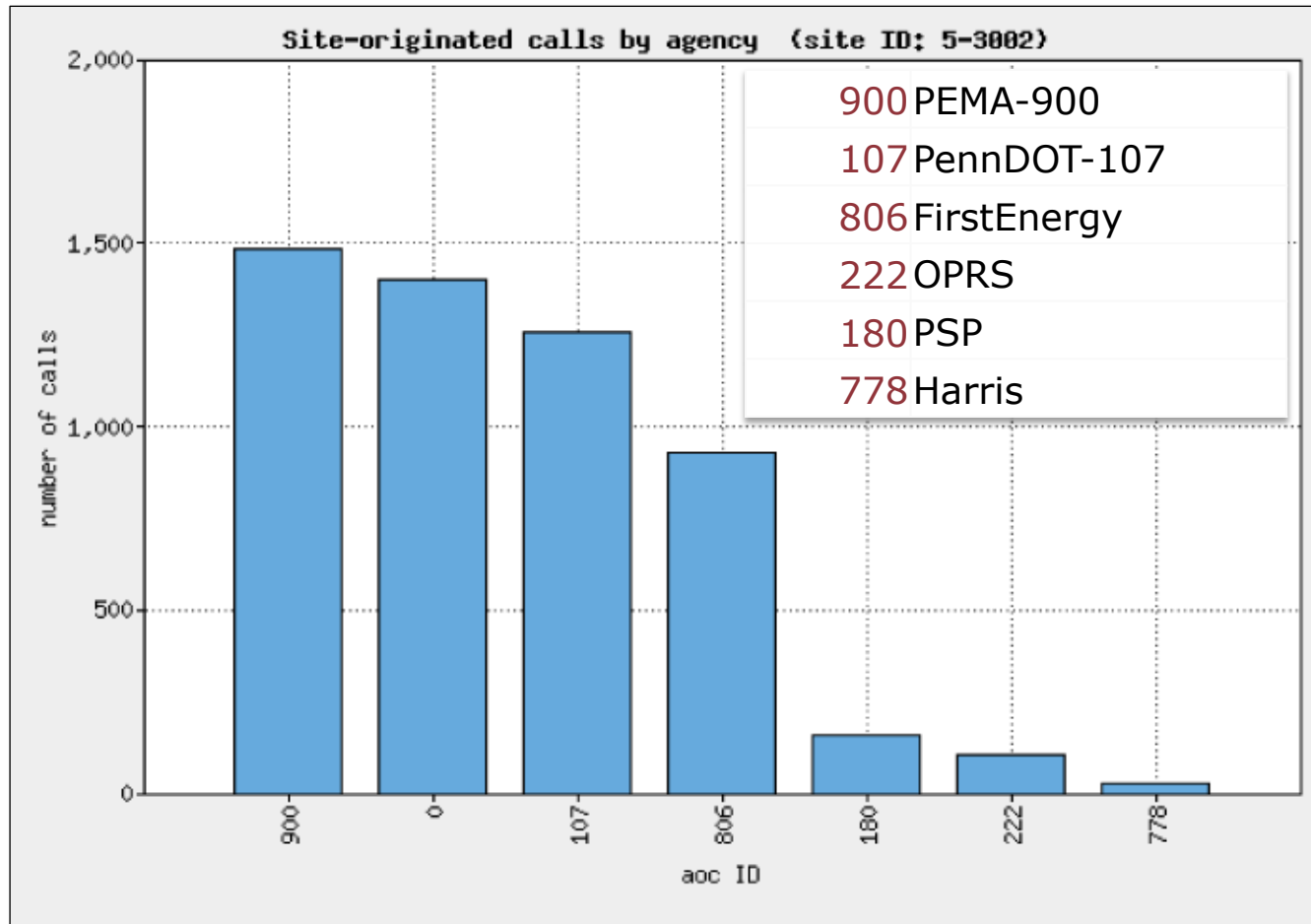
- Two- to three-week deployment expected
- First COW deployment to location without external electrical power source
- Running with on-board generator: about five days operation before refueling

Wyoming County COW...



