P25 Statewide System Update

May 1, 2008

State of Louisiana

800 MHz
Communications Network
Tower Sites

- 9,746 Users
- Built for Mobile Coverage
- Analog System
- Limited Data Capabilities
- Limited Bandwidth
- 46 Tower Capacity
- No Room for Expansion
- Manufacture Support For Key Components Will Soon Be Discontinued

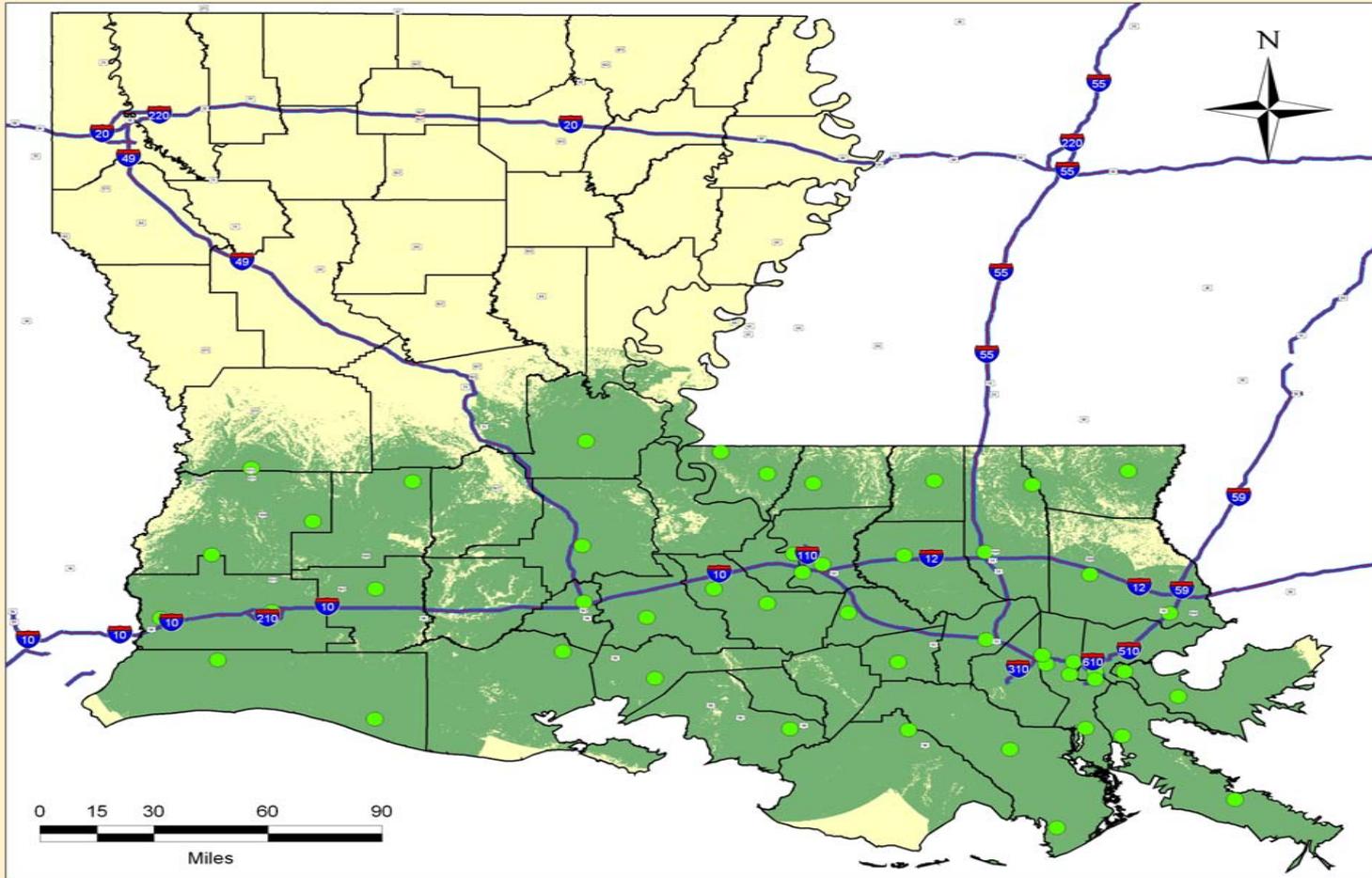# Infrastructure

47 Active Sites

PAN AM	LSU	LIVINGSTON	GRAY
BRIDGE CITY	ABBEVILLE	PARKS	Northern Simulcast 1 GRETNA
SLIDELL	BERWICK	MAGNOLIA	Northern Simulcast 2 GALLERIA
LaPLACE	HACKBERRY	SAGE HILL	Northern Simulcast 3 WDSU TV
BURAS	JEANERETTE	RAMAH	Southern Simulcast 1 St. ROSALIE
COVINGTON	ROCKEFELLER	AVOYELLES	Southern Simulcast 2 VENICE/REGGIO
SHERIDAN	JENNINGS	GREENSBURG	LAFITTE
BATON ROUGE	LAKE CHARLES	OAKDALE	KENNER
GEISMAR	LAFAYETTE	ROSEPINE	AIRPORT
ST. JAMES	VINTON	DeQUINCY	BURAS
LaROSE	WILMER	JACKSON	LEEVILLE
HAMMOND	WEST BATON ROUGE	IBERVILLE	

Current Coverage

95 % Area Reliability for On-Street Portables

Outbound Coverage (Current)

