U.S. Coast Guard
Sector Lower Mississippi River

Keeping commerce flowing on the Lower Mississippi River as well as the Arkansas, Ouachita, Black, White, Red & Yazoo

2 Auction Avenue, Memphis, TN

Commander P.J. Maguire,
Sector Commander
Since New Year’s Eve
Coast Guard Cutter KANAWHA
Coast Guard Cutter KANKAKEE

U.S. COAST GUARD

Coast Guard Cutter KANKAKEE
25-ft Defender “B” Class Boats

- Length: 25 ft
- Beam: 8’ 6”
- Twin 225 hp Hondas
- Speed: 45+ Kts

Sector Lower Mississippi River
Nationwide Coast Guard Projects

- RESCUE 21
- DEEPWATER
INTRODUCING

U.S. COAST GUARD

RESCUE 21

SAVING LIVES IN THE 21st CENTURY
What is Rescue 21?

- Rescue 21 is an advanced command, control, and communications system that will improve the ability of the Coast Guard to assist mariners in distress and save lives as well as heighten Homeland Security measures.

- The Coast Guard’s short-range communications system (VHF).

- Provides the communications infrastructure for all Coast Guard Missions
  - Search and Rescue
  - Marine Safety
  - Law Enforcement
  - Environmental Protection
  - Homeland Security
Incorporates direction-finding.

Vessel in distress, this is the Coast Guard...

Response units are en route...

Vessel in distress, this is the Coast Guard...

Rescue 21
Direction finding equipment helps determine Latitude and Longitude.

I have the vessel in sight...

Mayday
Mayday
Mayday
Enhanced Call Clarity

New Communications Tower sites chosen for optimal clarity
Portable Towers allow restoration of communications during emergencies or natural disasters.
### Proposed R21 GSS Deployment Schedule

**Begin/End Dates By Region**

**Great Lakes**
- Buffalo, NY 2011-11
- Detroit, MI 2011-11
- Grand Haven, MI 2011-11
- Milwaukee, WI 2011-11
- Sault Ste. Marie, MI 2009-11

**North East**
- Portland, ME 2007-10
- SW Harbor, ME 2007-10
- Boston, MA 2007-10
- Woods Hole, MA 2007-10
- Moriches, NY 2005-07
- New York, NY 2005-07
- Long Is Sound, NY 2005-07
- Atlantic City, NJ 2005
- Eastern Shore, MD 2005

**Mid Atlantic**
- Philadelphia, PA 2005-08
- Baltimore, MD 2005-08
- Hampton Roads, VA 2005-08
- Cape Hatteras, NC 2006-09
- Fort Macon, NC 2006-09

**South East**
- Charleston, SC 2006-09
- Mayport, FL 2005-07
- Miami, FL 2005-07
- Key West, FL 2005-07

**Gulf Coast**
- New Orleans, LA 2006-09
- Galveston, TX 2005-07
- Corpus Christi, TX 2005-07
- Mobile, AL 2004-06
- St. Petersburg, FL 2004-06

**Western Rivers**
- Ohio River Valley 2009-11
- Upper Mississippi 2009-11
- Lower Mississippi 2009-11

**OCONUS**
- Caribbean (PR) 2009-11
- Guam 2009-11
- Hawaii 2009-11
- Juneau, Kodiak, Valdez, AK 2007-11
- Astoria, OR 2005-08
- North Bend, OR 2005-08
- Portland, OR 2005-08
- Humboldt Bay, CA 2007-10
- San Francisco, CA 2007-10
- LA/Long Beach, CA 2007-10
- San Diego, CA 2007-10
- Seattle, WA 2004-06
- Port Angeles, WA 2004-06
- Buffalo, NY 2010-11
- Detroit, MI 2010-11
- Grand Haven, MI 2006-11
- Milwaukee, WI 2006-11
- Sault Ste. Marie, MI 2009-11

**West Coast**
- Astoria, OR 2005-08
- North Bend, OR 2005-08
- Portland, OR 2005-08
- Humboldt Bay, CA 2007-10
- San Francisco, CA 2007-10
- LA/Long Beach, CA 2007-10
- San Diego, CA 2007-10
- Seattle, WA 2004-06
- Port Angeles, WA 2004-06

**Note:** **IOC:** Initial Operating Capability, **LRIP:** Low-Rate Initial Production, Others are Full Production, with Full Operating Capability 2011
Deepwater System - Assets

