Experimental Forward Operating Base (ExFOB)
27 Jan 2010

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Commanding General
Marine Corps Warfighting Laboratory
Key Stakeholders
Energy

Dependent on Contractors (Major FOBs completely dependent)

On the Job Training (Note: Generator Manual)

Inefficient Use (3 Gens Running all well below opt)

Propane Local Sources

Afghan Solar

Lack of Trained Gen Mechs (Plt Cmdr is the “Gen Mech”)
Potable water is available and being used, concern is distribution.

Lake of Bottle Water

Contract Drilling

Well Installed On FOB by Local Afghans

Potable Water Available (Concern is Distribution)
Shelter

Using on hand solutions

Need Long Term Efficient Solutions
ExFOB Purpose

• Optimize Forward Operating Base (FOB) Design
  – Balance Functionality with Efficiency
  – Improve operations of USMC FOB tactics, techniques, and procedures

• Provide Industry an Opportunity to Demonstrate
  – Technology
  – Optimization Tools and System Design
ExFOB Timeline

- 15-19 Feb 10 - Phase-1
  - USMC Only
  - Optimize USMC Equipment

- 22 Feb – 5 Mar – Phase-2
  - Industry Demonstrations (COTS)

- NLT May – Initial “Implementation Team” to OEF

- 2 – 13 Aug – Phase-3
  - Industry Demonstration of technology other than COTS
ExFOB Demonstrations Desired

• General Characteristics
  – Transportable via Small Tactical Vehicle
  – Commercial Off the Shelve (ExFOB Phase-2)
  – Future Technology Demonstrations (ExFOB Phase-3)

• Water
  – Purification (75-125 gals/hr)
  – Distribution (Small Packaging Systems)

• Energy
  – Generation (2kW-100kW)
  – Distribution (Micro-Grid)

• Energy Efficient Structures
  – Mobile / Reusable
  – Energy Efficient
ExFOB Concept of Operations
Location- Marine Corps Systems Command
Transportation Demonstration Support Area (TDSA)
Phase I & II 16 Feb – 5 Mar 10
Notes to Industry

- All participation is “at own risk.”
- No funding available from the Marine Corps.
- No support or security from the Marine Corps.
- All water systems must be closed loop.
- Allow USMC to operate and evaluate systems.
- Systems or services determined at the ExFOB as suitable for immediate implementation will be procured and deployed to OEF.
- If missed responding to ExFOB RFI deadline of 15 Jan 10, submit information for review to Clifford Anderson (Logistics S&T Thrust Manager, Office of Naval Research, Code 30)
Questions