

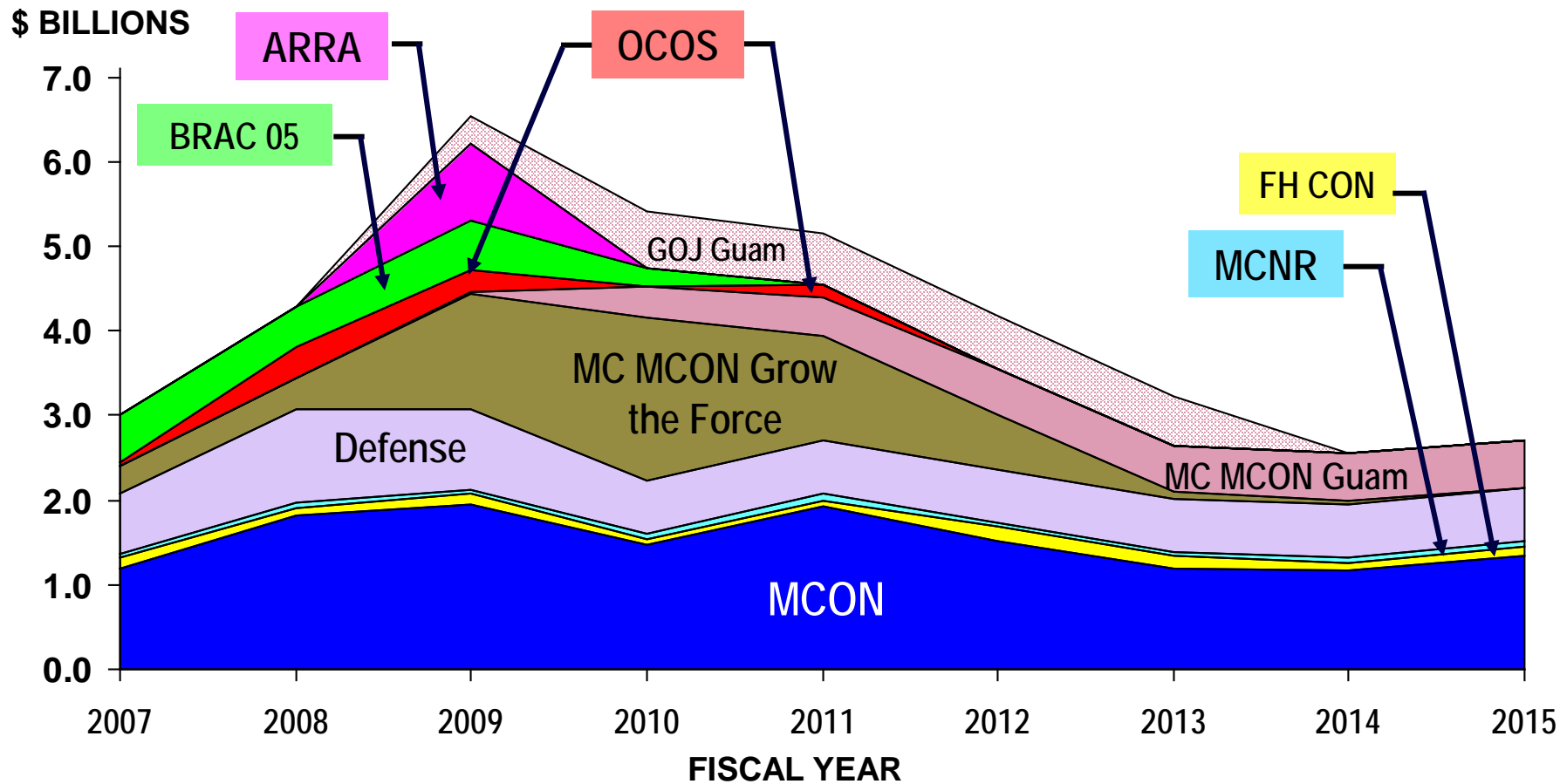


# ***FEDCON***

***8 December 2009  
Washington, D.C.***

***Joseph E. Gott, P.E.***  
***Chief Engineer, and  