Sites being Added

95 % Area Reliability for On-Street Portables

Outbound Coverage (Sites Being Added)

700 MHz System Infrastructure Funding

- $15.9 Million – FEMA (09/2005)
- $17 Million - Region 1 COPS/HS (2006)
- $2.8 Million – LSP Budget (03/2006)
- $1.5 Million – SIEC (03/2007)
- $4 Million - Region 2 COPS Grant (10/2007)
- $3.98 Million - 11 Site Expansion, SIEC IP Based
- $8 Million - 22 Site Expansion, PSIC Grant

Pending Expansion
- $2.6 Million – 6 Site Expansion, LSP COPS Grant (Site Determination Being Made)
- $23 Million – 34 Site Expansion & Subscriber Units SIEC FY08-09 Budget Request (Site Determination Being Made)
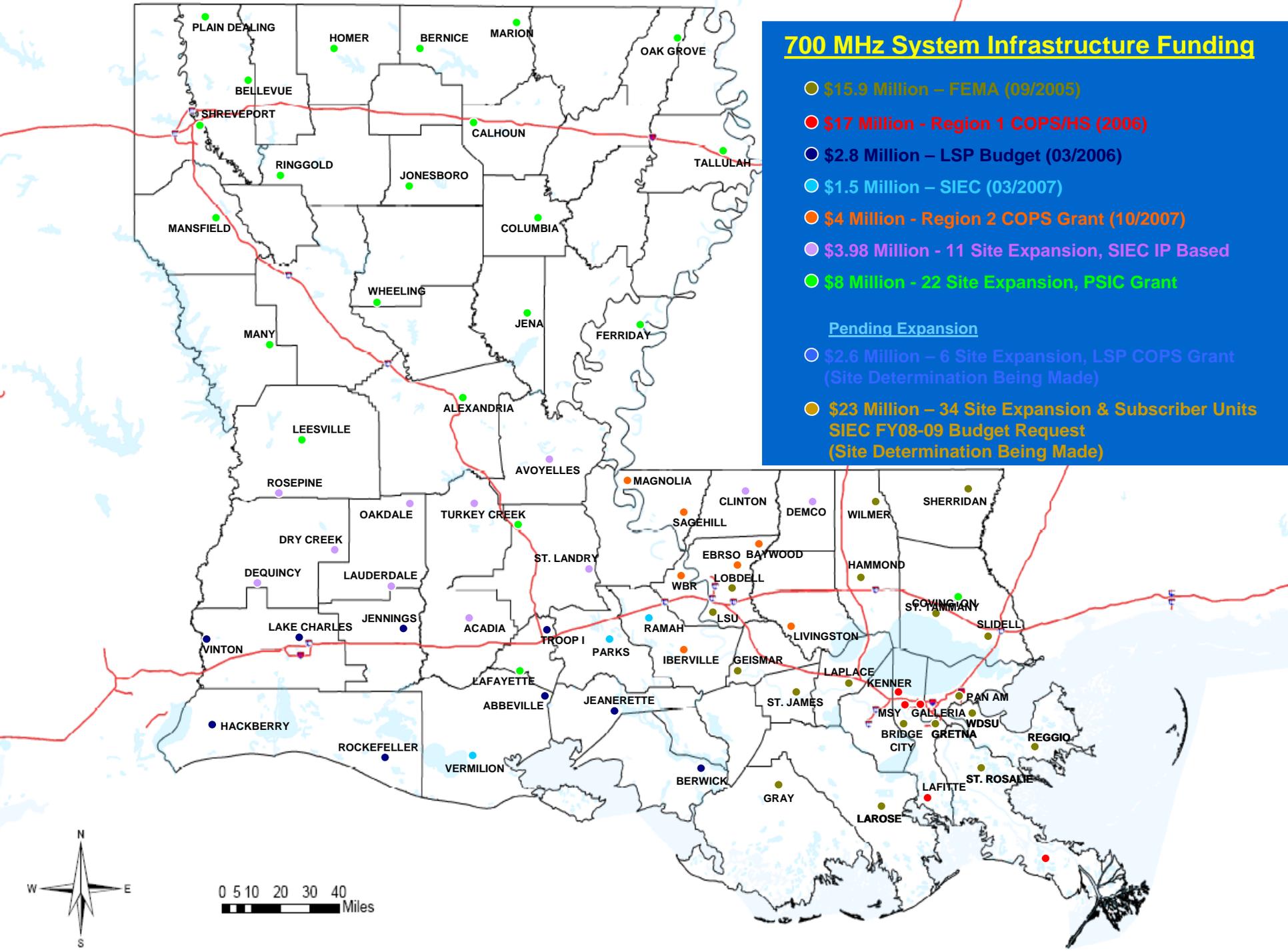
