NAVMARSPECCEN
(NMSC)

Navy and Marine Corps Spectrum Offices
(NMCSO)
Status

Keith Van Blarcom
NAVMARSPECCEN NMCSO Team Manager
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Overview

• NMCSO Mission Responsibilities
• NMCSO Regions
  ➢ US&P
  ➢ OCONUS
  ➢ NMCSO Manning
• Afloat Spectrum Support
• Electronic Warfare spectrum mgmt
• NMCSO vs. Fleet Support
• Shore Spectrum Support
• NMCSO Significant Accomplishments

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NMCSO Mission Responsibilities

• As outlined in
  - OPNAV Instruction 2400.1f
  - NTP-6(e) “Electromagnetic Spectrum (EMS) Guide”

• Eight Navy & Marine Corps Spectrum Offices (NMCSO) provide day-to-day support for Navy and Marine Corps under NAVMARSPECCEN.

• NMCSOs support the following primary SM functions:
  - Conduct Evaluations to Support Effective Use of Spectrum
  - Assist with refresher training and guidance on policy, guidance, procedures, required tools (software and hardware), and technical skills training for both shore and afloat commands.
  - Respond to frequency requests and process new proposals.
NMCSO Mission Responsibilities

- Perform 5-year reviews of all Frequency Assignments. Establish and maintain a program for Frequency Assignment review and validation.
- Provide SM Support for contingency operations, exercises, and other situations.
- Protect Use of Electromagnetic Spectrum. Support Combatant Commander and Fleet Operational Units in resolving electromagnetic spectrum use conflicts.
- Review Joint Spectrum Interference Resolution (JSIR) reports for all meaconing, intrusion, and jamming events.
- Provide coordination, direct assistance, and/or personnel support to JTF, JSME, and Spectrum Management Planning Cells (SMPCs).
- Assist Information Operations (IO)/Electronic Warfare (EW) planners in identifying and documenting RF emitter guidance for in-port/regional area usage plans.
- Serve as the single regional point of contact (POC) to coordinate spectrum requirements for all Navy EA, GPS, and RC/CIEDD operations, testing, evaluation, jamming, and exercises.
NMCSO Regions
(U.S. & Possessions)
NMCSO Regions
Outside CONUS

- **Pacific**: Hawaii, all Pacific Rim countries (less Japan, S Korea, Singapore and Diego Garcia)
- **Far East**: Japan, S. Korea, Diego Garcia, Singapore.
- **Bahrain**: Gulf Cooperative Council (GCC) countries within USCENTCOM AOR, specifically the Red Sea, the North Arabian Sea, and Persian Gulf and portions of the Indian Ocean.
- **North West**: Alaska
- **Europe**: European/African countries and those ocean areas within USEUCOM and USAFRICOM.
- **Atlantic**: All countries and ocean areas under the cognizance of USSOUTHCOM and within Forth fleet AOR.
Navy and Marine Corps Spectrum Center
NMCSO Manning Chart

NMCSOs
Civilian (GS) – 17 of 17
Military – 13 of 17
Contractor – 2
**NMCSO**

**Afloat Spectrum Support**

- **AESOP** is the primary tool for management of Fleet Communications Plans and Radar Planning.
  - Afloat Electromagnetic Spectrum Operating Program (AESOP)
- Support fleet commanders by development, maintenance and scheduling of common ESG/CSG communications plans.
  - Plans are under the control of regional NMCSOs on behalf of numbered fleet commanders.
- All afloat spectrum requirements will be processed via the numbered fleet commander or designated NMCSO regional representative as outlined in applicable fleet guidance.
- De-conflict and assign frequencies.
- Maintain and review fleet frequency resources and obtain additional resources as needed.
In all cases, when common CSG/ESG plan is assigned,

- Strike Groups must develop its own plan using AESOP, and
- Submit for review, validation and authorization for use by the regional NMCSO or Fleet commander prior to execution.

TACAN Scheduling and Assignments for USN, USCG and Coalition units.

All Standing OPTASK Comm Plans are available at the AESOP SIPRNET WEB portal within the reference library.