Director, Capital Improvements***

# MILCON Construction Program

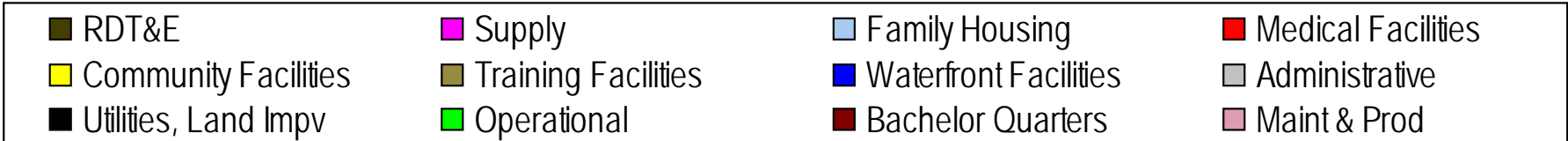
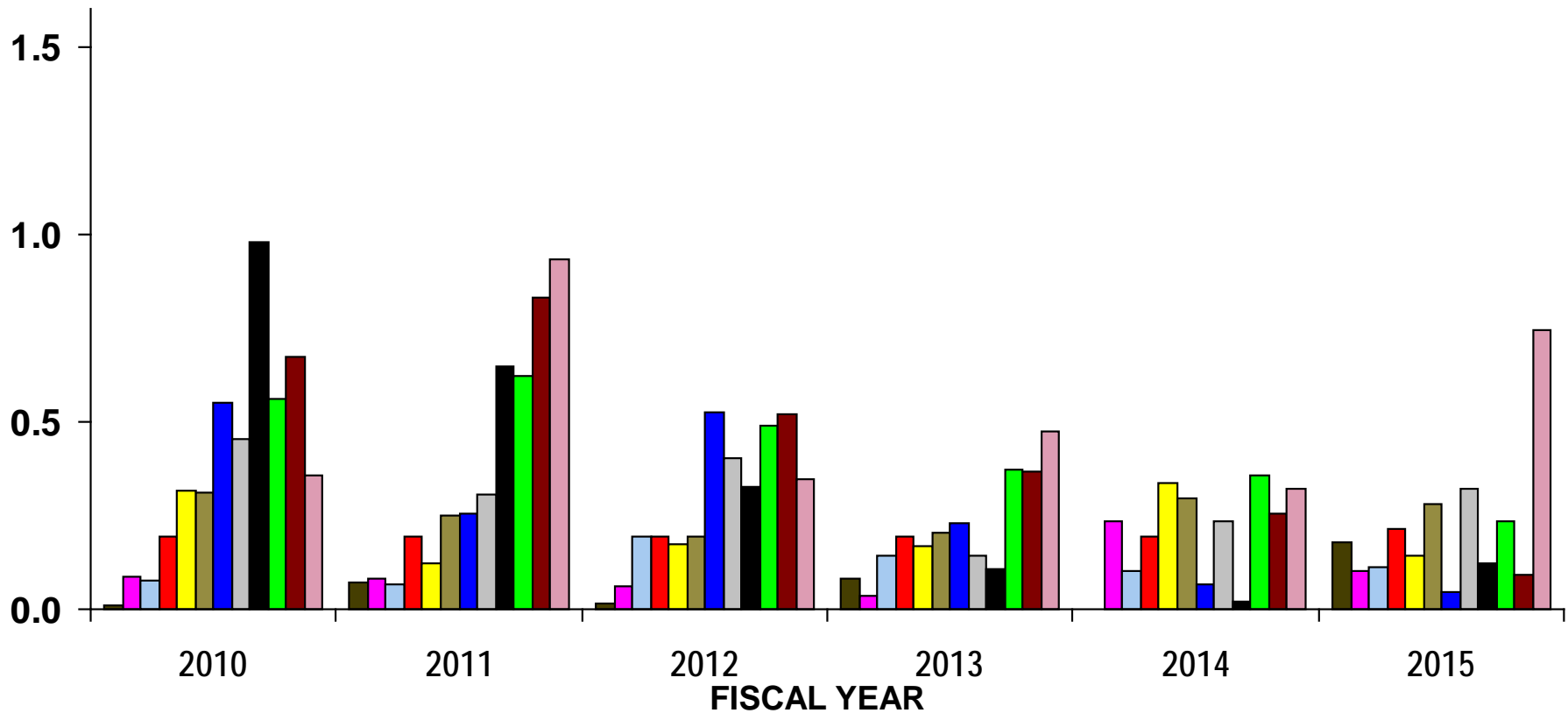


