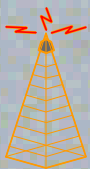


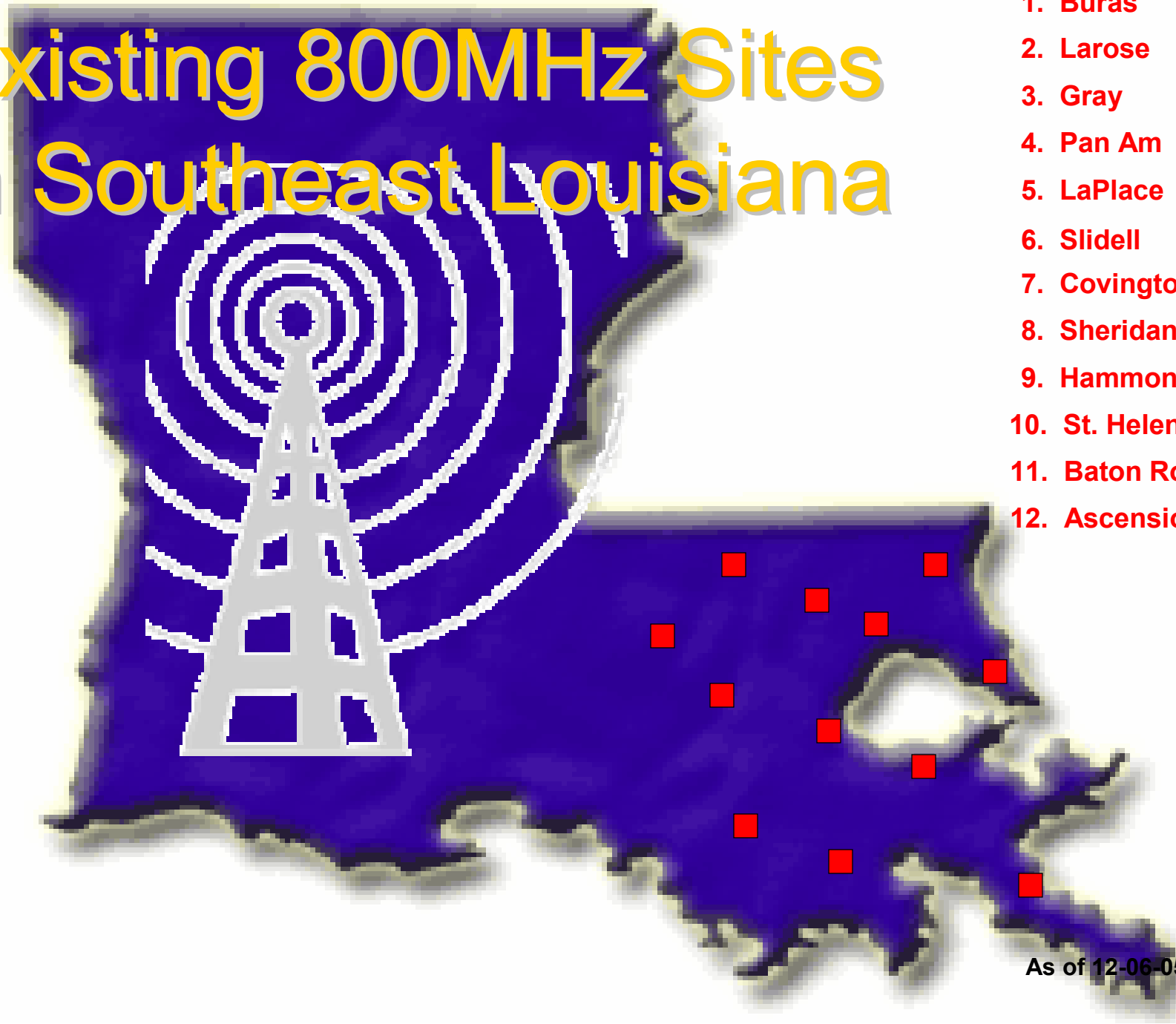
Emergency Communications During Hurricane Katrina