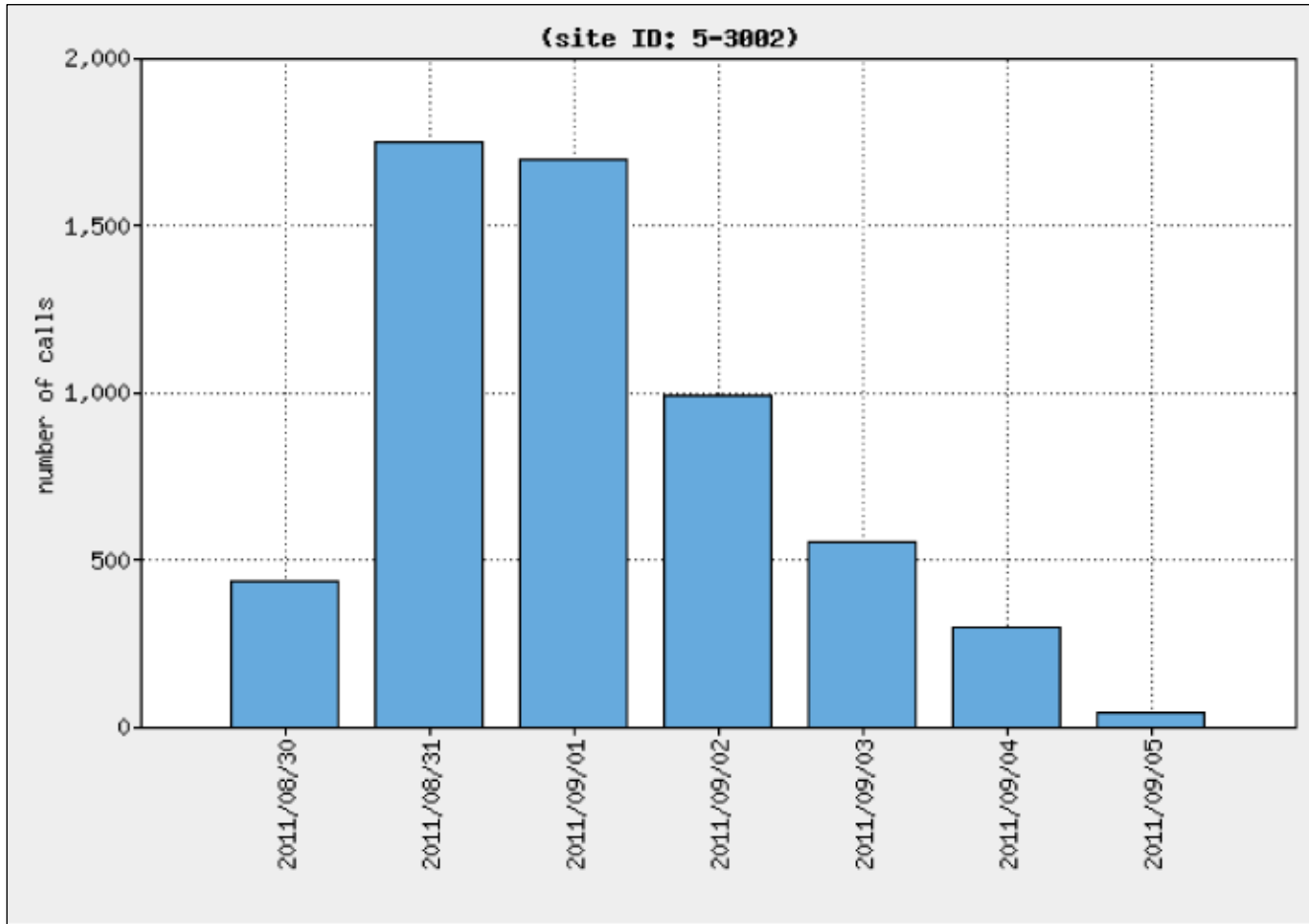
Calls by Voice Group

Wyoming County COW...