Radio Usage
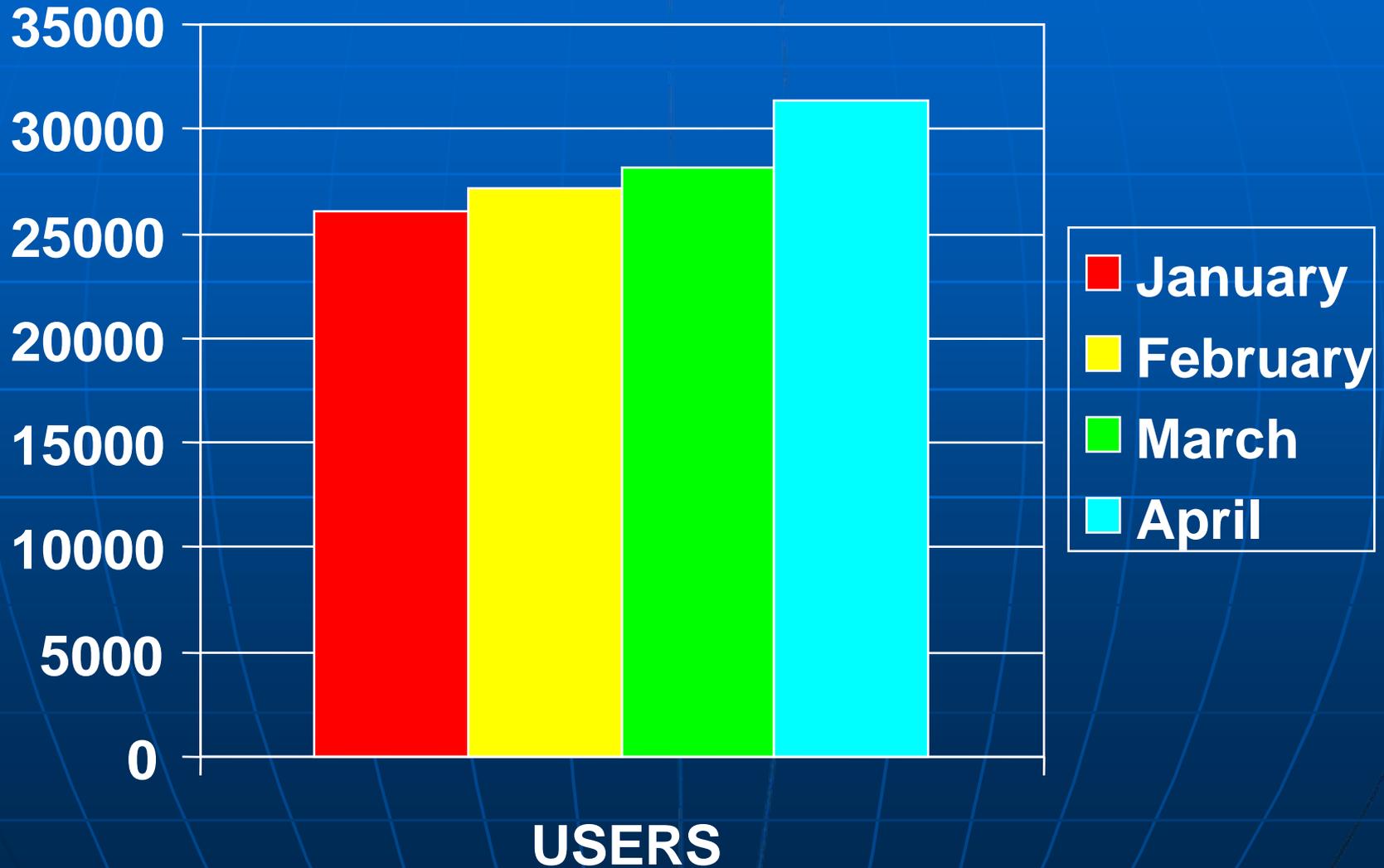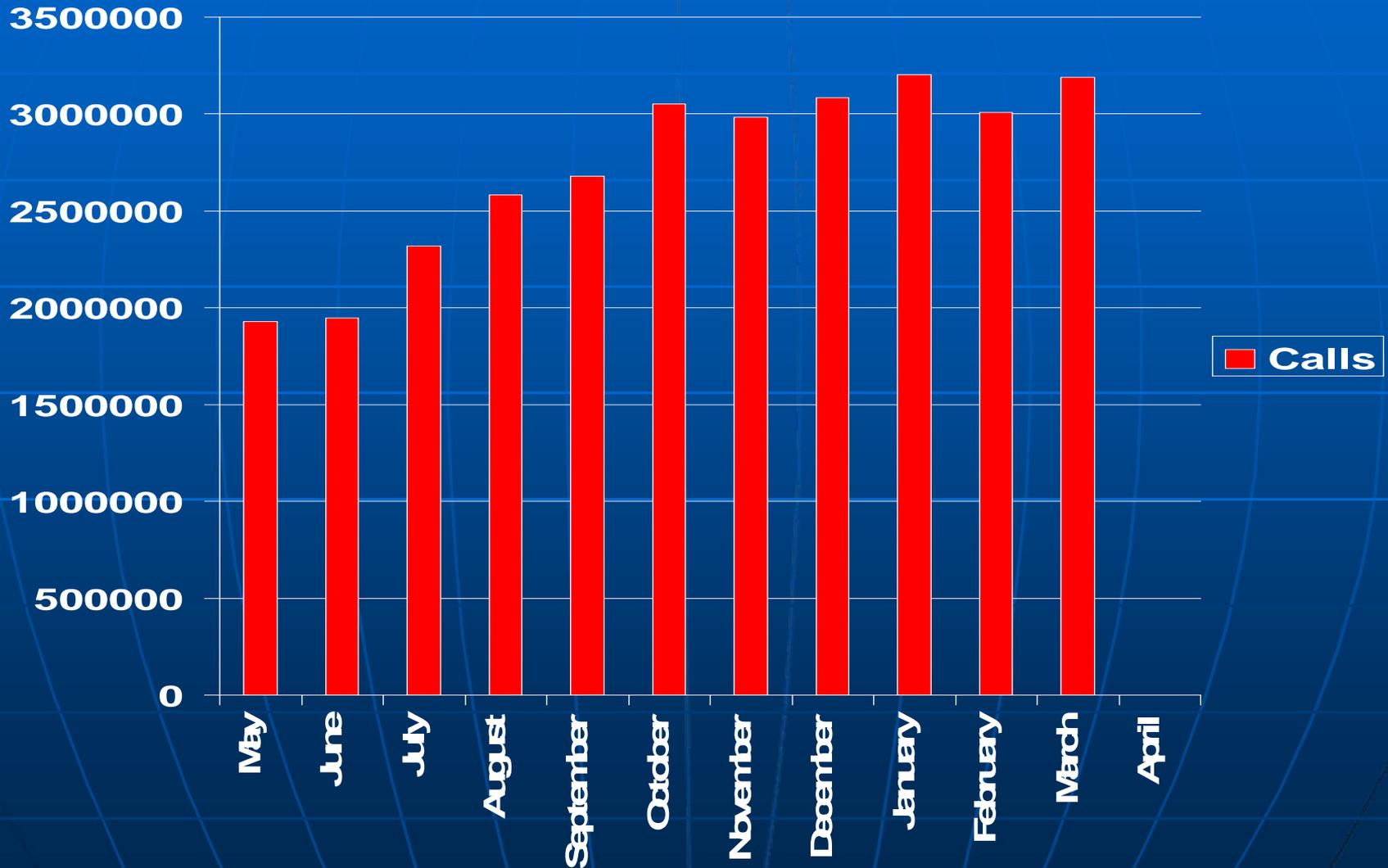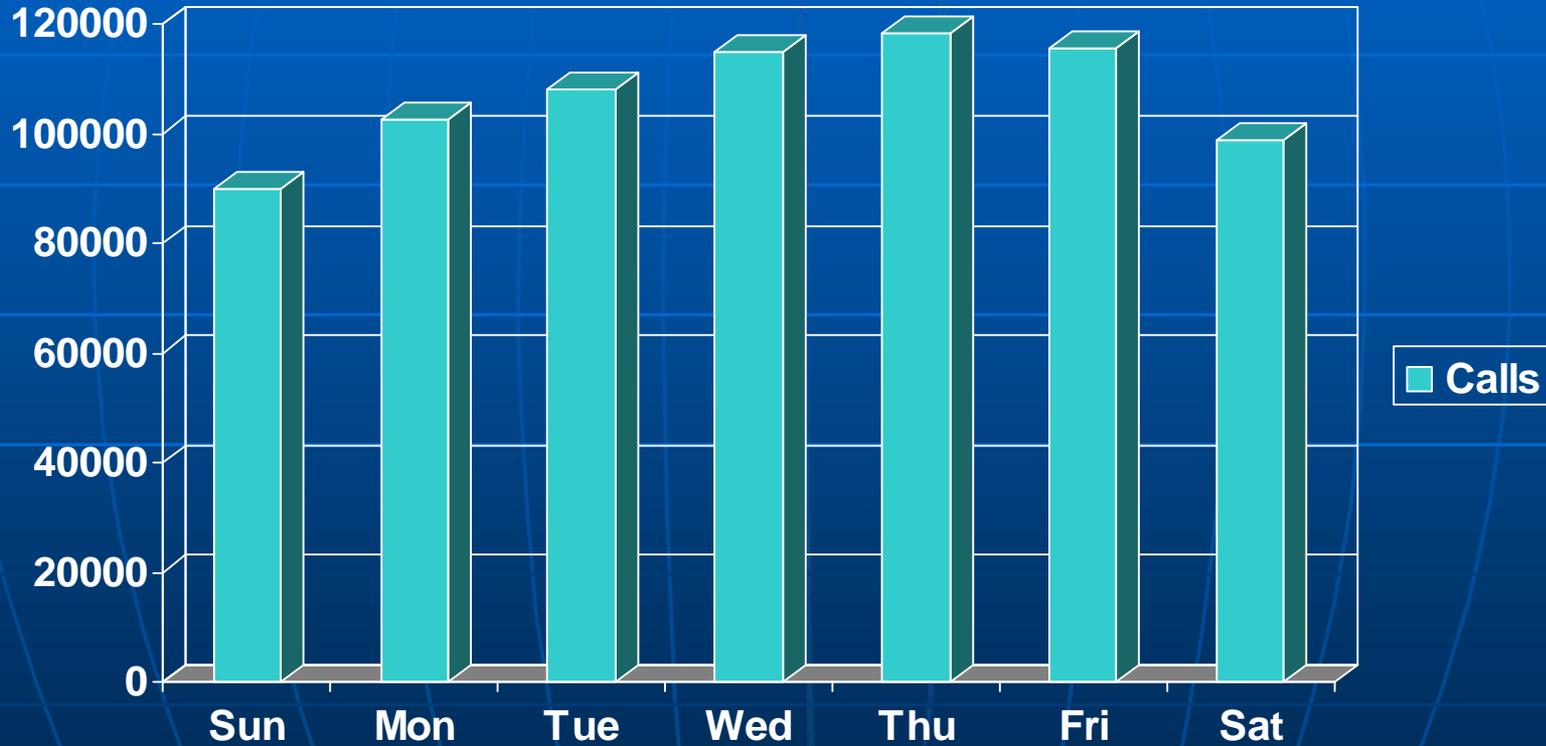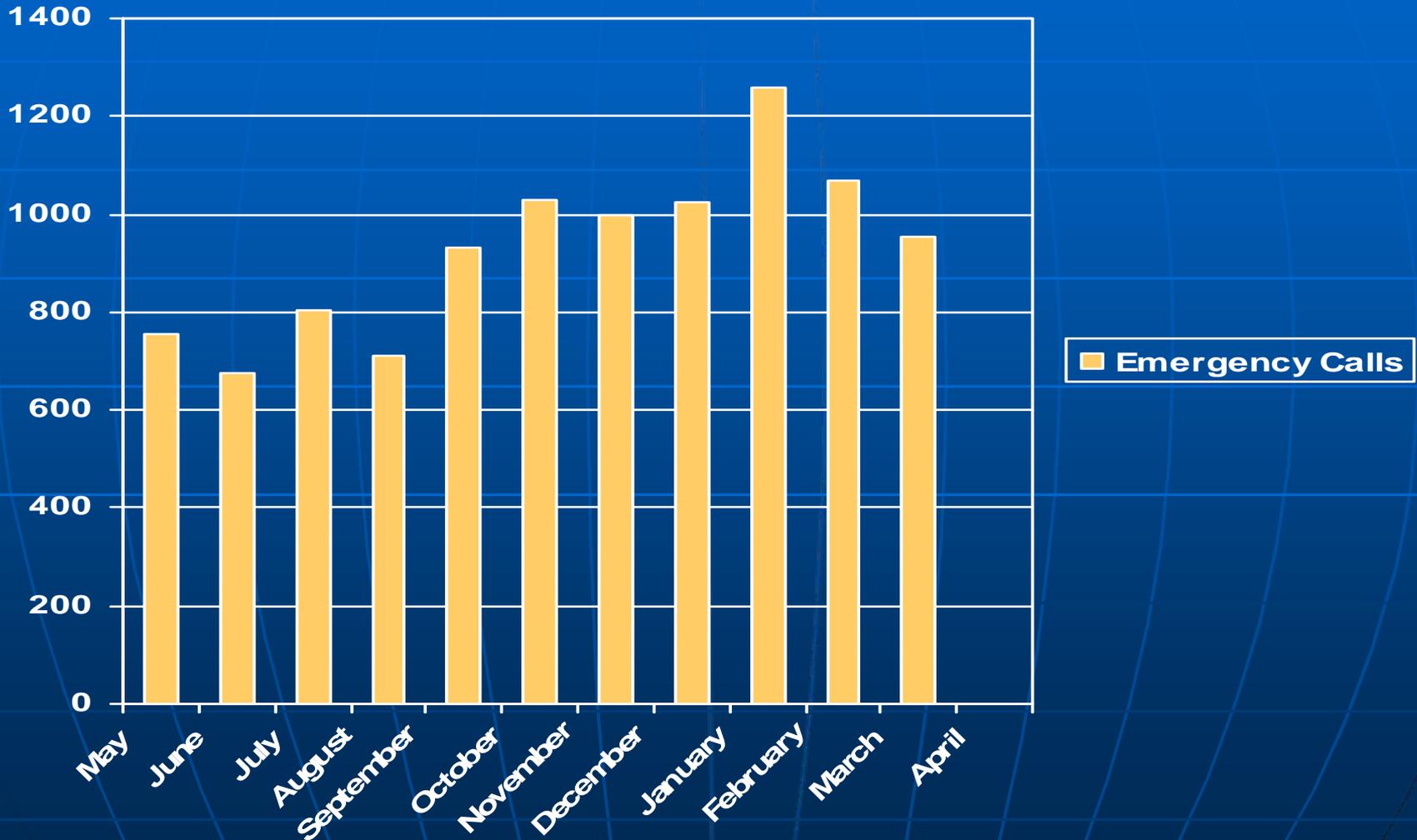
Sites & Connectivity Performance

