Basic Expeditionary Airfield Resources (BEAR) Mission Brief
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### Abstract

**7th Bi-Annual DOD JOCOTAS Meeting with Rigid & Soft Wall Shelter Industry & Indoor & Outdoor Exhibition, 1-3 Nov 2011, Panama City Beach, FL**

### Distribution/Availability Statement

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<table>
<thead>
<tr>
<th>a. REPORT</th>
<th>b. ABSTRACT</th>
<th>c. THIS PAGE</th>
</tr>
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### Limitation of ABSTRACT

Same as Report (SAR)

### Number of Pages

25

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**Standard Form 298 (Rev. 8-98)**

Prescribed by ANSI Std Z39-18
Overview

• Organization
• BEAR Today
• Promo Tape
• Major Initiatives
• Modernization
• Challenges
• Over the Horizon
I have said many times before—and I am proud to repeat—that our logistical capabilities are the foundation of our Nation’s military power…

Providing the world’s most advanced logistical support to our warfighters, particularly in remote areas, is a daunting challenge in itself; but, we also face the challenge of preparing for the future by modernizing and recapitalizing our aging fleet. It is especially difficult to do both in today’s extremely constrained fiscal environment of mounting national deficits and flattening defense budgets.

We therefore must achieve greater efficiencies by shifting as much from “tail” to “tooth” as possible, to maintain our operational advantage while contending with decreased purchasing power.
ACC/A4 Organizational Chart

A4 Director
Maj Gen Mark Atkinson
A4-2 Deputy Director
Mr. Eugene Collins

A4-3
Associate Director
Col Anthony Baity

A4-MA
Mobilization Assistant
VACANT

A4G
ANG Advisor
Col Steve Mehring

A4M
Systems Support
Col Randy Mauldin

A4Q
Mx Mgmt/Log Assessments
Col Geoffrey Parkhurst

A4V
Combat Aircraft
Col Mike Stickney

A4R
Log Readiness/Plans
Col Joe Torres

A4C
C2ISR
Col Ronald Roux

A4H
Reserve Advisor
Col Anthony Baity

A4P
Resources Integration
Ms. Sara Keller

A4W
Munitions
Col Peter Hofelich
BEAR Section

- **Modernization**
  - Ms. Diane Mofield, Civ, BEAR Modernization Program Analyst
  - Mr. Bill Lawrence, Civ, BEAR Modernization Logistics Manager
  - WSO Liaison: Mr. Wilfrid Jean, Ctr, BEAR, Weapons System Office Liaison

- **Sustainment**
  - (GS-12 Vacant), BEAR Sustainment Logistics Manager
  - Ms. Kim Vollman, Ctr, BEAR Sustainment Program Analyst
  - MSgt Harriet Dailey, Supt, Global BEAR Management
  - MSgt Pedro Ramos, Supt, Global BEAR Equipment & Spares Management

- **Readiness**
  - Mr. Jeff Leviner, Ctr, BEAR Readiness Logistics manager
  - 2G MSgt) (Vacant), Global BEAR Systems & UTC Manager
  - (2G MSgt) (Vacant), Global BEAR Systems and Readiness Management
  - (2G MSgt) (IMA) BEAR Systems Logistics Manager

Mr. Mel Miles, Civ, Chief, Global BEAR Management
(21R (04)), (Vacant) OIC, BEAR Global Management

Mr. Jeff Leviner, Ctr, BEAR Readiness Logistics manager
2G MSgt) (Vacant), Global BEAR Systems & UTC Manager
(2G MSgt) (Vacant), Global BEAR Systems and Readiness Management
(2G MSgt) (IMA) BEAR Systems Logistics Manager
Program Description

- “Key AEF Enabler” - supports ACS beddown of deployed aircraft and personnel at austere locations where little or no infrastructure exists

- Unique AF capability w/program managed like a weapon system (cradle-to-grave)

- Direct mission support of AFFOR with infrastructure, flightline, and personnel teams (structure erection)