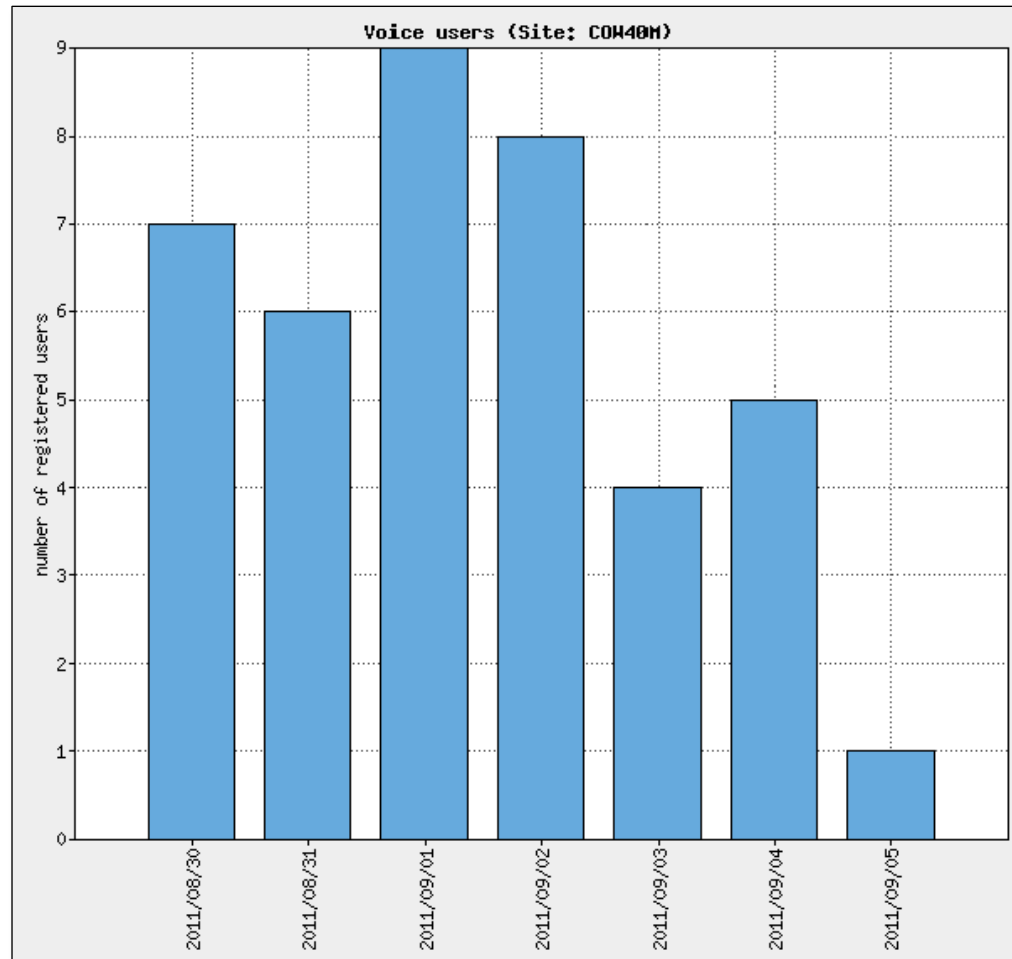
Calls by Agency

Wyoming County COW...