- December 2007
  - 5 site issues
  - 1 Telco issue

- February 2008
  - 5 site issues
  - 3 Telco issue

- April 2008
  - 2 site issues
  - 1 Telco issue

- January 2008
  - 1 site issues
  - 0 Telco issue

- March 2008
  - 2 site issues
  - 1 Telco issue

Site Outage

- Period: Previous 5 Months

  - 12/19/07 Airport   3.5 Hrs.
    - Hardware Failure

  - 3/4/08 Hammond   18.5 Hrs.
    - Lightning Strike

System Access

State of Louisiana

Office of Homeland Security and Emergency Preparedness

Region Map

OEP Region 1
OEP Region 2
OEP Region 3
OEP Region 4
OEP Region 5
OEP Region 6
OEP Region 7
OEP Region 8
OEP Region 9

Region 7 Troop G — CADDO, BOSSIER, WEBSTER, CLAIBORNE, DESOTO, RED RIVER, BIENVILLE

Region 8 Troop F — UNION, MOREHOUSE, WEST CARROLL, EAST CARROLL, LINCOLN, OUACHITA, RICHLAND, MADISON, JACKSON, CALDWELL, FRANKLIN, TENSAS
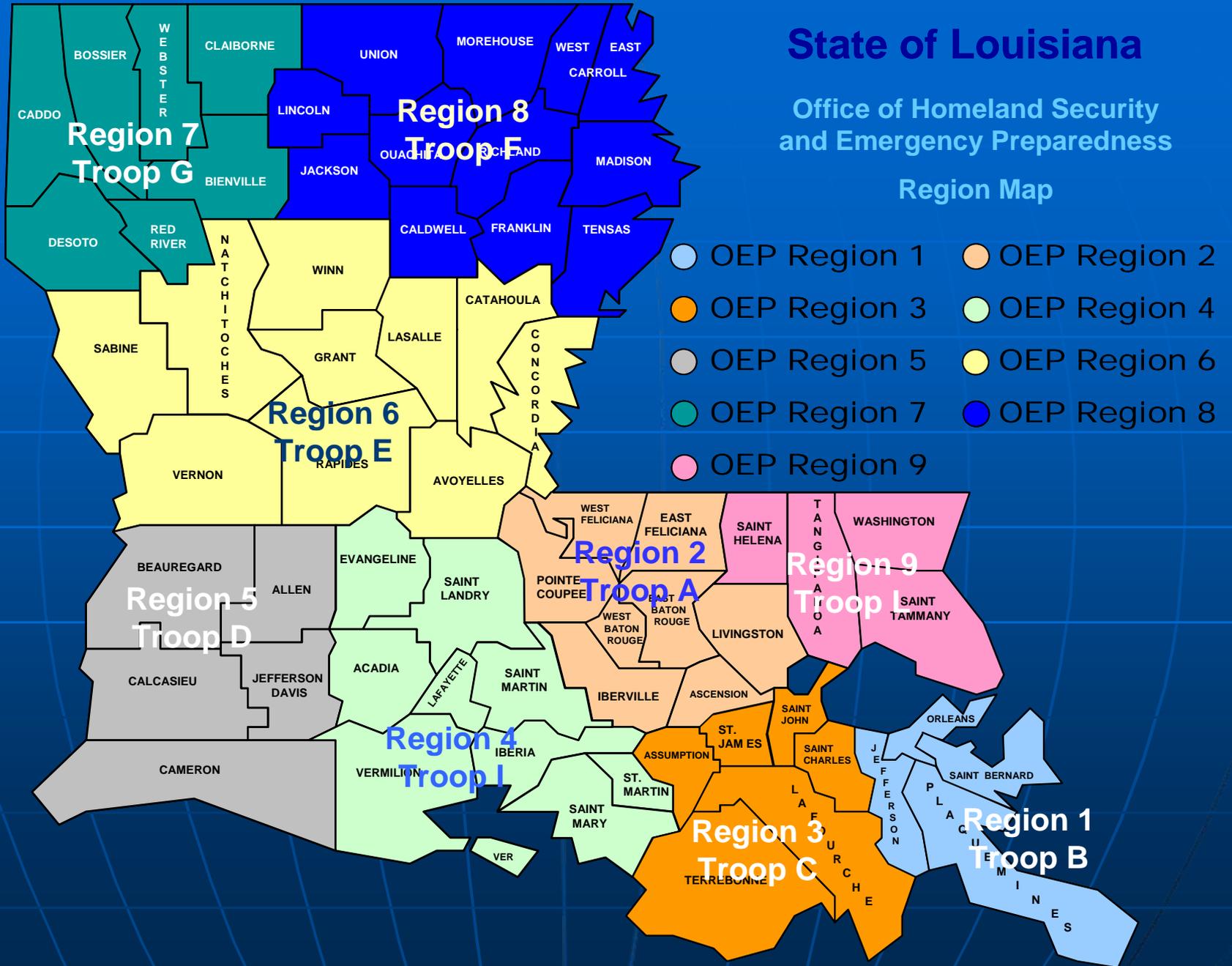
Region 6 Troop E — NATCHITOCHES, WINN, SABINE, GRANT, LASALLE, CATAHOULA, CONCORDIA, VERNON, RAPIDES, AVOYELLES

Region 5 Troop D — BEAUREGARD, ALLEN, CALCASIEU, JEFFERSON DAVIS, CAMERON

Region 2 Troop A — WEST FELICIANA, EAST FELICIANA, POINTE COUPEE, WEST BATON ROUGE, EAST BATON ROUGE, LIVINGSTON, IBERVILLE, ASCENSION

Region 9 Troop I — SAINT HELENA, TANGIPAHOA, WASHINGTON, SAINT TAMMANY

Region 4 Troop I — EVANGELINE, SAINT LANDRY, ACADIA, LAFAYETTE, SAINT MARTIN, VERMILION, IBERIA, ST. MARTIN, SAINT MARY, VER

