



**NAVY AND MARINE CORPS  
SPECTRUM OFFICES  
(NMCSCO)**

**PACIFIC REGION**

**(AFLOAT/FLEET SUPPORT)**

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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.



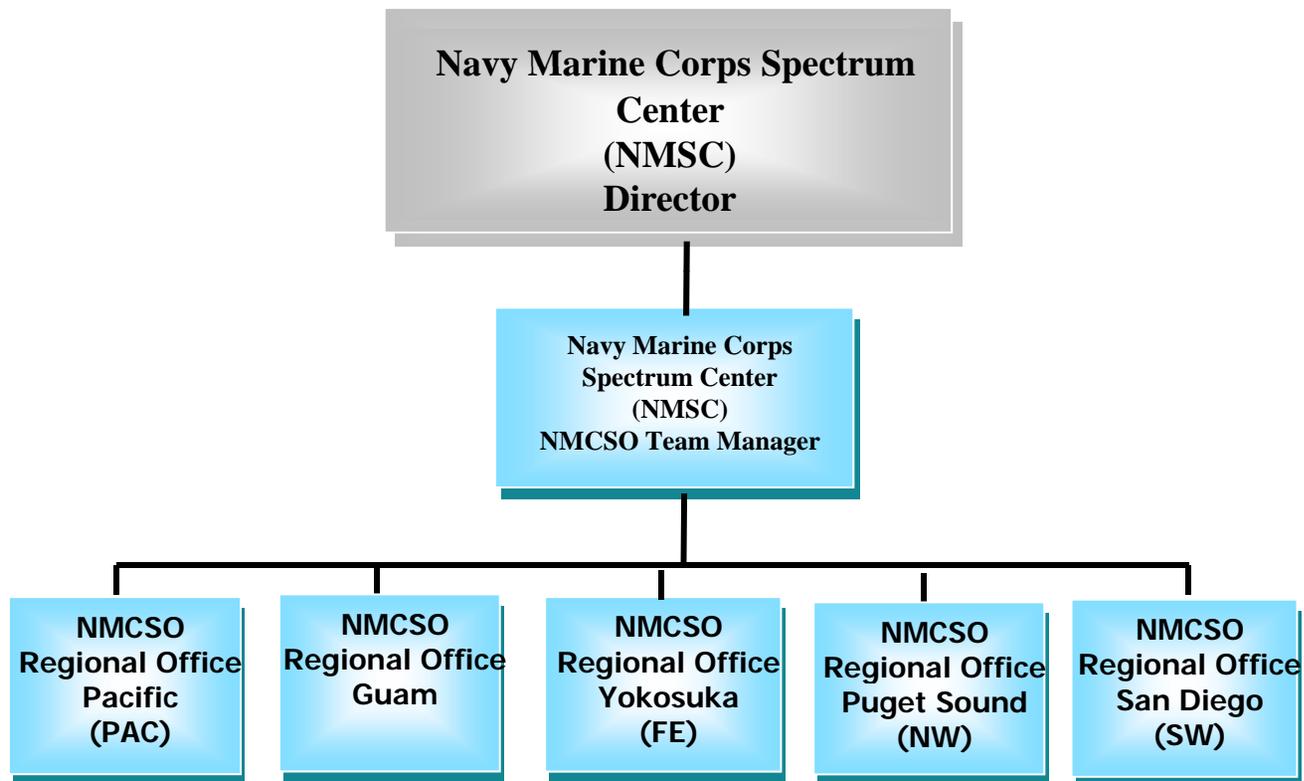
# NMCSO Spectrum Mgmt



- NMCSO Offices with Pacific Regional Responsibilities Afloat
  - Supporting COMTHIRDFLT and COMSEVENTHFLT
  - Pacific/Indian Ocean region foreign country coordination
  - Base/Facility/installation
  - Pacific areas – THIRDFLT, SEVENTHFLT, I MEF, and III MEF units
- CLF/CPF OPOD 2000 Annex K
- C3F OPOD 2000 Annex K / C7F CEI Annex K
- Other OPOD (COMPATWINGPAC/TSCOM, SUBPAC, ...)
- AESOPS – OPTASKCOMMS CSG/ESG baseline plans
- Frequency Request
- Equipment Certification (DD1494/JF12)
- RFI/EMI (Joint Spectrum Interference Report (JSIR))
- EW / EA / GPS EA / CREWS Clearance request