Call Activity by Date

Wyoming County COW



Maximum Users by Date

Topic:

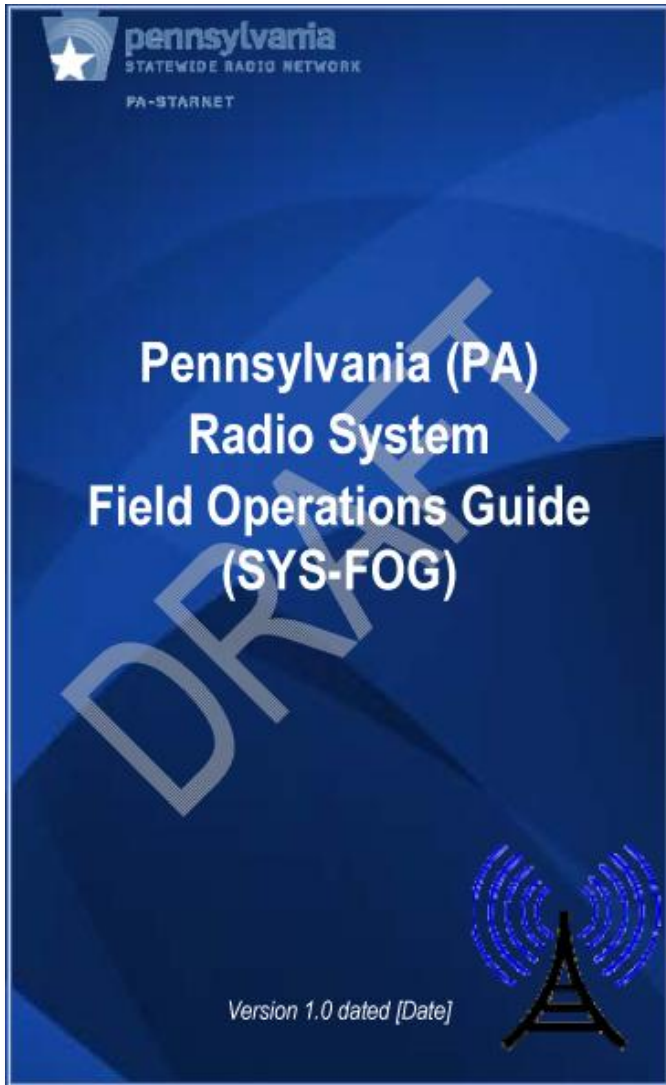
Training Videos Update Field Operations Guide

Shameka Gooding
Training Manager, OPRS

▶ Training Videos

- Approximately 50 short training videos
- Located on the **OA-Radio website**
- Training supplements
- Refresher training

▶ Field Operations Guide...



The Pennsylvania Radio System Field Operations Guide (FOG) is a collection of technical reference material to help establish and support communications during emergency incidents and planned events.

Field Operations Guide...

In the **FOG** you will find the following:

- Interoperability methods
- Operation standards
- How to acquire state resources
- Shared communications channels
- UHF and VHF overlay information
- Agency maps
- Forms

▶ Field Operations Guide

To review the draft **FOG** and offer comments, please contact the Training Manager:

Shameka Gooding
sgooding@pa.gov
717.346.8057

Topic:

Change Management Update

David Forster

System Test and QA Manager, OPRS

Change Management Status...

	Previous	Current
TOTAL CASES	193	216
Active	111	115
Resolved	82	101

Change Management Status...

	Previous	Current
Active Cases	111	115
Pending investigation	27	17
Under investigation	15	37
Completed pending customer verification of solution	11	6
SOLUTION: Engineering modifications requested	9	10
SOLUTION: Site already in 95% design	3	5
SOLUTION: New site required	46	40

Change Management Status...

	Previous	Current
New site	46	40
To be determined	5	7
In development	41	33
▪ Order to build issued	22	21
▪ In design or permissions	19	12

Change Management Status

	Previous	Current
FCC Filings	136	138
Done	133	133
Pending	3	5

Case Resolution Steps...