PR 2011 OSD SUBMIT

# MILCON Major Categories of Work



\$ Billions

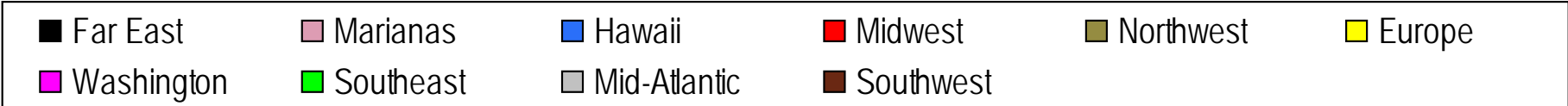
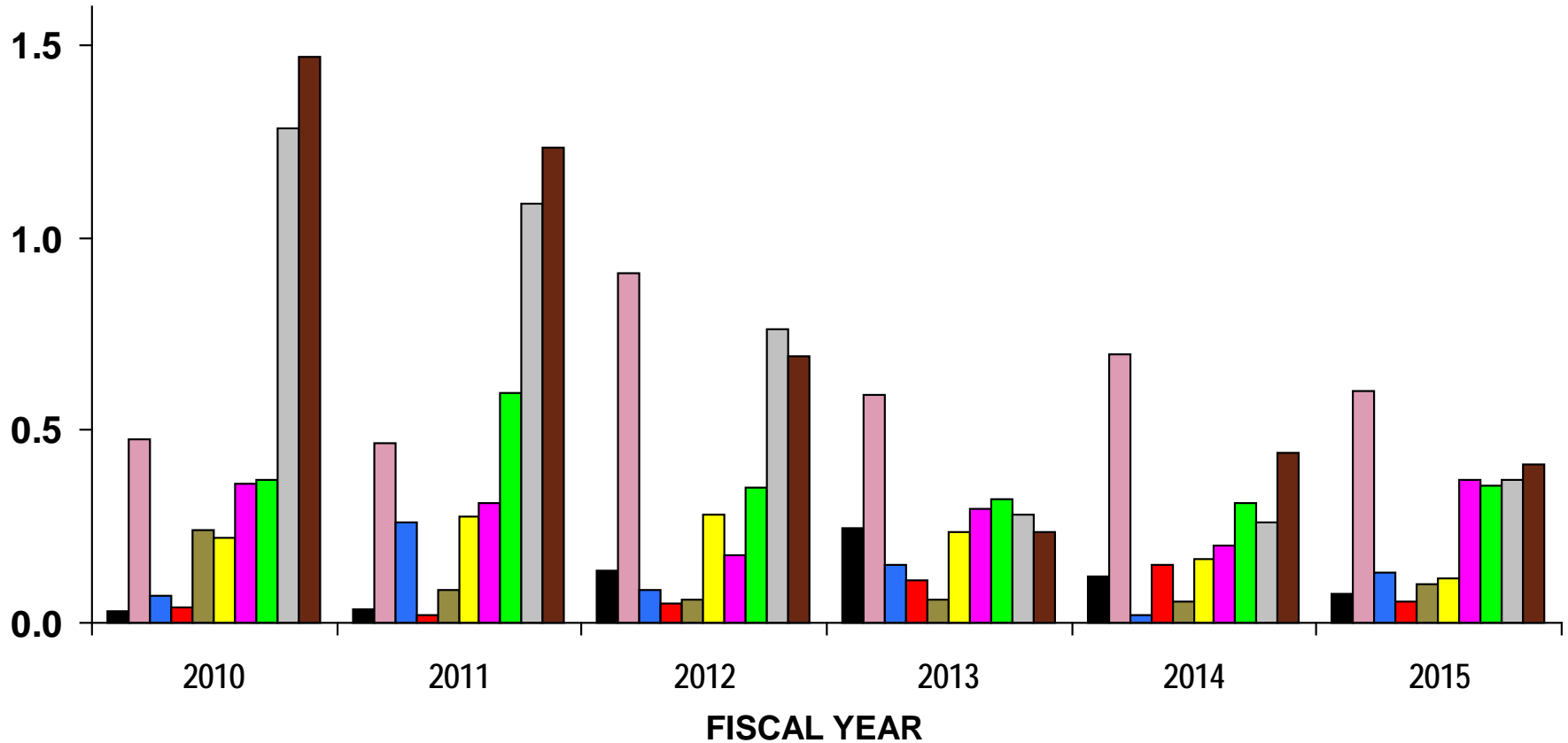


PR 2011 OSD SUBMIT

# MILCON Workload Distribution



\$Billion



PR 2011 OSD SUBMIT

# Military Construction Projects List



- [www.navfac.navy.mil](http://www.navfac.navy.mil)
  - Under “Businesses” select - Partner with us
  - Other Opportunities (tab)
  - MILCON Solicitation & Award Forecast