Region 3 Troop C — SAINT JOHN, ST. JAMES, SAINT CHARLES, ASSUMPTION, LAFOURCHE, TERREBONNE

Region 1 Troop B — ORLEANS, JEFFERSON, SAINT BERNARD, PLAQUEMINES

700 MHz System & Region 5 Talkgroups

ZONE 4/700 *COORDINATION - 1	ZONE 5/700 *COORDINATION - 2	ZONE 6/700 *INTEROPERABILITY	ZONE 7/700 *RGION 5 INTEROPS-1	ZONE 8/700 *RGION 5 INTEROPS-2	ZONE 9/700 *NSPAC
CH. NAME	CH. NAME	CH. NAME	CH. NAME	CH. NAME	CH. NAME
*R1-COORDCALL	*R6-COORDCALL	*STATE-1	*ALLEN-1	*CAMERON-1	*NSPAC-1
*R1-COORDTK-1	*R6-COORDTK-1	*STATE-2	*ALLEN-2	*CAMERON-2	*NSPAC-2
*R1-COORDTK-2	*R6-COORDTK-2	*STATE-3	*ALLEN-3	*CAMERON-3	*NSPAC-3
*R2-COORDCALL	*R7-COORDCALL	*STATE-4	*ALLEN-4	*CAMERON-4	*NSPAC-4
*R2-COORDTK-1	*R7-COORDTK-1	*INTEROP-1	*BEAUREGARD-1	*JEFF DAVIS-1	*NSPAC-5
*R2-COORDTK-2	*R7-COORDTK-2	*INTEROP-2	*BEAUREGARD-2	*JEFF DAVIS-2	*NSPAC-6
*R3-COORDCALL	*R8-COORDCALL	*INTEROP-3	*BEAUREGARD-3	*JEFF DAVIS-3	*NSPAC-7
*R3-COORDTK-1	*R8-COORDTK-1	*INTEROP-4	*BEAUREGARD-4	*JEFF DAVIS-4	*NSPAC-8
*R3-COORDTK-2	*R8-COORDTK-2	*INTEROP-5	*CALCASIEU-1		
*R4-COORDCALL	*R9-COORDCALL	*INTEROP-6	*CALCASIEU-2		
*R4-COORDTK-1	*R9-COORDTK-1	*INTEROP-7	*CALCASIEU-3		
*R4-COORDTK-2	*R9-COORDTK-2	*INTEROP-8	*CALCASIEU-4		
*R5-COORDCALL		*INTEROP-9			
*R5-COORDTK-1		*INTEROP-10			
*R5-COORDTK-2					

Regional & State Interop	Parish Interop	NSPAC-700

P25 System Access Coordination

- SIEC has facilitated the build out of a statewide 700/800 MHz system with open access to all first responders.

- Agencies must have units that are Project 25 compliant with ability to operate on both 700 and 800 bands.

USER AGENCY ACCESS GUIDELINES

1. Submit **Agency Information** form.
2. Submit **Talkgroup Request**
3. Submit **Radio Serial #s / Aliases**

P25 System User Information Form

STATE OF LOUISIANA
P25 RADIO TRUNKING SYSTEM
USER INFORMATION FORM

COMPLETE ONE (1) APPLICATION PER AGENCY.

1. NAME OF AGENCY/DEPARTMENT/SECTION:

    CONTACT PERSON/TITLE:

    PHONE NUMBER#   FAX #

    MAILING ADDRESS:

    EMAIL ADDRESS:

If you would like your agency to receive radio system problem notifications, please provide email addresses below to which you would like to receive the notifications. This purpose would only be for Radio System Problem notifications.

EMAIL ADDRESS: EMAIL ADDRESS:

EMAIL ADDRESS: EMAIL ADDRESS:

2. DEPARTMENT INFORMATION:

    A. IMMEDIATE ACCESS: # OF PORTABLES   # OF MOBILES

    B. ANTICIPATED GROWTH WITHIN THE NEXT 1 YEAR: PORTABLES   MOBILES

    C. ANTICIPATED GROWTH WITHIN THE NEXT 5 YEARS: PORTABLES   MOBILES

    D. NUMBER OF TALKGROUPS NEEDED FOR YOUR AGENCIES PRIVATE USE:

3. DESCRIPTION OF DISPATCH FACILITIES:

    HOURS OF OPERATION

4. LIST THE NAMES AND TITLE OF ALTERNATE INDIVIDUALS AUTHORIZED TO REQUEST ANY INFORMATION OR RADIO IDENTIFICATION NUMBER: (PLEASE PRINT NAMES)

    SIGNATURE   DATE

    SIGNATURE   DATE

P25 System
Talkgroup Request Form

P25 System				
TALKGROUP REQUEST				
TALKGROUP OR MULTIGROUP ALIAS	**700 DECIMAL ID**	**700 HEX ID**		
Agncy-Dispatch1	PROVIDED BY DPS-RC *	PROVIDED BY DPS-RC *		
Agncy-Dispatch2				
Agncy-Swat1				
Agncy-Swat2				
Agncy-FireDisp1				
Agncy-FireDisp2				
Agncy-SO TG 1				
Agncy-SO TG 2				
Agncy-SO TG 3				