- Authorizations based on Strategic Planning Guidance
  - $1.6B auth assets to support:
    - 2,239 aircraft
    - 134,364 personnel
    - 10 austere locations & 54 semi-austere locations
# BEAR

## (Unique Governing Structure/Community)

<table>
<thead>
<tr>
<th>Key Air Force Players</th>
<th>General Officer Steering Group (GOSG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAF A4, A4/7Z, 49MMG, AFCESA, WSO, ACC A7, ACC A8, Storing MAJCOMs (AFCENT, PACAF, USAFE, AMC) Air components: USAFCENT for USCENTCOM; PACAF for USPACOM; AMC for USTRANSCOM; and USAFE for USEUCOM. Each perform storing command functions and have BEAR Systems assigned. ACC is the primary in CONUS, providing BEAR systems as tasked.</td>
<td>GOSG is chaired by AF/A4 and this is the Air Force’s Office of Primary Responsibility for BEAR management, policy, and procedures. The BEAR GOSG is the Air Force’s executive body charged with executive level responsibility for BEAR. The GOSG is responsible for the oversight and strategic direction of the BEAR Program.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Systems Readiness Board (BSRB)</th>
<th>Integrated Process Team (BIPT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC/A4X chairs the BSRB. The BSRB is the O-6 level management group that directs and oversees the AF BEAR Program. The BSRB will meet at least annually, generally in May (or within three months of BIPT). If deemed necessary, the BSRB chair may call for special out-of-cycle meetings to resolve or discuss.</td>
<td>Chaired by A4RX. BIPT integrates and coordinates day-to-day BEAR management activities for HAF. It is the primary group for coordinating activities of functional communities in the multi-functional BEAR management process. The BIPT is the initial entry or gatekeeper for issues, ideas, concerns, etc., concerning all aspects of the BEAR program. BIPT prioritizes issues and presents issues requiring action to the BSRB. The BSRB will meet at least annually, generally in Feb.</td>
</tr>
</tbody>
</table>
Capabilities

• BEAR supports limited and “bare base” operations defined as a location with a runway/taxiway, adequate parking space for aircraft, and a source of potable water

• Consists of a variety of systems to support CAF and MAF operations:
  • Billeting
  • Messing
  • Hygiene
  • Power
  • Water
  • Environmental
  • Aircraft Shelters
  • Flightline Equipment
  • Industrial Equipment
BEAR Assets

Base Power (Generator Sets)

Aircraft Hanger

MAAS

Self Help Laundry

Civil Engineers Erecting shelters

ISO containers (BICON, TRICON 20 FT)

Shower Shave

ESC MAINT Shop

FDECU
BEAR Assets

Mobile Electric Power (MEP) 806

Mobile Electric Power (MEP) 12

Mobile Electric Power (MEP) 805

Polartherm 130 K Heater

Environmental Control Unit (ECU) -9

Expeditionary Airfield Lighting System (EALS)

Single Pallet Expeditionary Kitchen (SPEK)

Reverse Osmosis Water Purification Unit (ROWPU)