MILCON Solicitation/Award Forecast									
FOR PLANNING PURPOSES ONLY									
This list is not, nor is it intended to be a prediction of what military construction projects may ultimately be solicited. Projects may not be approved, and project specifics may vary prior to solicitation and/or award. Projects not included on this list may be solicited. Dates shown are for advance planning only. See FEDBIZOPS for actual solicitations.									
Acquisition Method Abbreviation Definitions - BV38: Best Value Source Selection, RFP - LP: Request For Proposal - Low Price & Past Performance, IFS/ICB: Invitation For Bid/International Competitive Bid									
Responsible Component	P number	Project Name	Activity Name	Design Method	Acquisition Tool	Acquisition Method	Programmed Amount	Projected Solicitation Date	Projected Award Date
NAVFAC Europe and SW Asia	PX85	WATER DISTRIBUTION LINE	NAVSTA ROTA SP	Design Bld Buid	MAC - General	RFP - LP	\$5,100,000	24-Nov-2008	15-Jan-2009
NAVFAC Europe and SW Asia	957	AIRCRAFT MAINTENANCE HANGAR	CAMP LEMONIER DIBOUTI	Design Buid	Global Contingency Contract (GCC)	RFP - BVSS (One Step)	\$12,820,000	15-Dec-2008	20-Mar-2009
NAVFAC Europe and SW Asia	959	AIRCRAFT PARKING APRON	CAMP LEMONIER DIBOUTI	Design Buid	Global Contingency Contract (GCC)	RFP - BVSS (One Step)	\$15,250,000	15-Dec-2008	20-Mar-2009
NAVFAC Europe and SW Asia	910	TELECOM FACILITY	CAMP LEMONIER DIBOUTI	Design Buid	Global Contingency Contract (GCC)	RFP - BVSS (One Step)	\$3,330,000	15-Dec-2008	20-Mar-2009
NAVFAC Europe and SW Asia	925	WATERFRONT DEVELOPMENT PHASE I	NAVSUBPACT BAHRAIN	Design Bld Buid	Stand Alone Construction Contract	RFP - BVSS (One Step)	\$35,500,000	18-Mar-2009	30-Jun-2009
NAVFAC Europe and SW Asia	411	FUEL STORAGE TANKS & PIPELINE REPLACEMENT	NAVSUBPACT SOUDA BAY QR	Design Bld Buid	Stand Alone Construction Contract	RFP - BVSS (One Step)	\$5,000,000	18-Mar-2009	30-Jun-2009
NAVFAC Europe and SW Asia	PX82	CHANNEL AND HARBOR DREDGING	NAVSTA ROTA SP	Design Bld Buid	Stand Alone Construction Contract	IFB/ICB	\$34,000,000	21-Jun-2009	02-Oct-2009
NAVFAC Maritime	0103	RECONFIG INTERIOR GF00 #4 FLAG CIRCLE NIMITZ HILL	PWC GUAM	Design Buid	MAC - SA CB	RFP - BVSS (Two Step)	\$242,000	25-Jul-2008	28-Sep-2008
NAVFAC MIA-Atlantic	175	WEAPONS MAGAZINES REPL	NAS BRUNSWICK ME	Design Buid		RFP - LP	\$8,220,000	17-Jan-2006	25-Mar-2006
NAVFAC MIA-Atlantic	691	OLF LAND ACQUISITION INC 1	NOLF WASHINGTON COUNTY NC	Land Acquisition		RFP - BVSS (One Step)	\$15,000,000	21-May-2007	31-Aug-2007
NAVFAC MIA-Atlantic	135	GTP-BACHELOR ENLISTED QUARTERS	MCAS CHERRY POINT NC	Design Buid	Stand Alone Construction Contract	RFP - BVSS (Two Step)	\$30,100,000	11-Nov-2008	27-Mar-2009
NAVFAC MIA-Atlantic	112V	MARITIME SUBSURFACE SENSOR OPS FACILITY	NAVAL STATION NEWPORT RI	Design Buid	Stand Alone Construction Contract	RFP - BVSS (One Step)	\$15,320,000	12-Nov-2008	15-Apr-2009
NAVFAC MIA-Atlantic	223V	RENOVATE V47 FOR COMBAT CRAFT FACILITY	NAVSTA NORFOLK VA	Design Buid	MAC - Industrial	RFP - BVSS (One Step)	\$7,140,000	13-Nov-2008	31-Mar-2009
NAVFAC MIA-Atlantic	615	APRON EXPANSION, PHASE 1	MCB CAMP LEJEUNE NC	Design Bld Buid	Stand Alone Construction Contract	RFP - BVSS (One Step)	\$8,830,000	15-Nov-2008	30-Mar-2009

- Updated monthly
- For planning purposes
- See FEDBIZOPS for actual solicitations