Louisiana State Police
January 30, 2006

Existing 800MHz Sites In Southeast Louisiana

1. Buras
2. Larose
3. Gray
4. Pan Am
5. LaPlace
6. Slidell
7. Covington
8. Sheridan
9. Hammond
10. St. Helena
11. Baton Rouge
12. Ascension



As of 12-06-05

Current 800 MHz System

- **Designed and Built for Mobile Radio Coverage**
 - Severely limits adequate hand-held portable and in-building coverage
 - Expansion not possible due to technology limits
- **Near the End of its Service Life**
 - Motorola no longer offering upgraded technology or repeaters
 - Motorola will discontinue technical support in approximately one year
- **Inadequate Frequency Allocation**
- **Capacity Limited**

Communications Failures During Hurricane Katrina

➤ State and Local Communications Systems Suffered Damage from:

- **Wind: Local Towers were Knocked Down**
- **Flood: Loss of T-1 Lines Severed Communication Links**
- **Loss of Electricity: Created Large Gaps in Overall Communications Footprint**
- **Fuel Supply: Back-up Generators Provided Temporary Electricity to Tower Sites. When Fuel Supply was Exhausted and could not be Replenished, Communications Failed**
 - **Accessibility: Several Tower Sites were Inaccessible and DPS Personnel were Unable to Initiate Repairs or Replenish Fuel Supply to Generators**

Communications Failures During Hurricane Katrina

(continued)

- **The State's 800 MHz Communications System and the Commercial Communications Networks Were Overwhelmed by Tremendous Amounts of Emergency Responder Traffic**
- **Impaired Operability did not Allow Interoperability**
- **Large Area Outages Prevented Re-engineering/Re-routing Options**

Communications Solutions During Hurricane Katrina

- **DPS Personnel Responded Quickly and Were Able to Restore Limited Communications in the Area Through the Use of Satellite Dishes, Spare Repeaters, ACU-1000 Devices and Temporary Microwave Links**
- **Portable Radio Tower and Mobile Command Post Were Deployed to the New Orleans Area and Aided in Communication Efforts**
- **Rapid Installation of a 700 MHz System in Plaquemines and St. Bernard Parishes**

Communications Solutions During Hurricane Katrina

(continued)

- **Rapid Restoration of the Current 800 MHz Communication System**
- **DHS / NORTHCOM Support Provided Satellite Communication Capabilities**
- **Nextel Provided Additional Communications Capabilities with Cellular Service**
- **MCI and AT&T Provided Trailers to Aid in Establishing Communications**

Communications Solutions During Hurricane Katrina

(continued)

- **Satellite and Microwave Back Haul Was Installed to Replace Lost Commercial T-1 Support**
- **Portable Satellite Telephones Delivered to Several Troops in the Effected Areas**
- **State Police Mobile Transmitter Site Deployed in the New Orleans Area**

Communications Solutions During Hurricane Katrina

(continued)

- **Installed Temporary Communications Repeaters in Plaquemines Parish**
- **Installed Temporary Transmitter Site in St. Bernard Parish Along with 330 Portable Radios for Local Use**
- **Temporary Microwave Links Replaced Some of the Lost T-1 Lines**
- **Installation of Integrated Portable Cellular Network**