Investigating and resolving a Change Management case generally requires the following steps:

1. Plot the complaint on a map (GIS).
2. Determine predicted best server sites using EDX software.
3. Examine the best server sites' adjacency lists for reciprocity. (If **Site B** is in **Site A's** list, then **Site A** should also be in **Site B's** list—otherwise handoff doesn't work well in one direction or the other.)

Case Resolution Steps...

4. Drive the complaint route to see if the radio is handshaking to the best server. Look at adjacency lists again given the actual best servers.
5. High control block error counts or illogical site handoffs could point to interference. If so, start FCC filing.
6. Confirm that all receivers at all best server sites are operating.
7. Conduct Circuit Merit voice test through the complaint area.

Case Resolution Steps

8. Consider engineering changes to existing sites to improve coverage.
9. If a new site is necessary, design the site to best address the coverage complaint and best serve the network overall.
10. After a solution is in place, test the complaint area again with agency representatives to close the case.

Topic:

Special Event Support Aviation Communications

J Mark Wrightstone
Director, Customer Support, OPRS

Special Event Support

- Pocono 500, August 5–7
- Shanksville Flight 93 Anniversary Memorial, September 10–11

Aviation Communications

- All issues with third-party vendor radios resolved
- Codeplug for **DMVA** to program and test Technisonic aviation radios
- **OAG** continuing 700 MHz system testing
- One **PSP** Caravan fixed-wing aircraft installation completed
- **OAG** and **PSP** using Harris M7300 radios; **DMVA** using Technisonic

▶ Aviation Video

- Working with **OAG** to establish final downlink equipment configuration
- **PSP** waiting for delivery of equipment for installation at Paradigm Aerospace

Topic:

Two-Way Radio Equipment and Accessories Contract

Kay Shaffer

Chief, Enterprise Contract Administration, OIT

IT Procurement Organization

- Structure of the Bureau of IT Procurement
- Points of Contact

Contract Overview

- Current contract expires **September 30**
- New contracts going through the approval process
- Expected to be fully executed on or before **October 1**

Contract Information

- No longer a parent-child relationship
- Multiple statewide contracts
- Overview with all suppliers listed in each contract
- Mechanism available for adding new OEM products in existing categories

Topic:

800 MHz Frequency Rebanding Update

James DiMauro
RCC Consultants

Subscriber Programming

- The final rebanding subscriber programming cycle is now fully underway.
- Approximately 3,000 subscribers have been programmed, about 14% of the fleet.

Programming Progress

- Completion of the Second Touch is possible by the end of June 2012; **and**
- Harris has the resources to meet the target date; but
- at the current rate of spreadsheet submission, the June 2012 date **could be in jeopardy**.

Please step up the rate of accurate spreadsheet submission to OPRS!

FCC NARROWBAND MIGRATION SERVICES 480 DAYS & COUNTING

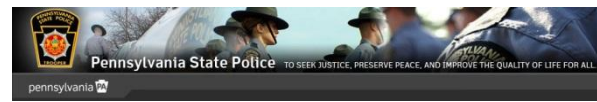


Photo: www.photobucket.com



ARE YOU READY?