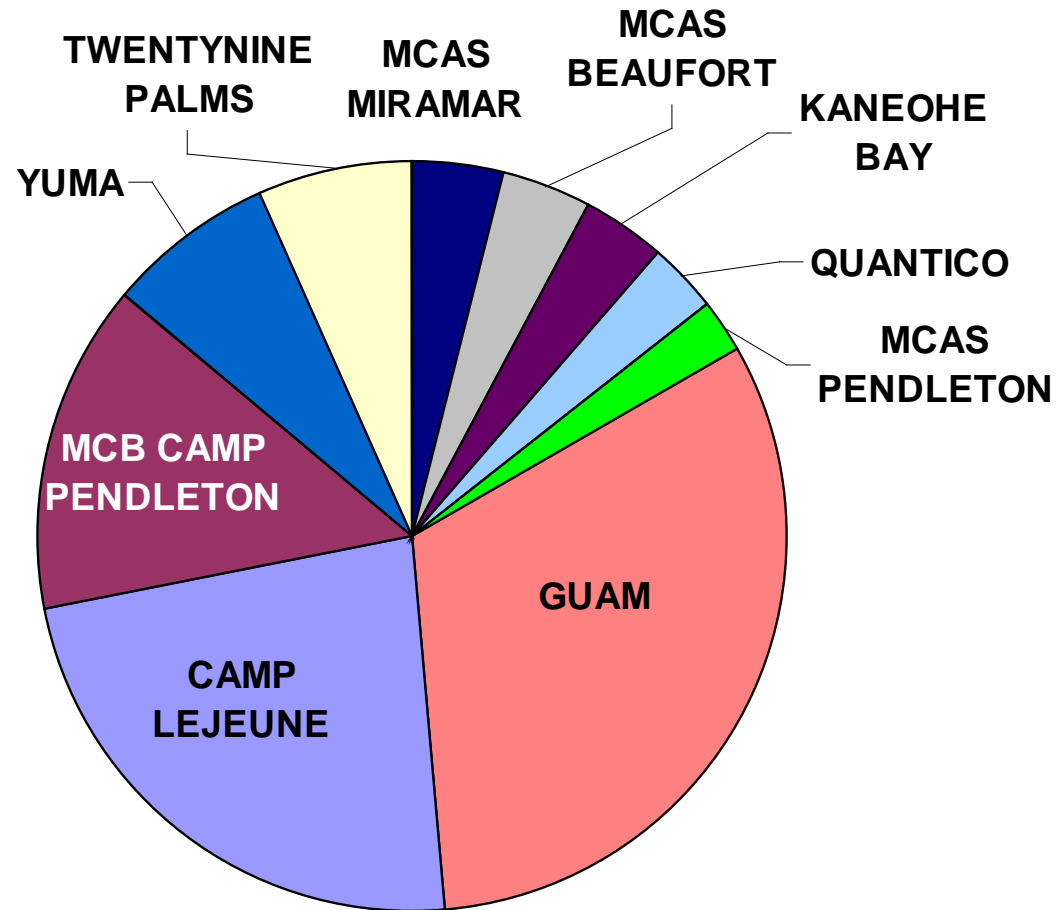
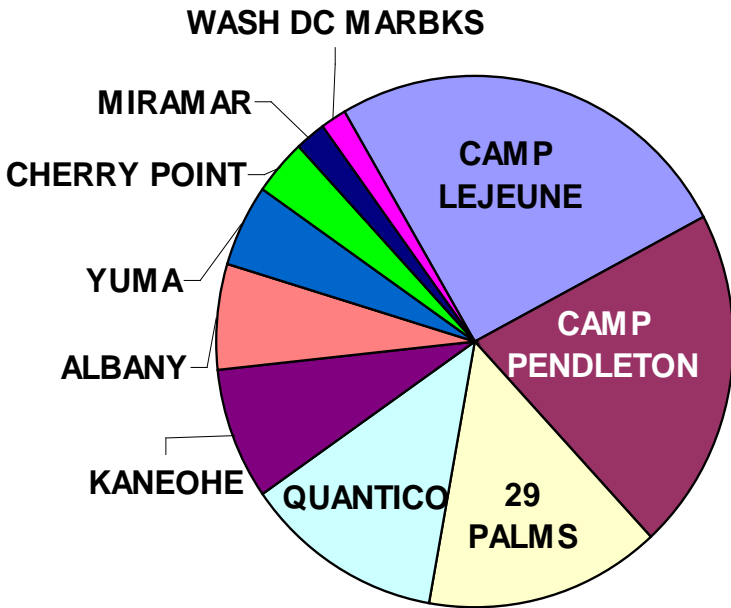
# Sharp Level of Increase in Workload for USMC



## Historical FYs 01-06

**\$1.9B**

(Top 10 \$ only)



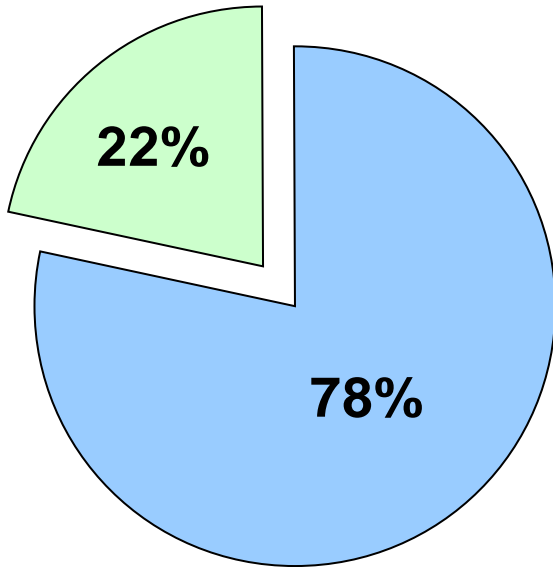
## Projected FYs 10-15 - \$9.1B

(Top 10 \$ only)