P25 System
Radio ID Request Form

P25 System

Radio ID Request Form

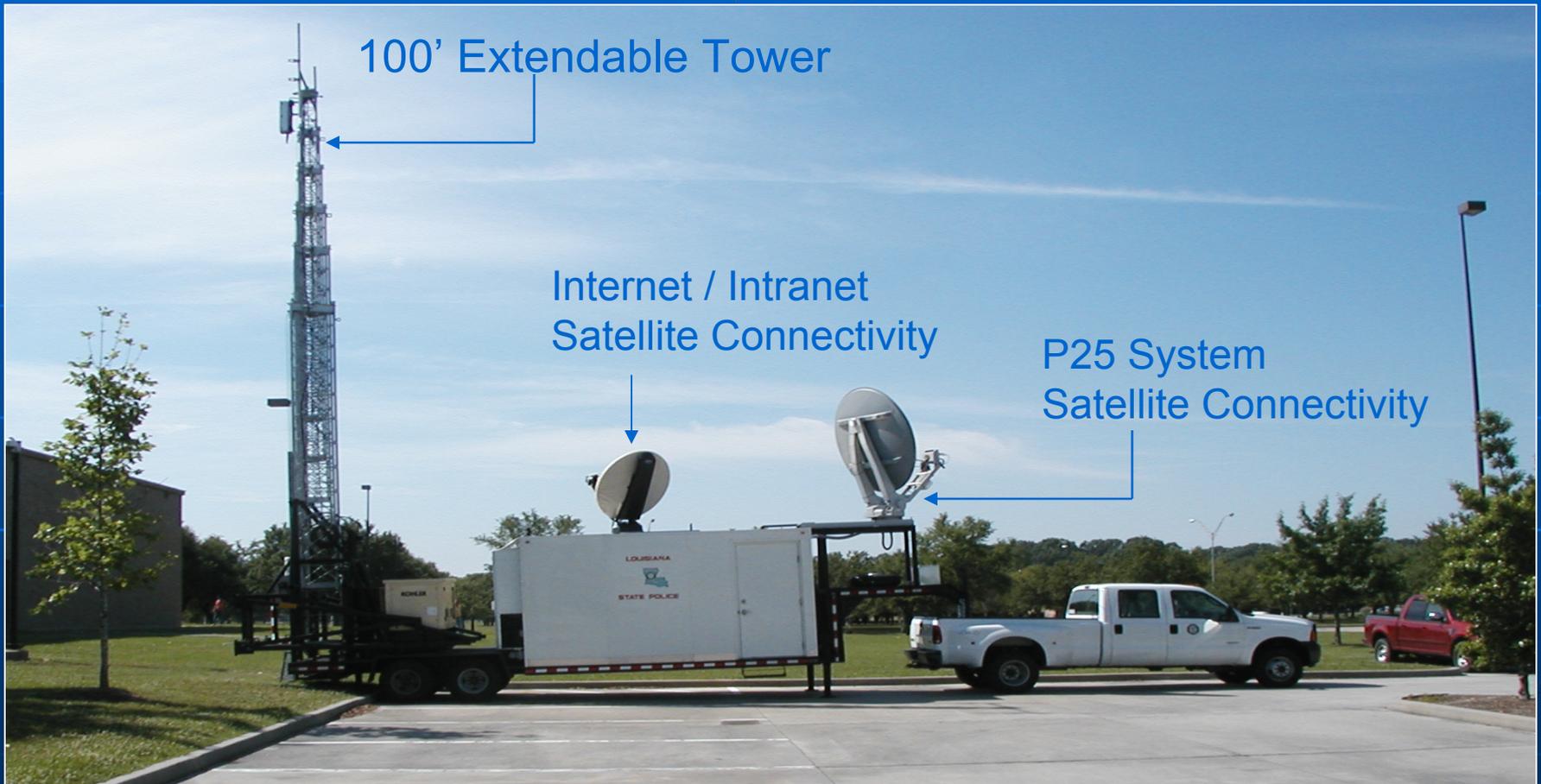| #	Radio Serial	Model	Model	Alias	P25 Hex	P25 Decimal
1	999BFG0000	XTS2500	MOTOROLA	HQ-789	PROVIDED BY DPS-RC *	PROVIDED BY DPS-RC *
2	999BFG0001	XTS2500	MOTOROLA	HQ-790		
3	999BFG0002	XTS5000	MOTOROLA	HQ-791		
4	999BFG0003	XTS5000	MOTOROLA	HQ-792		
5	8767B5004	EFJ-51SL	EF JOHNSON	HQ-793		
6	8767B5005	EFJ-51SL	EF JOHNSON	HQ-794		
7	8767B5006	EFJ5100	EF JOHNSON	HQ-795		
8	8767B5007	EFJ5100	EF JOHNSON	HQ-796		

*

Programming

Programming

- Programming of radios shall be arranged by the user agencies
- All radios shall be programmed with the system-wide common interoperable & coordination talk groups
- Programming Advanced System Keys (ASK) will be purchased by requesting agencies
- Request for another agency's Talk groups must be accompanied by Letter of Approval from respective agency
- No agency shall assign Talk group or Unit IDs
- No agency shall program any Talk groups assigned to another agency without written consent

DPS Radio Communications will provide fleet mapping

- User Security Group
- User "Talkgroup Prefix"
- Individual Radio IDs
- Individual Talkgroup IDs

New Title Slide

SIEC & LSP Mobile Communications Equipment Trailer (3 Total)

100' Extendable Tower

Internet / Intranet
Satellite Connectivity

P25 System
Satellite Connectivity

- 700 / 800 MHz P25 TRUNKED SITE
- 800 MHz MUTUAL AID REPEATERS
- VHF / UHF MUTUAL AID BASE STATIONS

- INTEROPERABILITY GATEWAY
- INTERNET & VOIP ACCESS

Strategic Technology Reserve

A variety of communication resources are available for immediate deployment in an emergency or major incident. These assets are available upon request by local and state agencies through Emergency Support Function (ESF) 2

- **Radio Caches**
  - SIEC (200) Portable Radios, Located in Baton Rouge at DPS Radio Communications

- **Mobile Communications Equipment Trailers**

  The trailers are equipped with 700/800 MHz P25 trunked site, 800 MHz mutual aid repeaters, VHF/UHF mutual aid base stations, interoperability gateway and internet and Voice-Over IP access.

  - 1- Located in Greater New Orleans Area
  - 1- Located in Ouachita Parish
  - 1- Located in Baton Rouge