



**Program Executive Office  
Command, Control, Communications,  
Computers and Intelligence (PEO C4I)**

**Navy Expeditionary Combat  
Command (NECC)**

**12 June 2008  
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NECC APM**

Statement A: Approved for public release; distribution is unlimited (06 June 2008)

***Information Dominance  
Anytime, Anywhere...***



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# Navy Expeditionary Combat Command



Providing adaptive force packages of rapidly deployable expeditionary forces, made up of active duty and reserve mission specialists, to warfare commanders in support of maritime security operations around the globe.



Riverine



Naval Construction  
(Seabees)



Explosive Ordnance  
Disposal



Maritime Expeditionary  
Security



Expeditionary Diving



Expeditionary  
Intelligence



Combat Camera



Expeditionary Logistics



Guard Battalion



Expeditionary Medical



Maritime Civil Affairs



Expeditionary Training



Expeditionary  
Combat Readiness



# NECC Battlespace

## Adaptive, Responsive, Expeditionary





# Executing Global Maritime Strategy

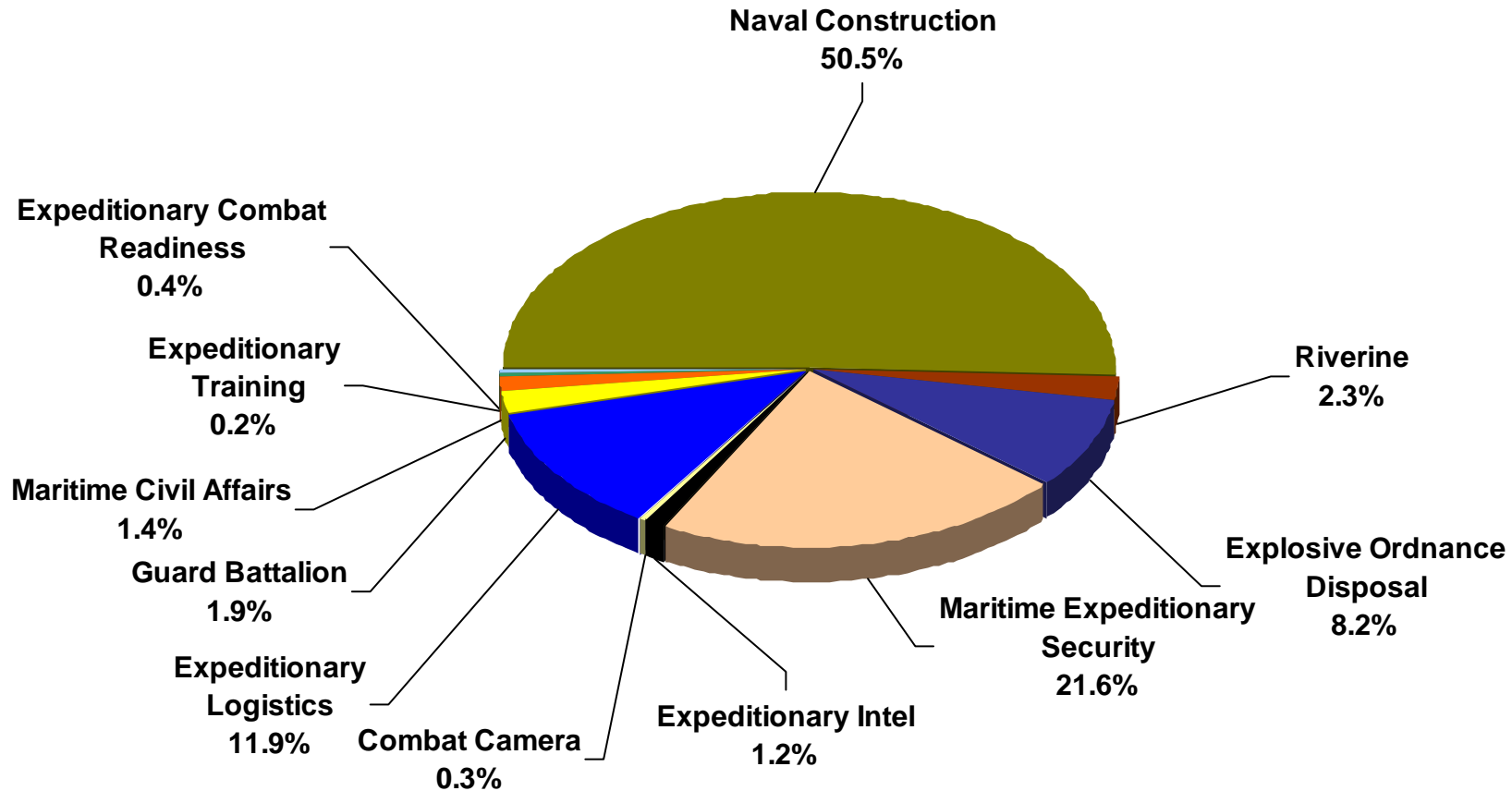
## *NECC Global Engagement*



***All NECC capabilities on mission/deployment in FY-07***



# NECC At A Glance



**47 percent of NECC forces are Reserve Component**



# NECC CONOPS

## *Commercial Satellite Operations*



- **Deployment Scenario**
  - Requirement: DISN Connectivity for IP data, Telephony, VTC
  - Short Term Operations
    - Transportable Ku VSAT, INMARSAT, Iridium
    - PMW790 procures AN/USC-68 Ku VSAT
    - Other NECC procured terminals exist
  - Longer term operations
    - Transportable Tri-band terminal (X, C, Ku)
    - PMW790 procures AN/USC-60A & 67 for MESF, Riverine, EOD
    - AN/USC-65 procured by Seabees
  - Once a Theater Matures, NECC forces typically will migrate their DISN connectivity support to Joint or other DOD Service's networks



