



# **NAVY AND MARINE CORPS SPECTRUM OFFICES (NMCSSO)**



**SHORE SUPPORT**

**(INSTALLATION SPECTRUM MANAGER (ISM)/FLEET  
SUPPORT)**

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## Report Documentation Page

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# NMCSO Mission



- The NMCSO is responsible to ensure USN/USMC access to and effective use of the electromagnetic spectrum in national security and military operations.
- This support includes three primary areas:
  - implement and enforce DOD and DON spectrum management policy and guidance;
  - provide afloat, **shore, joint spectrum management support and training;**
  - provide support to Navy Marine Corps Spectrum Center (NMSC) which serves as the DON center of excellence for matters pertaining to electromagnetic spectrum management.



# NMCSO Spectrum Mgmt



- NMCSO Offices provide Regional shore support
  - Supporting COMTHIRDFLT and COMSEVENTHFLT
  - Base/Facility/installation
  - Coastal Areas – SECONDFLT, THIRDFLT, FOURTHFLT, SEVENTHFLT, I, II and III MEF units
- Naval Telecommunications Publication 6 (NTP-6)
- CLF/CPF OPORD 201/2000 Annex K
- C3F OPORD 201 Annex K / C7F CEI Annex K/COMUSNAVEUR 4000
- Marine Corps Order 2401.2A (07Oct2009)
- Other OPORD (COMPATWINGPAC/TSCOM, SUBPAC, ...)
- ISM Instructions



# NMCSO Spectrum Mgmt Cont.



- AESOP – OPTASKCOMMS CSG/ESG baseline plans
- Frequency Request
  - Receipt/Initiation
  - Coordination
  - Submission to NMSC/NTIA
  - Back brief user
- Equipment Certification (DD1494/JF12)
- RFI/EMI (Joint Spectrum Interference Report (JSIR))
- EW / EA / GPS EA / CREWS Clearance request