- Fast Response Cutter (FRC) (Under Contract) [58]
- Offshore Patrol Cutter (OPC) (Under Contract) [8]
- National Security Cutter (NSC) (Under Contract) [8]
- Short Range Prosecutor (SRP) (Under Contract) [91]
- Long Range Interceptor (LRI) (Under Contract) [33]
- Maritime Patrol Boat (WPB) (Under Contract) [8]
- Maritime Patrol Aircraft (MPA) CASA 235-300M (Under Contract) [36]
- HH-60J "Jawhawk" Medium Range Recovery Helicopter (MRR) [36]
- HV-911 Eagle Eye Tiltrotor VUAS (Under Contract) [45]
- MH-68A HITRON Armed Interdiction Helicopter (Under Contract) [0]
- Long Range Surveillance Aircraft (HC-130) [6 JPs – 16 Hs]
- High Altitude Unmanned Air Vehicle (HAUAV) [4]
- Mult-Mission Cutter Helicopter (MCH) (Under Contract) [95]
NSC with Complement of Short Range Prosecutor (SRP), Long Range Interceptor (LRI), Vertical Takeoff Unmanned Air Vehicle System (VUAS), MH-65C Multi-Mission Cutter Helicopter (MCH), and C4ISR.

National Security Cutter (NSC) Bertholf (WMSL 750)
HH-65C

- 21 HH-65C conversions are underway at ARSC
- 3 conversion at the AEC Mississippi facility (AEC MS). 11 total aircraft under contract
- 14 aircraft have been delivered
  - Five to CGAS Atlantic City
  - Five to CGAS Savannah
  - Three to CGAS Miami
  - One to ATC Mobile
- All HH-65s to receive AUF capability
- Initial phase continues with long-term plan to convert all of HH-65 to MCH
- After conversion the new designation will be MH-65C

Normal PDM line would have 5-6 aircraft in the same area. 18 aircraft conversions are underway.
The Coast Guard is the one organization that straddles the seam between the twin mission areas of homeland security and homeland defense.

It is at the confluence of Coast Guard authorities, law-enforcement competencies, interagency experience, and military functionality where threats can be identified and dealt with.
What coast are you guarding?
How the Coast Guard came to the Rivers

- **August 7, 1789**, Ninth Act of the First Congress: An Act for the Establishment and support of Lighthouses, Beacons, Buoys, and Public Piers. “…for rendering the navigation thereof easy and safe…” U.S. Lighthouse Service

- **1837**: after many boiler explosions, Congress passed an act “for the better security of the lives of passengers.” Steamboat Inspection Service

- **1881**: Louisville Lifesaving Station commissioned

- **1915**: Revenue Cutter Service (1790) and Life-Saving Service (1848) were combined to form the Coast Guard

- **1939**: Lighthouse Service assimilated

- **1946**: Steamboat Inspection Service assimilated
Homeland Security in the Heartland
Maritime Security

- Security Assessments and Plans
  - Vessels
  - Facilities
  - Port Areas
- Goal is to Reduce Vulnerabilities
The following steps will guide you through the MSRAM assessment and analysis processes. As you click on the buttons in each of the boxes below, you will be taken to a screen to accomplish the objectives outlined in the description.

1. List Targets
   The first step in the assessment process is to list all of the targets within your AOR. Once all of your targets have been entered, click the "Done" checkbox and proceed to the next step. If necessary, you can add targets to the list later.

2. Score Maximum Consequence
   The second step in the assessment process is to score the consequence potential of each target assuming total destruction at the worst place and time. Once you have scored every target, click the "Done" checkbox and proceed to the next step.

3. Score Scenarios
   The final step in the risk assessment process is to perform a detailed scenario risk analysis for the targets that meet or exceed the target minimum consequence threshold. Once you have analyzed every scenario, click the "Done" checkbox and proceed to the next step to view and analyze the results of the assessment.

4. Analyze Results
   Once all of the assessment steps have been performed, you can view the results. The Results Center provides a powerful and flexible interface enabling you to slice and dice the results based on any number of inputs including the capability to export to Excel for further analysis. You will also have the ability to provide a COTP ranking for each of the targets, where the scenario carries the highest RIN, onto rank COTP for all scenarios.

5. Data Validation
   Once you are satisfied that all of your COTP targets have been entered, scored and ranked, push this button for COTP validation and to describe your process.
Intentional or Disastrous Disruptions

- Attacks on critical infrastructure would result in substantial delays
  - Locks and Dams
  - Bridges
  - Nuclear Plants along rivers
  - Fleets of barges

- Earthquake damage could create interminable delays
  - Locks and Dams
  - Bridges
  - Nuclear Plants along rivers
  - Shore facilities
  - Coast Guard infrastructure
SOLUTIONS

- Vigorous prevention efforts
  - Effective Buoy Tending
  - Licensing of Mariners
  - Casualty Investigation – Lessons Learned
- Risk-managed application of security resources
- Aggressive intelligence collection and follow-up
- Extensive collaboration with agencies and industry
- Maintenance of plans and regular exercises
- Provided Introduction to Coast Guard in Local Area
- Gave Overview of Coast Guard’s Major Projects: Rescue21, Deepwater
- Explained Presence and Force Layout of Coast Guard in Western Rivers
- Presented Maritime Security Challenges in Local Area