Ensure all Stage 4 Equipment Certifications are supported by frequency assignments.
NMCSO
Electronic Warfare

• Fleet Common Plan (Annex K) App 5 “Electronic Warfare (EW) Spectrum Management and CJCSM 3212.02 Series
• NMCSO will assist in processing EA/EW, GPS Jamming, and RC/RFIED requirements as outlined in applicable instructions.
• Clearance request for ground threat simulators should be submitted by regular frequency proposal request.
• Regional NMCSO offices maintain all annual clearance authorizations and processing of special requirements.
• COCOM will be responsible for all military use of Electronic Attack (EA) frequencies within geographic area.
NMCSO Vs Fleet Support

<table>
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<tr>
<th>NMCSO</th>
<th>FLEET AREA OF SUPPORT</th>
<th>TACAN Channel Assignment Scheduling</th>
<th>COMMON AESOP CSG/ESG OPTASK COM M Development/Processing/5yr reviews</th>
<th>CSG/ESG Plan Scheduling</th>
<th>AESOP OPTASK COM M Processing/Validation and Sub-assignments</th>
<th>Frequency Proposal Processing (New&amp;Temp)</th>
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NMCSO
Shore Spectrum Support

• NMCSOs provide a ready resource for current regional spectrum management policy and guidance.

• NMCSOs provide guidance and training in support of operations, maintenance of DD Form 1494, Frequency Assignments, and site license requirements.

• Commands:
  ➢ are responsible for frequency emissions originating from within the physical limits of their property.
  ➢ will coordinate spectrum requirements with the regional NMCSO office.
  ➢ obtain frequency authorization for each use of the electromagnetic spectrum.
  ➢ will appoint in writing a person as the Installation Spectrum Manager who will be responsible for coordination of frequency requirements.
ACCOMPLISHMENTS

NMCSO Bahrain: (Supr Keith Jones)

- Represented COMFIFTHFLT/COMUSNAVCENT as the U.S. Delegation lead and primary speaker at the 30th and 31st GCC/U.S. DoD radio frequency EMI Conference.
- Planned, coordinated, and executed the SPS-49 proof of concept test between a US vessel and monitoring stations in Bahrain, Qatar, Saudi Arabia and Kuwait.
- Formulated C5F standing OPTASK COMMS (all inclusive 4 Carrier Strike Groups, 3 Amphibious Readiness Groups contingency OP Plan) released June 2011.
- C5F recognized NMCSO CENT BAHRAIN as the AOR Spectrum Managers for all Navy and Marine Corps Forces.
ACCOMPLISHMENTS

NMCSO North West: (Supr Russell Potter)

- Boeing P8A & LCS-3 Program - which included all bands and IFF assignments
- "Proof of Concept" for three variations of EW Simulator at locations in Washington State & Boardman Oregon.
  - This included assignments used from the simulator and IFF to track aircraft in the test area.
- Supports commands throughout 17 states and afloat.

NMCSO (South West) San Diego (Supr Rena Karas)

- COOP - NAVMARSPECCEN or NMCSO LANT office operations during contingencies.
- Significant reduced in past due five Year Reviews.
ACCOMPLISHMENTS

- NAVAIR testing of MH-60, ASP-147, APX-118/USM-719 IFF projects, F-35 APX, AND Free wave MM2-P-T.
- E2D APX-122 aircraft equipment tests.
- Navy afloat and Marine Corps exercise/training support.
- BMD FTT-12 missile defense mission support Concord, CA NMCSO Guam (Supr Robert Hedrick) and Far East (Supr Gary Vogel)
- Guam - Joint Region Marianas J6 2400.1 instruction (Radio Frequency Spectrum Mgmt signed.
- Japan - COMNAVFORJAPAN J6 2400.5 instruction (Spectrum Mgmt Policy)
- OPERATION Tomodachi – Japan Earthquake/Tsunami support within Japan, and Guam aircraft relocation support.
ACCOMPLISHMENTS

- SEVENTHFLT Spectrum and Electronic Warfare support
- Japan significant reduction of interference through aggressive monitoring and resolution program.
  - Government of Japan Radio Monitoring Group (RMG) recognized efforts as outstanding support from U.S. military (NMCSO Far East office)