25K Gal Waste Tank with Aeration Unit
## Major Taskings

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>COMMAND</th>
<th>TASKING</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEF (Afghanistan)</td>
<td>AFCENT</td>
<td>HF Housekeeping Set (1100)</td>
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<tr>
<td>OEF (Afghanistan)</td>
<td>ACC</td>
<td>550 Initial Housekeeping Set</td>
<td>3</td>
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<tr>
<td>OEF (Afghanistan)</td>
<td>ACC</td>
<td>Mep-12 Generator</td>
<td>8 ea</td>
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<tr>
<td>OEF (Afghanistan)</td>
<td>USAFE</td>
<td>550 Initial Housekeeping Set</td>
<td>6</td>
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<tr>
<td>OEF (Afghanistan)</td>
<td>PACAF</td>
<td>Mep-12 Generator</td>
<td>12 ea</td>
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<tr>
<td>OEF (Guantanamo)</td>
<td>ACC</td>
<td>550 Initial Housekeeping Set</td>
<td>1</td>
</tr>
<tr>
<td>OEF (Guantanamo)</td>
<td>ACC</td>
<td>550 Follow-on Housekeeping Set</td>
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<tr>
<td>Operation Tomodachi</td>
<td>PACAF</td>
<td>ROWPU</td>
<td>15 ea</td>
</tr>
<tr>
<td>Operation Tomodachi</td>
<td>PACAF</td>
<td>Low Power Generators (w/cables, etc)</td>
<td>59 ea</td>
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<tr>
<td>Operation Tomodachi</td>
<td>ACC</td>
<td>ROWPU Filters for hazardous waste</td>
<td>60 ea</td>
</tr>
<tr>
<td>Odyssey Dawn</td>
<td>USAFE</td>
<td>FDECU</td>
<td>96 ea</td>
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</table>
## Major Taskings (con’t)

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>COMMAND</th>
<th>TASKING</th>
<th>QTY</th>
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<tbody>
<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>Low Power Housekeeping</td>
<td>2</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>SDC</td>
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<tr>
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<td>Billeting</td>
<td>60 ea</td>
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<tr>
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<td>USAFE</td>
<td>Power Distribution</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>Hygiene</td>
<td>16 ea</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>Self-Help Laundry</td>
<td>1</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>Water Extension</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>RALS</td>
<td>3</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>TF2 Lightcart</td>
<td>16 ea</td>
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<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>Tractor/25ft Trailer</td>
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</tr>
<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>6 pax Truck</td>
<td>1</td>
</tr>
<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>Waste Water Truck</td>
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</tr>
<tr>
<td>Operation Odyssey Dawn</td>
<td>USAFE</td>
<td>13K Forklift</td>
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</table>
## Major Taskings (con’t)

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<th>COMMAND</th>
<th>TASKING</th>
<th>QTY</th>
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<tr>
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<td>Classified</td>
<td>Low Power Housekeeping</td>
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<td>Classified Operation</td>
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<td>ADR-300</td>
<td>12 ea</td>
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<td>Classified Operation</td>
<td>Classified</td>
<td>AM2 Matting</td>
<td>16 ea</td>
</tr>
<tr>
<td>Classified Operation</td>
<td>Classified</td>
<td>Power Distribution</td>
<td>2</td>
</tr>
<tr>
<td>Classified Operation</td>
<td>Classified</td>
<td>Kitchen</td>
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<tr>
<td>Classified Operation</td>
<td>Classified</td>
<td>Self-Help Laundry</td>
<td>2</td>
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<tr>
<td>Classified Operation</td>
<td>Classified</td>
<td>LAMS</td>
<td>4</td>
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<tr>
<td>Classified Operation</td>
<td>Classified</td>
<td>Hygiene</td>
<td>4</td>
</tr>
<tr>
<td>Classified Operation</td>
<td>Classified</td>
<td>TF2 Lightcart</td>
<td>20 ea</td>
</tr>
</tbody>
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Major Initiatives

- BEAR Global Management
- Joint Initiatives
  - Promote commonality
  - Leverage Acquisition
- Modernization
  - Efficiencies
  - New assets
**Major Initiatives (Joint)**

- **Joint Expeditionary Basing-Working Group (JEB-WG)**
  - Examine engineering standards and opportunities to capitalize on expeditionary basing equipment commonality
  - Over 20 Items Identified for Joint Acquisition
  - JCTD and Micro Grid Initiatives

