NDIA Gold Coast
Small Business Procurement Event

13 August 2014

Rear Admiral Patrick “Boog” Lorge
Commander, Navy Region Southwest
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Standard Form 298 (Rev. 8-98)  
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Worldwide Support to the Fleet

- 12 Regions world-wide
- 70 Installations
National Rebalance to the Pacific

Includes:
- 40 nations
- 60% of the world’s population
- More than half of the world’s surface
- 30% of the world’s GDP
- 70% of the world’s oil transits through the Strait of Malacca

- Top 4 trading partners:
  - Canada, China, Mexico, Japan
- 6 largest militaries:
  - China, U.S., India, Russia, North Korea, South Korea

San Diego’s Navy is Critical to National Security

60% of the fleet to the Pacific
Train Locally, Operate Globally

All carrier air wings train in Southwest airspace.

All west coast strike groups & expeditionary strike groups train in ranges off California.

67% of the nation’s military training airspace is in the Southwest.
Readiness Kill Chain

Governance / C2 – Drives integration & synchronization vertically across weapons systems & horizontally across the readiness lifecycle

Means
- Personnel
- Equipment
- Supplies
- Training
- Ordnance
- Networks

• Installations
• Community
• Industry
• Elected Leaders

Ways
- RESOURCE / POLICY
- ACCESS / PROCURE
- PRE-INTRO

Means
- Surface
- Aviation
- Submarines
- C4ISR/CYBER
- NECC
- OP/TAC HQs

Common Actions

Synchronized Training

Ends
- FRTP
  - MAINT
  - BASIC
  - INTEGRATED
  - DEPLOY & SUSTAIN

Foundation for all Lines of Operation is the Shore

Shore Long-Range Planning = BOLT
NRSW Lines of Operation

- **Rebalance**
  - Near, Mid, Long

- **Energy**
  - Culture
  - Efficiency
  - Sustainability
  - Security

- **Encroachment**
  - Development
  - Regulatory
  - Legislative

- **Environment**
  - Stewardship: Air, Sea, Land
Navy Shore Energy Strategy

Transform Navy from Culture of Consumption to Culture of Conservation Through Transparency & Accountability

Energy Security:
• Redundancy
• Resiliency
• Reliability

Energy Efficiency First

The Right Technology at the Right Time
• Watch
• Partner
• Lead

“Compliance” is Unique to the Shore

Navy Energy Culture

Renewable Energy & Sustainability

Energy Security & Compliance
Shore Energy Starts with Shore
ATFP Program Architecture
Navy Smart Grid

- Market Driven Near Real Time Energy Management
- Demand Response, Peak Shaving, Load Leveling
- Condition Based Targeted Maintenance and Repair
- Predictive maintenance, Remote Diagnostics
- Cyber secure utilities and energy systems

Building Control Systems (DDC)
Advanced Metering Infrastructure (AMI)
Utilities Control Systems (SCADA)

Systems Integration Software & Hardware
Personnel Training
Organizational Change

SMART GRID
Operational Guiding Principles

Guiding Principle 1
The Capabilities shall enable the means to achieve a better financial “bottom line.”

Guiding Principle 2
The Capabilities shall enable the means to achieve improved Mission Readiness AND shall NOT risk Mission Readiness through information technology.

Guiding Principle 3
The capabilities shall enable recognition of new opportunities and enable the ability to LEAP forward when new technologies, new regulatory changes, ... new anything appear.

Imperatives to SmartGrid Strategic Success
Smart Grid Architecture

**Smart Grid**
- Advanced Metering Infrastructure
- Substation & Distribution Automation
- Two-Way Communications & Control
- Adaptive Relaying

**Demand Side Management**
- Energy Efficiency Technologies
- Dynamic Voltage Regulators
- Smart Sockets
- Automated Load Shedding

**Energy Storage**
- Vehicle-to-Grid
- Hydrogen
- Batteries

**Cyber Security**
- Virtual Secure Enclave
- Live Action Network
- Secure Distributed Monitors
- Situational Awareness

**Dynamic Control**
- Load Control Systems
- Islanding Control System
- Energy Management System
- Seamless Grid Synchronization

**Renewable Integration**
- Photovoltaic
- Wind
- Fuel Cells
- Biofuel
NAVY REGION SOUTHWEST
Where the Pacific Fleet Begins