# NMCSO Regions

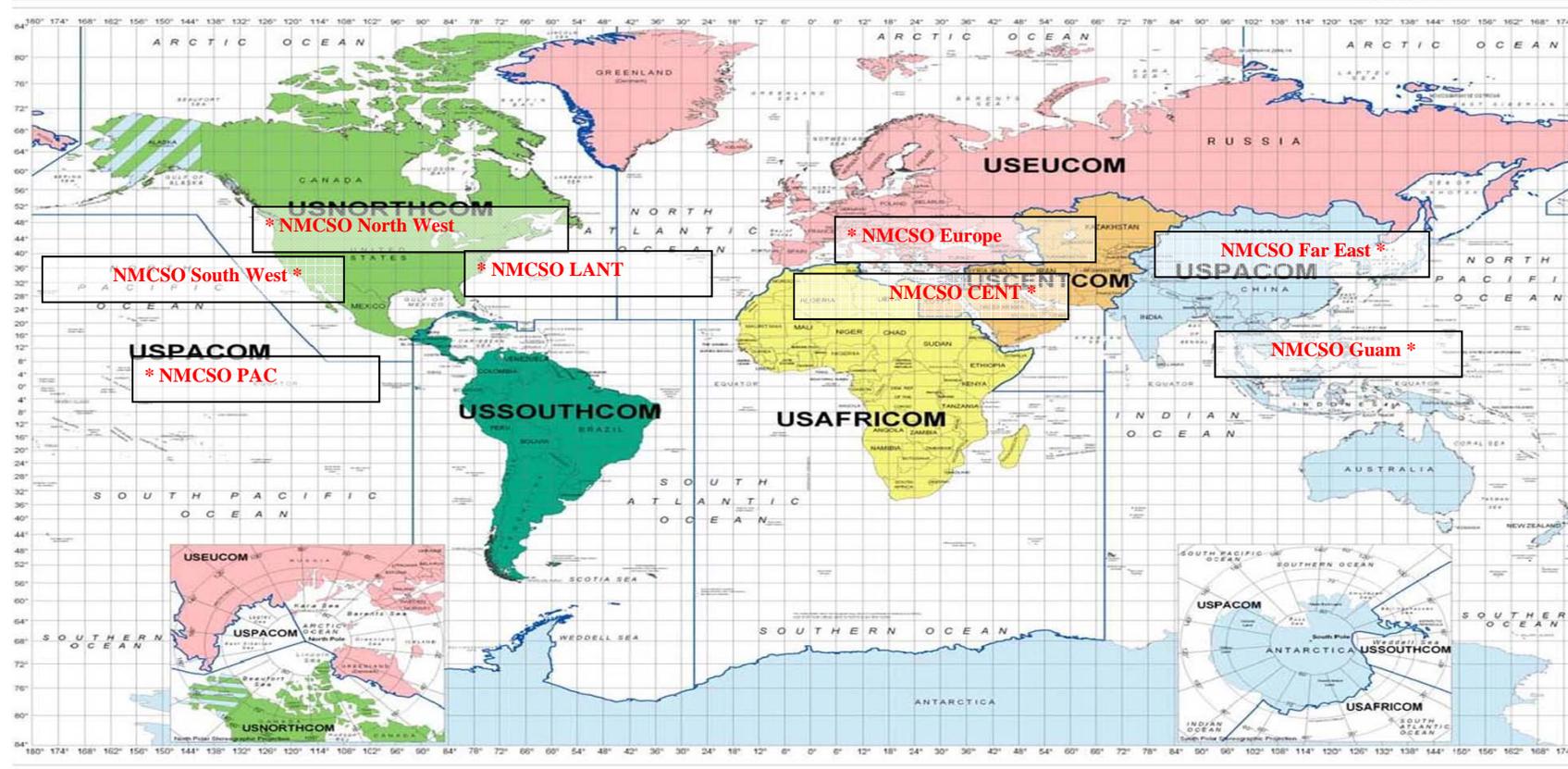


THE WORLD 1:60,000,000

## THE WORLD WITH COMMANDERS' AREAS OF RESPONSIBILITY

EDITION 8 NGA  
BASED ON  
UNIFIED COMMAND PLAN  
17 DECEMBER 2008

SERIES



RIES 1107  
ITON 8 NGA



PREPARED AND PUBLISHED BY THE  
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ST. LOUIS, MO  
Map information as of 2008

State of Alaska assigned to USNORTHCOM's  
Area of Responsibility. Forces based in Alaska  
remain assigned to USPACOM.

1:60,000,000  
MILLER CYLINDRICAL PROJECTION

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\* West Bank and Gaza Strip - "Israel-occupied with current status subject to the Israeli - Palestinian Interim Agreement - permanent status to be determined through further negotiation."

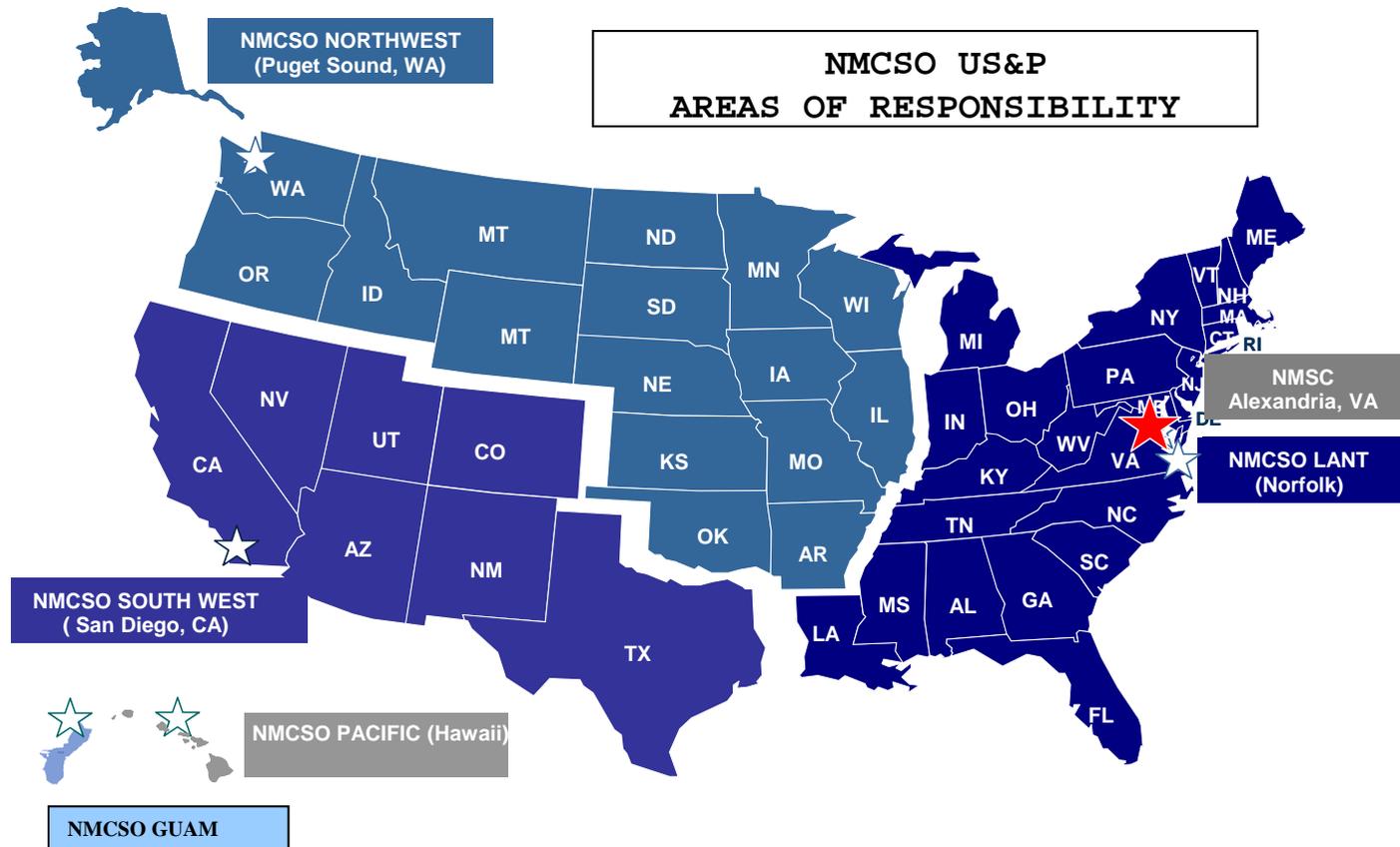
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# NMCSO Regions U.S. & Possessions