- **Operational Logistics Efficiencies**
  - Joint Base Camp Configuration

"Achieving Commonality & Interoperability Through Joint Solutions"
• ACC/A4RX Modernization Plan - Modernization and ways to mitigate fossil fuel use & promote Renewable Energy source
  • Aligned BEAR w/AF energy goals, objectives, metrics (capitalize on efficiencies)
• AF Energy Plan 2010 - Change how we think and act
• Goals - The Air Force Energy Plan is built upon three pillars:
  • *Reduce Demand*
  • *Increase Supply*
  • *Culture Change*
• Objectives - Increase Alternative Fuel use, Renewable Energy, Utilize Public-Private Partners, Increase Conservation & Improve efficiency
Air Force Energy Plan Aligns with the Operational Energy Strategy

**Major Initiatives (Energy initiatives)**

**MORE FIGHT, LESS FUEL:** Reduce the demand for energy in military operations

**MORE OPTIONS, LESS RISK:** Expand and secure the supply of energy to military operations

**MORE CAPABILITY, LESS COST:** Build energy security into the future force

**REDUCE DEMAND:** Reduce aviation, ground operations, and installation energy demand

**INCREASE SUPPLY:** Increasing the amount of energy supplies available to enhance our nation’s energy security

**CULTURE CHANGE:** Increases energy awareness and promote new ideas and methodologies for operating more efficiently
## Summary BEAR initiatives

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Program Type</th>
<th>BCA (Y/N)</th>
<th>AF Program Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Basic Expeditionary Airfield Resources (BEAR) Energy Efficient Shelter Systems</td>
<td>Demonstration</td>
<td>Y</td>
<td>X</td>
</tr>
<tr>
<td>2. BEAR Installation Load and Power Management System</td>
<td>Development</td>
<td>Y</td>
<td>X</td>
</tr>
<tr>
<td>3. Smart Shelter Energy Management System</td>
<td>Development</td>
<td>Y</td>
<td>X</td>
</tr>
<tr>
<td>4. BEAR “BLASTEM” BEAR Large Shelter Technology for Energy Management</td>
<td>Development</td>
<td>Y</td>
<td>X</td>
</tr>
</tbody>
</table>
Modernization Efforts

- **BEAR Power Unit (BPU)**
  - Contract award Feb 2010, Cummins, $245M

- **Expeditionary Airfield Lighting System (EALS)**

- **Hygiene (Shower/Shave/Latrine) - RCM In work**

- **Flies and Inserts purchased**
  - Sent to Al Udied for short term energy initiative; reduces solar load & increases ECU energy efficiency; $8.6M

- **TRICOLD Refrigerated Container System (TRCS)**
  - Joint effort with Army; contract awarded Jun 2011; $7.5M OCO & $21.7M baseline

- **Large Area Maintenance Shelter (LAMS) - RCM required:**
Modernization Efforts

- AM2 Matting/Large Shelter Flooring – *(RCM required)*
  - Seeking new technology – lighter, stronger
- Pyrolysis Waste Disposal System (PWDS)
  - Seeking COTs Technology
- Water Source, Production, and Distribution Systems
  - Contract award Jan 2010, JGB, $16.3M
- Water Freeze Protection – *(RCM required)*
- Energy Initiatives – *(RCM required)*
  - Shelter (solar fly/insulation); Environmental Control Unit (ECU);
    Smart Secondary Distribution Center (SDC); $29M FY16 & 17
- Small Shelter Flooring
  - Contract award Dec 2010; ADS Inc., $3.1M
  - Kitchen and mortuary shelters
Challenges

- Modernization:
  - Continue to fight for dollars
  - Work with industry for stronger, smarter, lighter, smaller footprint, more energy efficient
  - Continuous improvement

- Continue Joint Initiatives:
  - Leverage Joint initiatives and efficiencies
  - Joint Expeditionary Basing-Working Group
  - Engineering standards & equipment commonalities

- Reconstitution efforts from OIF and OEF
  - Access, reconstitute and fill holes
Over the Horizon

- Remain Relevant/Proactive Global Management
  - Update guidance & doctrine
  - Improve Command & Control
  - Manage & advocate modernization and sustainment funding
- Continue to refine Requirements Determination Process & Management of assets
  - Optimum capability at least cost
Questions?