



Experimental Forward Operating Base (ExFOB) 27 Jan 2010

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Commanding General
Marine Corps Warfighting Laboratory



Key Stakeholders





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Energy



Dependent on Contractors
(Major FOBs completely dependent)



On the Job Training
(Note: Generator Manual)



Inefficient Use
(3 Gens Running all well below opt)



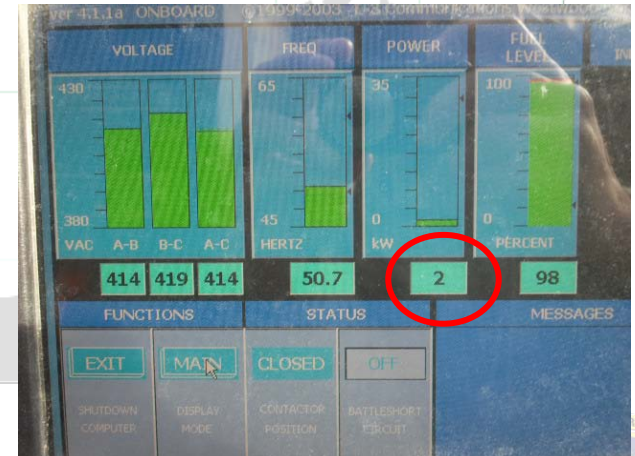
Lack of Trained Gen Mechs
(Plt Cmdr is the "Gen Mech")



Propane
Local Sources



Afghan
Solar



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Water



Lake of Bottle Water

Potable water is available and being used concern is distribution.



Potable Water Available (Concern is Distribution)



Well Installed On FOB by Local Afghans



Contract Drilling



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Shelter



Using on hand solutions



Need Long Term Efficient Solutions



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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

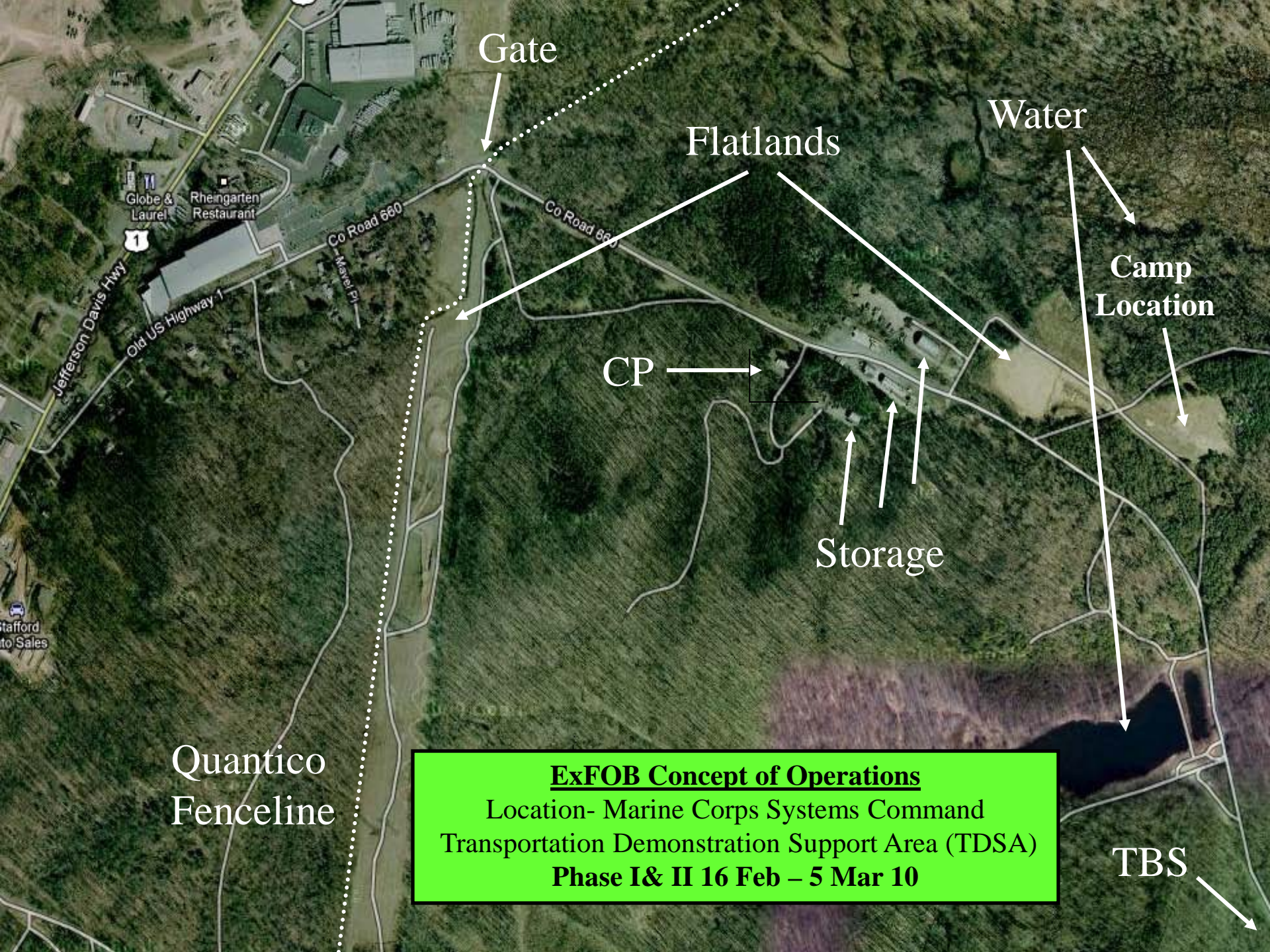
- 15-19 Feb 10 - Phase-1
 - USMC Only
 - Optimize USMC Equipment
- 22 Feb – 5 Mar – Phase-2
 - Industry Demonstrations (COTS)
- NLT May – Initial “Implementation Team” to OEF
- 2 – 13 Aug – Phase-3
 - Industry Demonstration of technology other than COTS



ExFOB Demonstrations Desired



- General Characteristics
 - Transportable via Small Tactical Vehicle
 - Commercial Off the Shelf (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



Gate

Flatlands

Water

Camp Location

CP

Storage

Quantico Fenceline

ExFOB Concept of Operations
Location- Marine Corps Systems Command
Transportation Demonstration Support Area (TDSA)
Phase I& II 16 Feb – 5 Mar 10

TBS

Globe & Laurel
Rheingarten Restaurant
Jefferson Davis Hwy
Old US Highway 1
Co Road 660
Mares Pl

Stafford
to Sales



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