# Spectrum Management Two Part Process



## Certification (DD1494/JF12)

- Regulations Compliance
- Allocations Compliance
- Standards Compliance
- What other systems are in band?
- Spectrum availability to support requirement?
- Host Nation supportability and coordination
- License to procure



## Freq. Assignment, (SFAF)

- Approval to use a specific channel/frequency in a specified manner
- License to radiate



# Frequency Assignment



- Frequency assignment is the second part of the two part process of authorizing a system or equipment to radiate using the electromagnetic spectrum.
- A frequency assignment is the “license to radiate” on a discrete frequency or frequencies within a specified set of constraints, such as power, emission bandwidth, location of antenna, operating time of day, etc.
- All Radio Frequency (RF) emitters must have an approved frequency assignment prior to conducting testing, evaluation or operations within the US&P or in foreign countries.



# Frequency Assignment Cont.



- Reference appropriate fleet guidance on frequency submission request. Follow Chain of Command on submission request:
  - NTP-6
  - Marine Corps Order 2401.2A
  - COMSEVENTHFLT iaw C7F C2000.1J
  - COMTHIRDFLT iaw APP 8 to Annex K to C3F OPORD 201
  - COMSUBPAC Annex K
  - FACSFAC OPTASK LINKS
  - SOPA Instructions
  - National and International policy variations



# Radiation Restrictions



- Frequency assignment authorization to transmit (RADAR or Comms in port) (FACSFAC, SUBPAC, MIDPAC, ATG, NCTAMS, etc)
- SOPA Instructions (Communications, Emergency Dispersal, and Heavy Weather).
- Regional Regulations for HERO
- AESOP Spectrum Restriction Policy for Radar/Communications
- Keep Current



# AESOP & CSG/ESG Plans



## Afloat Electromagnetic Spectrum Operations Program

- Mandated by CNO WASHINGTON DC/021532ZMAY2005
- All afloat communications and radar plan development, modification, and dissemination with AESOP.
- NMCSO responsible for coordination and maintenance of frequency assignments and standard CSG/ESG plans working in conjunction with Fleet.
  - NTP-6
  - ISM
- Regional NMCSO responsible for coordination of in port use of frequencies.
- Discontinue use of legacy CSG plans. Guidance forthcoming.(Pubs)



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**ALSO MONITORS**

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**E.NSF/**

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# QUESTIONS?

Spectrum Management Challenges for the 21<sup>st</sup> Century



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