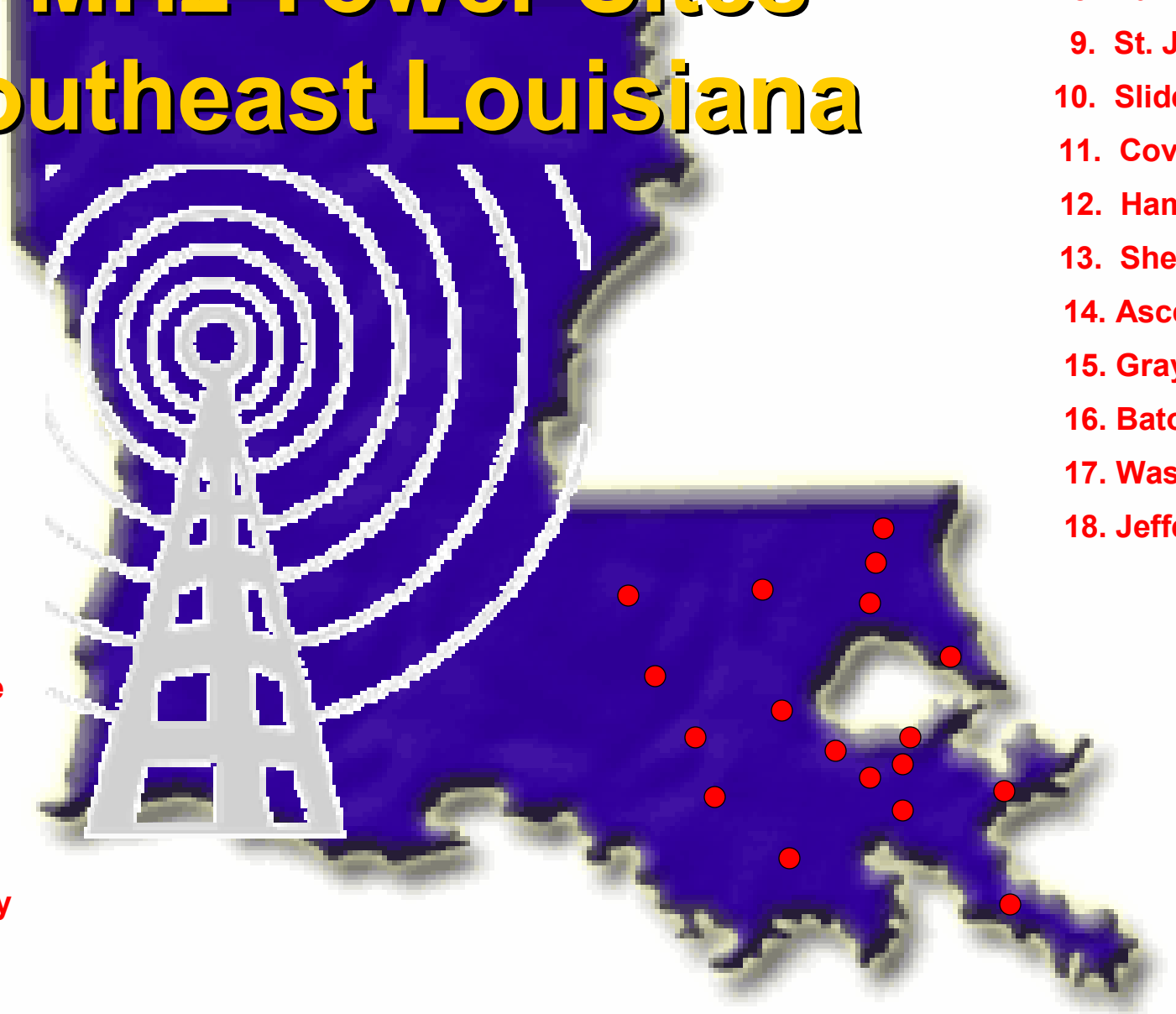
Interim Interoperability Solutions

- **FEMA Issued a \$15.9 Million Purchase Order to Motorola following Hurricane Katrina to Repair and Augment the Current Infrastructure in Southeast Louisiana**
- **FEMA Funded a \$5 Million Purchase of Mobile and Portable Radios for St. Bernard and Plaquemines Parishes**
 - **Insufficient to Outfit all Emergency Responders in the Affected Area**

700 MHz Tower Sites In Southeast Louisiana

1. Buras
2. St. Rosalie
3. Reggio
4. Cox
5. Pan Am
6. Bridge City
7. Larose

8. LaPlace
9. St. James
10. Slidell
11. Covington
12. Hammond
13. Sheridan
14. Ascension
15. Gray
16. Baton Rouge
17. Washington
18. Jefferson



The background of the slide is the official seal of the Louisiana State Police. It features a central figure of a pelican with its wings spread, holding a golden staff. The pelican is set against a circular background with a sunburst at the bottom. Below the circular emblem is a white banner with the words "UPON JUSTICE AND CONFIDENCE" written in a serif font. The entire seal is centered on a blue background.

Questions?

LTC Joseph Booth

Louisiana State Police