



NAVMARSPECCEN (NMSC)



Navy and Marine Corps Spectrum Offices (NMCSO) Status

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2012

"Distribution A: Approved for public release"

Report Documentation Page

Form Approved
OMB No. 0704-0188

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1. REPORT DATE 2012		2. REPORT TYPE		3. DATES COVERED 00-00-2012 to 00-00-2012	
4. TITLE AND SUBTITLE Navy And Marine Corps Spectrum Offices				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Navy & Marine Corps Spectrum Center, Camp Smith, HI, 96861				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the 33rd annual U.S. Navy-U.S. Marine Corps (USN-USMC) Spectrum Management Conference was held 27 February-2 March 2012 in San Diego					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Overview



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- NMCSO Significant Accomplishments

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NMCSO Mission Responsibilities



- As outlined in
 - OPNAV Instruction 2400.1f
 - NTP-6(e) “Electromagnetic Spectrum (EMS) Guide”
 - Fleet COMMOPLAN (Annex K) Appendix 5 “Electromagnetic Spectrum Management”
- **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.

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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.

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NMCSO Regions



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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.



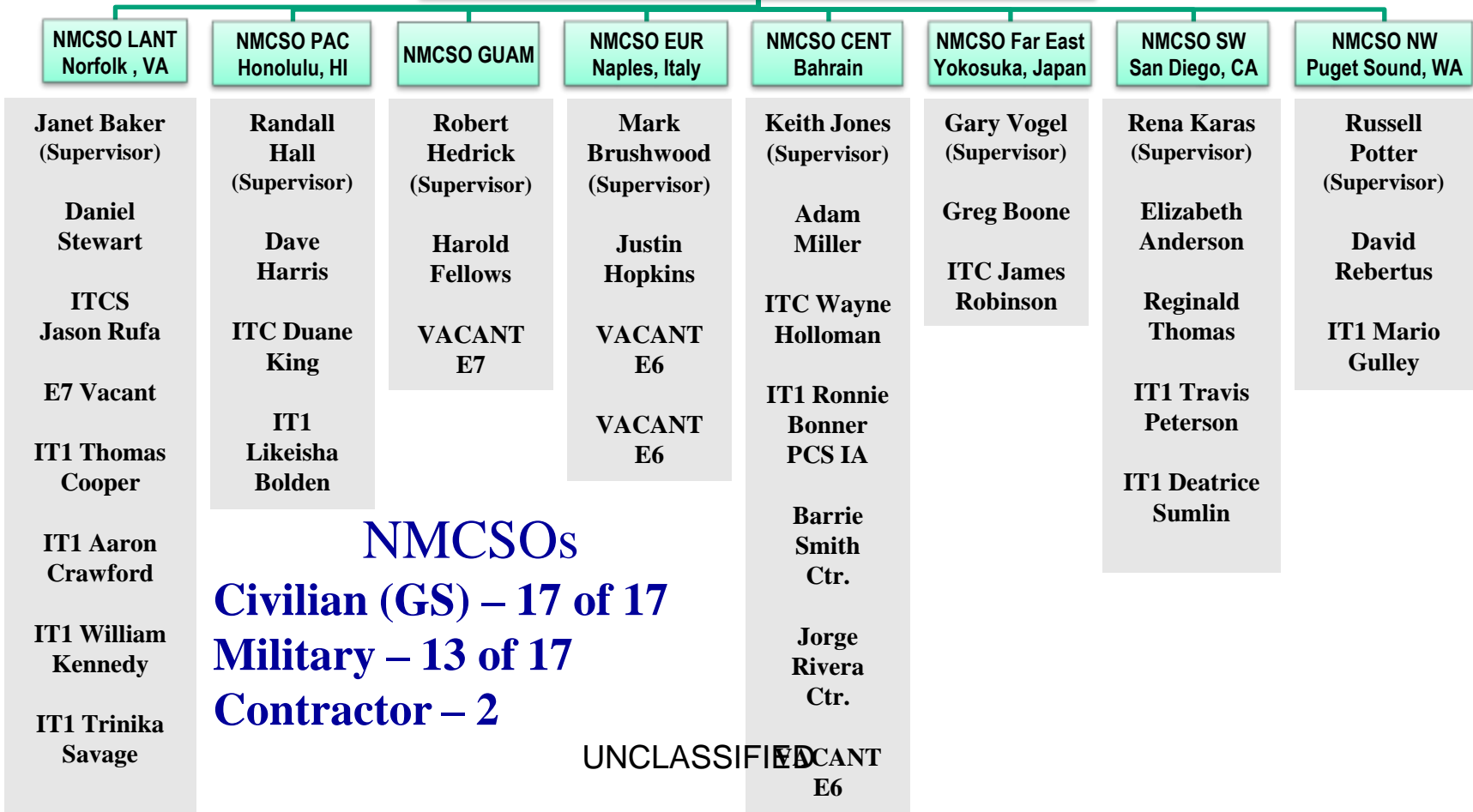
Navy and Marine Corps Spectrum Center

NMCSO Manning Chart



Navy and Marine Corps Spectrum Center
(NAVMARSPECCEN)
Director Thomas Downie, GS15

NAVMARSPECCEN – Navy and Marine Corps Spectrum Office (NMCSO)
Team Manager Keith Van Blarcom, GS14



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 commander.
- 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.

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Afloat Spectrum Support



- 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.
 - <http://cnl.phdnswc.navy.mil/aesop/>
- 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.

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NMCSO Vs Fleet Support



NMCSO	FLEET AREA OF SUPPORT	TACAN Channel Assignment Scheduling	COMMON AESOP CSG/ESG OPTASK COM M Development /Processing/ 5yr reviews	CSG/ESG Plan Scheduling	AESOP OPTASK COM M Processing/ Validation and Sub-assignments	Frequency Proposal Processing (New&Temp)	Shore/Afloat Training Assist	EMI Conflict Resolution Assist	Electronic Warfare Request/ Review/Assist	RADAR Restriction Development / Guidance
PAC	C3F/C7F	Pending	X	Pending	X	X	X	X	X	X
LANT	C2F/C4F	C2F/C4F	X	X	X	X	X	X	X	X
EUR	C6F					X	X	X	X	
CENT	C5F	C5F	X	X	X	X	X	X	X	X
NW	C3F NW		X		X	X	X	X	X	
SW	C3F SW					X	X	X	X	
GUAM	C7F				X	X	X	X	X	
FA	C7F		X			X	X	X	X	X

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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.

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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.

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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.

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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



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/outchop

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ACCOMPLISHMENTS



- 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



<https://www.portal.navy.mil/cyberfor/N4/n45/spectrummanagement/default.aspx>

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