# Historical vs Projected Workload Navy and Marine Corps

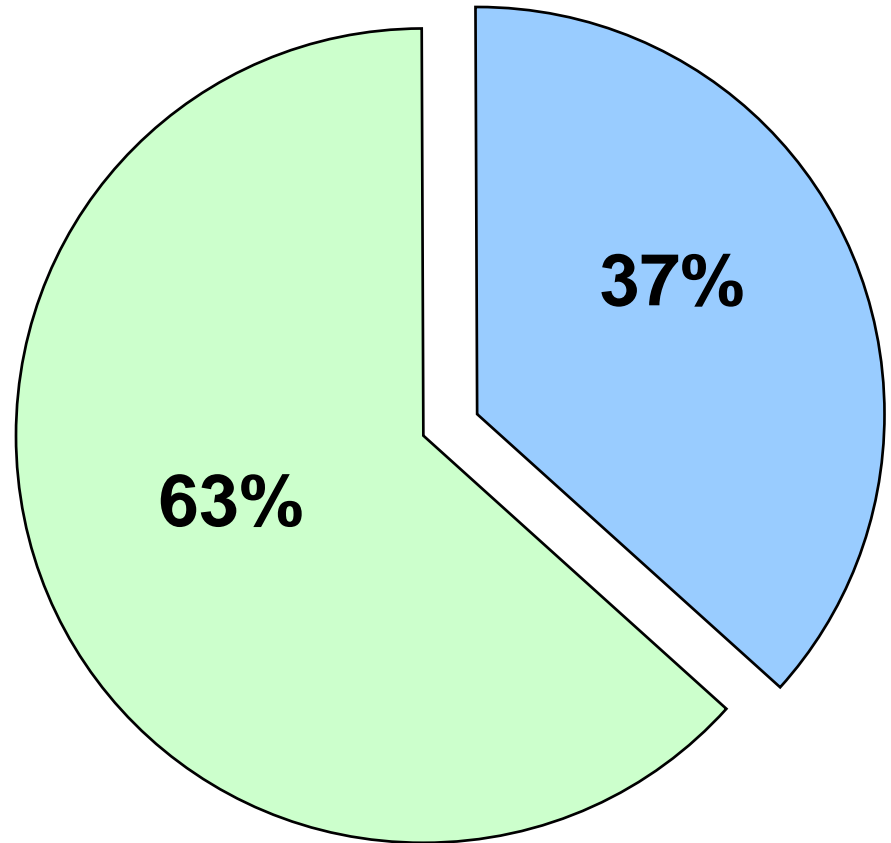


**Historical FYs 01-06  
(MCON and Family Housing)**



**Without Family Housing –  
Navy 80%, USMC 20%**

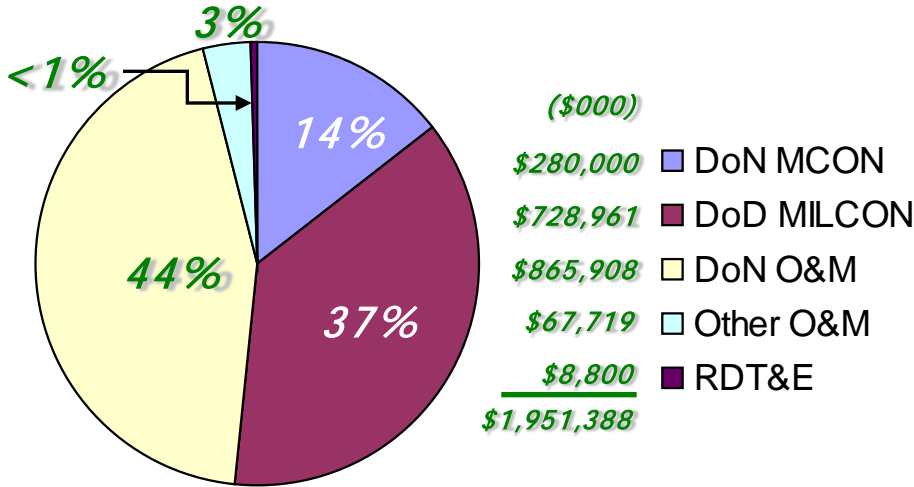
**Projected FYs 10-15  
(MCON only)**



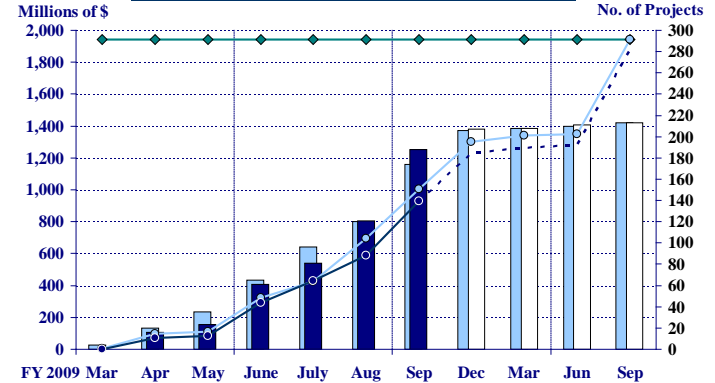
**USMC**

**Navy**

**PR 11 OSD SUBMIT Sep 09**



## ARRA PROGRAM (All Funds, All Sources)



### Department Of Navy

✓MCON appropriated to DoN in 3 “pillars”:

- BQs (\$100M), CDCs (\$80M), Energy (\$100M)

✓FSRM appropriated to DoN:

- Navy (\$657M), Navy-R (\$55M), USMC (\$114M), USMC-R (\$39M)

## DoN Appropriation

Program	Appr. (\$M)	Obligated (\$M) As of 30 Sep	Projects Planned (#)
Facilities Sustainment, Restoration, & Modernization (FSRM)	866	73% (628)	143
Military Construction (MILCON)	280	73% (205)	18
Energy Conservation Investment (ECIP)	67	43% (29)	21
Near Term Energy-Efficient Technologies (RDT&E)	75	65% (49)	12
<b>Total</b>	<b>1,288</b>	<b>71% (911)</b>	<b>193</b>

# *ARRA Acquisition Strategy*



- **Combination of contract vehicles**
  - Existing Global Contingency Construction Contract (GCC) (Cost Plus)
  - Large Global Multiple Award Construction Contracts (GMACC) (combination Cost Plus & Fixed Price)
  - Small business GMACC (Fixed Price)
  - Existing O&M / SRM contract vehicles (Fixed Price)
  - Other existing contracts
- **Expand the use of Project Management Support Contractors, CASUs, the Seaport E contract, and IDIQ contracts**

# ARRA Projects List



Navigation menu: About Us, Organization, Document Library, Contact Us, Sea

NAVFAC Worldwide

- NAVFAC Headquarters (NAVFAHQ)
- NAVFAC Atlantic
- NAVFAC Pacific
- Specialty Centers

Employment

- Join NAVFA
- Internships
- New Employ

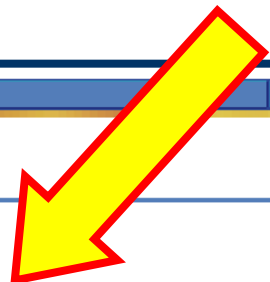
Businesses

- Partner With Us
- Small Business
- Contracting Information
- Media Center
- News Releases
- Press Contacts



NAVFAC > NAVFAC Worldwide > Headquarters > Chief Engineer