Who's Impacted



VHF: 150-174 MHz UHF: 420-512 MHz



pennsylvania
farm show
complex &
expo center



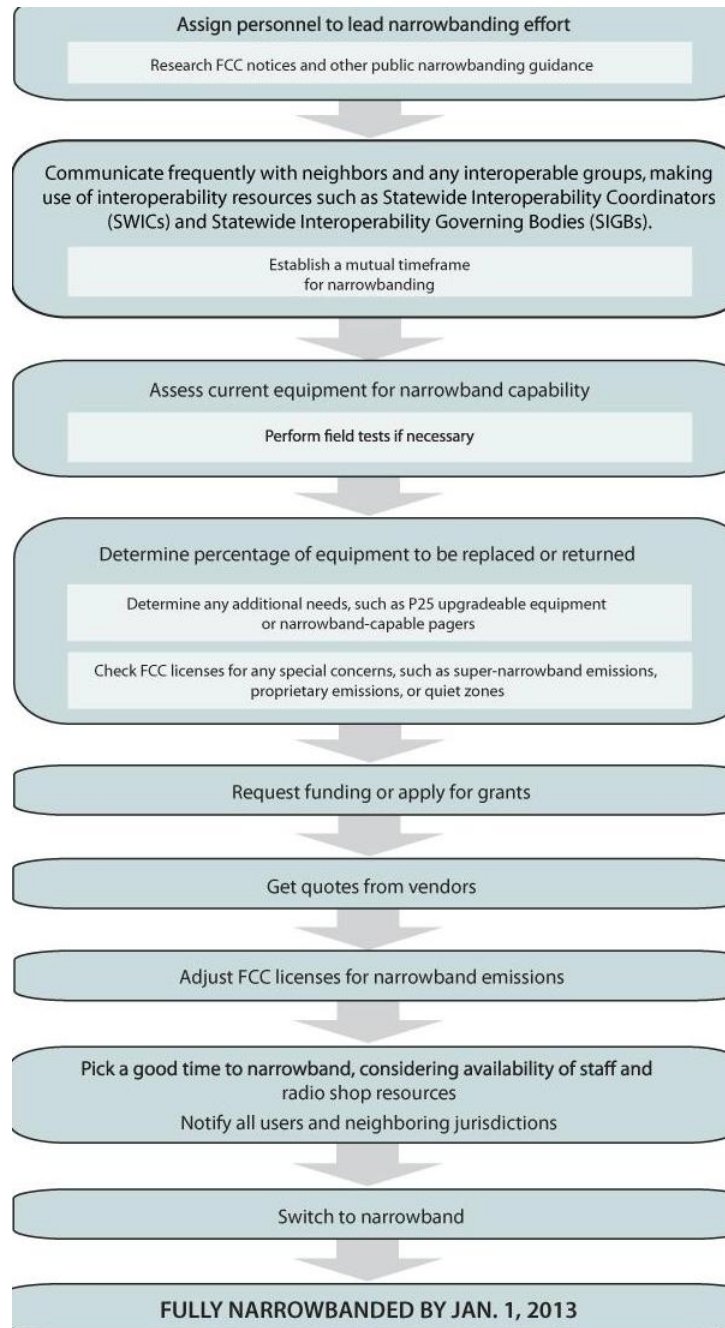
Timeline – 480 days and Counting...

- Complete Narrow Band Implementation by January 1, 2013
 - ▣ 480 days < 16 Months
 - ▣ One to two funding cycles for budgeting

- After January 1, 2013
 - ▣ Licensees not operating at 12.5 KHz efficiency will be in violation of the Commission's rules and could be subject to FCC enforcement action, which may include admonishment, monetary fines, or loss of license.



A General Step-by-Step process to complete a Full Transition to Narrow Band Compliant Communication



Items to Consider

- **Evaluate Coverage Models Before & After Narrowbanding**
 - **If coverage changes additional license modifications may be needed**
 - **Cost of any additional equipment**
- **Time**
 - **Inventorying Equipment**
 - **Modify FCC Radio License**
 - **6 – 8 weeks for Business & Industry**
 - **12+ weeks for Public Safety**
 - **Secure Funding**
 - **Purchase Equipment**
 - **Program Equipment**
 - **Coordinate Users**
- **Waivers**

NOW IS THE TIME TO START



TransCore State Contract

- Contract #: 4400004179 CN: 00028442
- Description: Statewide Radio Maintenance
- Category: IT & Communications Equipment & Services
- Supplier Number: 154839
- Commodity Specialist: John Goertz
- Agency: All Using Agencies



Next Steps & Questions

We're here to help guide you and your users through this process

<http://transition.fcc.gov/pshs/public-safety-spectrum/narrowbanding.html>

Vicky Church

Account Representative

Office: 717-671-7103 / Cell: 717-514-9754