# NECC Wideband SATCOM Terminal *Fielding Status*



- Ku and Tri-band SATCOM terminals
  - 11 AN/USC-60A systems fielded to NECC units
  - 4 AN/USC-67 systems to be purchased in FY08
  - 4 AN/USC-65 purchased by Seabees
  - 6 AN/USC-68 Ku VSAT terminals integrated
  - 2 Ku VSAT terminals to be purchased in FY08



**AN/USC-68 Ku VSAT**



**AN/USC-67 Tri-band**



# NECC Architecture

## Commercial Satellite Operations



- Architecture
  - RF Gateways:
    - DOD Teleports
    - Commercial Gateways
    - Joint/Army/USMC hub-spoke Ku networks
  - Modems
    - SCPC
    - iDirect and Linkway IP Modems
  - Baseband
    - TDMA Multiplexers (Timplex, Promina)
    - Converged IP in progress
  - DISN Network Access Points for SIPRNET/NIPRNET/Internet, DSN, VTC
    - DOD Teleports
    - Navy Telecommunication Stations (NCTAMS)
    - Expeditionary Network Operation Centers
    - Joint/Army/USMC provided via Hub network



# NECC Communication Requirements



- Expeditionary Units Comms Requirements are reflective of their flexible Force deployment packages.
  - Small, medium and large unit sizing
  - Throughput varies: 128 kbps to T1
  - Rapid deployment – within hours on commercial or military air to days on cargo lift
  - Small to medium equipment footprint
    - Checked and Carry-on Baggage w/Reachback to Network Services and Application Data
    - Palletized Cargo w/Networks deployed forward
  - Military and/or Commercial Satellites

***NECC Formulating Enterprise Level Requirements across all NECC Units***



# Summary

- NECC Forces are deployed worldwide
- Small footprint and rapid access to DISN are critical to supporting Warfighter mobility
- NECC SATCOM requirements are growing as newer units formulate their C4ISR information needs and CONOPS

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