Navigation tabs: About Us, Products and Services, Awards, Resources, Contact Us, Job Opportunities



Capital Improvements and the Chief Engineer

Business Line

[American Recovery and Reinvestment Act \(ARRA\) Navy Project List](#)



Joseph E. Gott, P.E.

Welcome to the Home Page of the Chief Engineer and Capital Improvements Business Line. We have an active program in support of the Navy and its broad-based mission. The Chief Engineer is the final technical authority for the Navy, and provides the highest level of interdisciplinary engineering consultation, guidance, expertise, and continuity in the Command. The Chief Engineer provides the Naval Facilities Engineering Command (NAVFAC) and its customers leadership, expertise, management, and specialized services for the following:

[Doing Business with NAVFAC](#)

- Development and implementation of engineering concepts, practices, programs and advanced technologies for improvement of design, construction, and facilities management activities
  - [NAVFAC 2007 Design Awards Program](#)
- Associated strategic liaison necessary for the accomplishment of the above
- Development of policy and guidance, and providing advice and technical assistance to all of NAVFAC. These policies are in keeping with laws, regulations, and higher-level policy requiring responsible engineering practices that ensures that facilities designs meet appropriate standards of health, safety and engineering criteria.
- Professional engineering community management

# ARRA 2009 Energy Project Types



- **O&M,N**

- Metering
- Install PV Systems
- Building Integrated PV Roof Installation
- Facility Energy Improvements
- Geothermal Well Drilling
- Water Conservation
- Exterior Lighting
- Inverter for Solar Array
- Upgrade Central HVAC Plant

- **MILCON**

- Building PV Systems
- Steam Generators
- Energy Eff. Electrical Distribution System Improvements
- Replace Steam & Condensate Lines
- Steam Line Repairs
- Replace A/C Water Distribution System
- Alternative Fuel Pumps
- Solar Car Ports