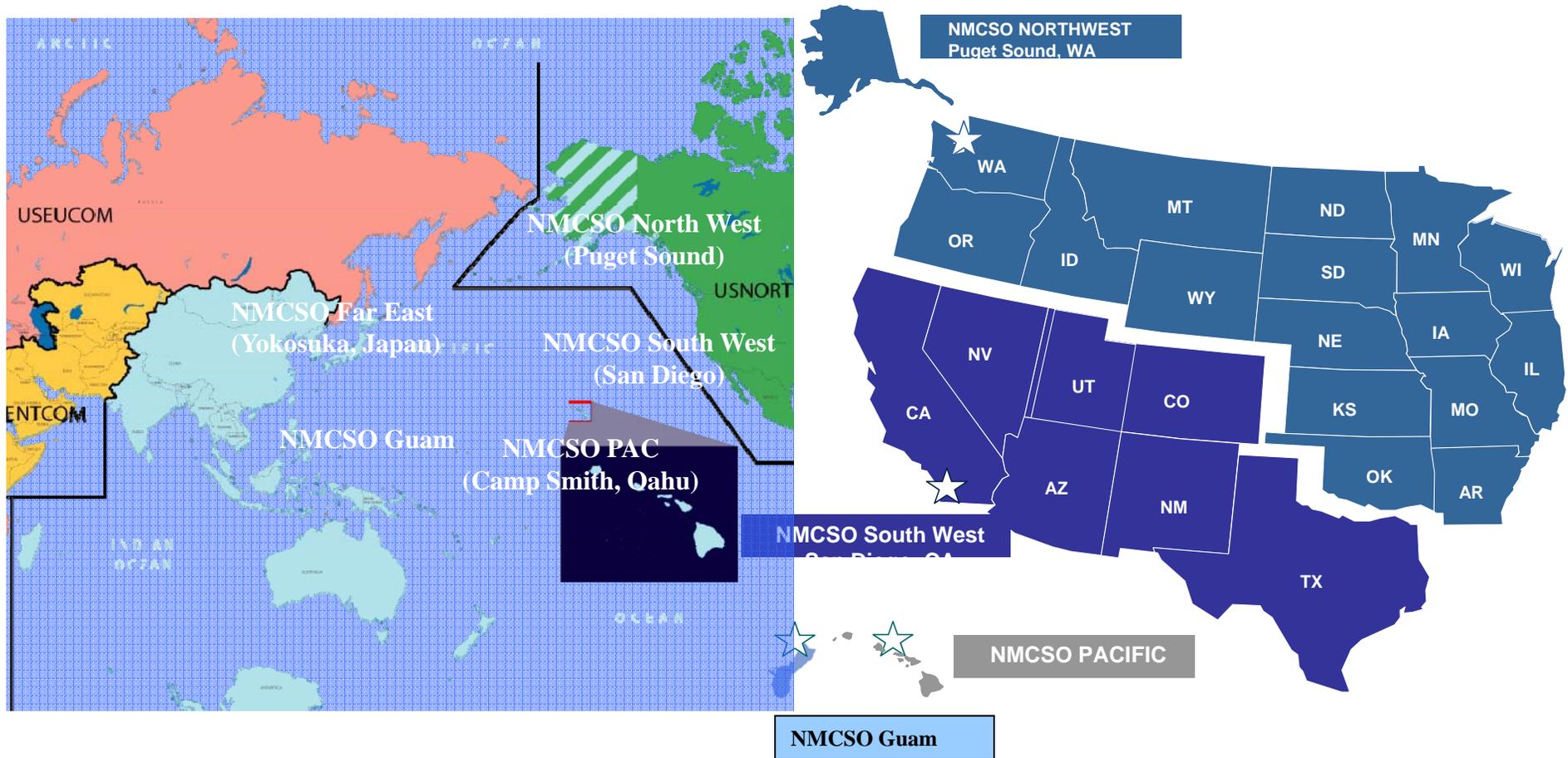


# Pacific Region Spectrum Support





# NMCSO Pacific Regional Areas of Responsibility





# 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:
  - COMSEVENTHFLT iaw C7F C2000.1J
  - COMTHIRDFLT iaw APP 8 to Annex K to C3F OPOD 201
  - COMSUBPAC Annex K
  - FACSFAC OPTASK LINKS
  - SOPA Instructions
  - National and International policy variations



# FLEET SUPPORT

## Pacific/Indian Ocean areas



- Standard C3F/C7F CSG/ESG with NMCSO PAC.
- NMCSO FE/GUAM/NORTHWEST/SOUTHWEST as appropriate for in port and coastal areas.
- I MEF and III MEF units coordinate with NMCSO PAC and/or NMCSO Guam as appropriate when operating outside of Japan, South Korea or CONUS.
- Indian Ocean east and south of the line from the India/Pakistan coastal border west to 068° E, south to 5° S/068° E, west to 5° S/059° E, south to 8° S/059° E, southwest to 11° S/054° E, west to 11° S/042° E, and south along 042° E to Antarctica; Australia, New Zealand, and Hawaii, SEVENTHFLT and FIFTHFLT assets operating therein coordinate with NMCSO Bahrain or NMCSO PAC as appropriate.



# 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
- International Regulations



# 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 PAC responsible for coordination and maintenance of frequency assignments and standard CSG/ESG plans for COMTHIRDFLT and COMSEVENTHFLT.
- Regional NMCSO South West, North West and Guam responsible for coordination of in port use of frequencies.
- Discontinue use of legacy CSG plans. Guidance forthcoming.



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# QUESTIONS?

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



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