NMCSO PAC (Supr Randall Hall)

- Fleet and special project support.
- Waterfront training and awareness classes.
- Operation Tomodachi OPTASKCOM support to CTF76
- Hawaiian annual Electronic Warfare clearance & management
- Supported 19 THIRD & SEVENTHFLT exercise events

UNCLASSIFIED
ACCOMPLISHMENTS

• Identified fifty five (55) fleet radar assignment and documentation deficiencies.
  ➢ Coordination and processing of Note to Holders and frequency proposals.
  ➢ THIRDFLT shipboard Stage 4 Equipment Certifications are supported by frequency assignments.

• UPX-37 and APX-118:
  ➢ Eighty Eight (88) proposals supporting (12) ship classes for IFF operations within USP/Coastal Waters. All Modes of operations supporting various "slaved to" equipment configurations.

NMCSO Atlantic (Supr Janet Baker)

• IFF (APX, UPX-37, UPX-41 T&E test events.

• UAV, Scan Eagle and Fire Scout BAMS, CARGO, Navy Global Hawk, N-UCAS UAS operational & training support.

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ACCOMPLISHMENTS

- Fleet TACAN Channel scheduling and support.
- Management & scheduling of Atlantic fleet standing OPTASKCOMMS for Carrier Strike and Expeditionary/Amphibious Readiness Groups.
- High visibility ONR field demonstration.
- Supports major exercises for UK Auriga, PANAMAX, and numerous fleet and Marine Corps regional requirements.

NMCSO Europe (Supr Mark Brushwood)

- Regional TRIDENT missile testing.
- Unmanned Aerial Systems support
  - Used in LANT/MED/IO AOR’s
  - Set up same frequencies for afloat command as they inchop/outhop

UNCLASSIFIED
ACC MPLISHMENTS

• Regional Electronic Harbor Security System (EHSS) upgrades.
• Dialog ongoing to place the NMCSO EUR as focal point for processing all NAVEUR/NAVAF/6FLT spectrum requirements.
• Wireless Pier Connection System (WPCS) regional support.
ACCOMPLISHMENTS
NMCSO

• Annual NMCSO Frequency Transactions for 2011
  ➢ Processed 30486 records.

• Drafted/Revised/Reviewed 75 plus OPTASKCOMS

• Reduced past due Navy and Marine Corps record backlog
  ➢ (2001-2005) In excess of 4704 to date.

• TACAN Fleet Channel Scheduling/Assignments:
  ➢ 600 plus from NMCSO LANT office and reviews by PAC offices

• Ongoing Improvements to Government Master File (GMF) data accuracy through assignment/equipment certification reviews of all Navy & Marine Corps records.

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NMCSO Supervisor
Point of Contacts


- NMCSO (CENT) Bahrain
  - Keith Jones, CML 973-1785-8118, DSN 318 439-8188
- NMCSO (Europe) Naples Italy
  - Mark Brushwood, CML 0039-081-568-6133, DSN 314 626-6133
- NMCSO (Far East) Yokosuka Japan
  - Gary Vogel, CML 011-81-46-816-2265, DSN 315 243-2267
- NMCSO (Guam) Gu
  - Robert Hedrick, CML (671) 355-5066, DSN 315 355-5066
- NMCSO (LANT) Norfolk Va
  - Janet Baker, CML (757) 836-8010, DSN 312 836-8010
- NMCSO (North West) Bangor Wa
  - Russell Potter, CML (360) 396-7075, DSN 312 744-7075
- NMCSO (PAC) Honolulu Hi
  - Randall Hall, CML (808) 477-9609, DSN 315 477-9614
- NMCSO (South West) San Diego Ca
  - Rena Karas, CML (619) 545-9978, DSN 312 735-9978
QUESTIONS?

Keith Van Blarcom, GS14
Navy & Marine Corps Spectrum Center
NMSC NMCSO Team Manager
CML 808 477-9614 DSN 315 477-9614
Keith.vanblarcom@navy.mil
Office Location: Camp Smith, Hawaii -u-

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