**Navy has 315 projects\* registered with U.S. Green Building Council for LEED certification**

- **FY06**      **1 project**
- **FY07**      **6 projects**
- **FY08**      **38 projects**
- **FY09**      **116 projects**
- **FY10**      **82 projects**
- **FY11**      **72 projects**

*\* Only buildings funded, owned, operated and maintained by CNIC included*

# ***Energy Enhancement Opportunities***

## **Strategic Alignment**

- **Reduce energy consumption & green house gases**
- **Increase energy security & sustainability**
- **Goal to lower total ownership cost**

## **Technologies**

- 1. LEED Certification / Sustainable Design\***
  - a. Gold or Platinum rating is desired
  - b. Enhanced commissioning of building systems
- 2. Solar Domestic Hot Water Systems\***
- 3. Building Integrated or Mounted Photovoltaic Energy Generation System\***
- 4. Advanced Metering\***
- 5. Air Barriers & Air Barrier Performance Testing**
- 6. Ground Source Heat Pump System**
- 7. Contractor Proposed Enhancements (“Betterments”)**

**\* Technologies 1, 2, 3 & 4 were used to develop the \$190M FY09 programmatic Energy Enhancement strategy (Navy \$55.6M + MC \$134.4M)**

# ***Sustainable Buildings: Statistics***



**Capital Improvements Business Line has tracked Sustainable Design Metrics for our 12 U.S. Green Building Council (USGBC) LEED certified buildings:**

- **30% energy consumption reductions below baseline building performance rating in ASHRAE 90.1-2004**
- **20% water use reductions below baseline requirements in the Energy Policy Act of 1992**
- **50% construction waste diversion from disposal**
- **20% recycled content of construction materials**
- **20% of construction materials extracted, processed, manufactured regionally**

**Navy has 315 projects registered with USGBC for LEED certification (primarily at the SILVER level)**

# High Performance Sustainable Buildings: LEED Implementation



**Atlantic Fleet Drill Hall, Recruit Training Center, Great Lakes, IL**

- LEED Gold
- 58,000 SF
- Completed October 2007
- Layout maximizes daylighting
- Building automation system and variable-speed drives conserve energy by making sure all systems are running at optimal efficiency
- Five-year maintenance plan involves re-commissioning in second and fifth years of operation
- Materials selection prioritized recycled content, energy efficiency, indoor air quality, and local sources and manufacturers

# Personnel Support Facility NAB Little Creek, VA



- 37,754 SF Educational/Admin Bldg
- 21% reduction in energy usage over ASHRAE 90.1
- 50% reduction in water usage
- Over 75% construction waste diverted from landfill
- Energy savings = 146,910 kWh/yr > \$11,370/yr
- Water savings = 517,458 gal/yr > \$3,000/yr
- Construction Cost \$7,500,000
- Sust. Cost \$150,000 = 2% of Const Cost
- ROI/Simple payback = 10% / 10 yrs



“Silver”



# Validation



**Intent is to validate LEED certified facilities - do they actually perform at certification level?**

- **Advanced Metering**
- **Collect data on what works best**
- **Changing criteria, performance technical specifications, FSC documents, etc.**

# *Today's Market Conditions Procurement Approach*



- **Use contract “desirables” and “betterments”, vice options, to obtain energy enhancements**
  - Provides more budget flexibility to deal w/ dynamic market
  - Uses contractors’ technical capability & pricing knowledge during BVSS / proposal evaluation stage
- **Desirables – Government identified improvements/enhancements that can be provided within the project budget**
- **Betterments – Contractor identified improvements/enhancements that provide additional quality and/or value to the basic RFP requirement**

# Standard DB RFP Templates



- **NAVFAC constructs numerous facility types – many are common**
  - Basic requirements are controlled by Unified Facilities Criteria (UFCs)
  - Size, exterior facade, interior decor and site vary by geographic location
- **Standard DB RFPs**
  - Navy BEQ (market-style)
  - Fitness Centers
  - Dining Facility
  - Child Development Centers
  - Fire Stations
  - Aircraft Maintenance Hangars
  - Magazines
  - Armories
- **Future Templates for Admin, Training, and Maintenance/Production**
- **Templates will be available on-line in June**

# ***Construction Management System***



- **New Construction Management System (eFiles) under development**
- **Roll-out expected Spring of 2010**
- **Adobe LiveCycle being used, and creating Windows Explorer folder drag-and-drop feel with folder permissioning**
- **PKI Certificates will be required for access by Designers/Construction contractors**

# *Transfer and Acceptance of Military Real property*



- **OSD & ASN policies require DD1354 to transfer real property from construction agent to client**
- **UFC 1-300-08 located on the WBDG and contract guidespecs provide specific requirements**
- **Designer of Record works with NAVFAC to fill out template DD1354 to identify all assets and quantities**
- **Construction contractor works with NAVFAC to adjust for modifications and populate all costs**
  - Final version required at Beneficial Occupancy

***Questions?***