Air National Guard
Distributed Training Operations Center

Colonel Brock Strom
Director, Air and Space Operations
ANG Simulator Program Executive

Presented By:

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937.257.8092
Briefing Overview

- Organizational Overview
- Unique ANG Requirements
- Current Training System Programs
- Projected Future Training System Programs
- Challenges to Industry
• ANG Distributed Mission Operations (DMO) program comes under Directorate for Air and Space Operations
  • Action Officer is Mr. Ron Kornreich

• Other key node is Distributed Training Operations Center or DTOC, located in Des Moines, Iowa
  • Directed by LtCol Alan Huey
Organizational Overview

- ANG DMO Program conceptualized in 2001
  - Reaction to lack of DMO training for combat air forces and
  - High cost to participate in active duty Air Force Program
- Envisioned to be an 80% solution at 20% of the cost

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Organizational Overview

• ANG is not funded for system acquisition
  • Known as an “Operations and Maintenance Command” or “User Command”
  • We maintain what we have, but are not generally funded to field new major systems
  • Accomplishments to date have been on a shoestring budget

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Guard Requirements

Why a Separate Air National Guard Program?

- Driven by limited infrastructure at units
- Seven day operational support (UTA Drills, weekends & nights)
- Capability for remote pilot SME instruction
- Capability to remotely support on-call CLS
Guard Requirements

Why a Separate Air National Guard Program?

- Multi unit (flying & C2) event scheduling
- Centralized long haul network management
- Air Force contract not flexible enough for ANG needs

Ops Tailored to ANG Requirements

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Current DMO Program

• **A-10 Full Combat Mission Trainers**

• **Distributed Training Operations Center (DTOC)**

• **Mission Training Engineering Center (MTEC)**

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Current DMO Program

- **A-10 Full Combat Mission Trainers**
  - Currently being upgraded to full field of view
  - Currently on line at Boise, Bradley, and Battle Creek, 3 AFRC sites and Active Duty sites
  - One on order for FY 2005 delivery
Current DMO Program

• Distributed Training Operations Center (DTOC)
  • Network Control Center
  • Master Portal management (with NG)
  • Event / Aircrew Scheduling
  • White Cell and Red Air insertion
  • Remote Maintenance
  • Remote Instruction

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DTOC
Event Control Center

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DTOC
Operational Network Today
DTOC Additional Nodes in Six Months
Current DMO Program

• **Mission Training Engineering Center (MTEC)**
  - ANG & AFRC Funded
  - Technology Transitions
  - Systems Integration
  - Technology Innovations and Insertions
  - Co-located With AFRL/HEA

*Focus Is On GOTS/COTS Low Cost Development*

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Projected Future Training System Programs

• ANG DMO Program is a building block approach
• Start with A-10s and CASNET
• Build out DMO infrastructure with compatible networkable devices that are affordable and provide effective training.
Projected Future Training System Programs

• **Areas of Concentration:**
  • A-10C FMT
  • Command and Control Integration into DMO
  • F-16 Block 30
  • KC-135 E/R left seat flight crew
  • KC-135 E/R boom operator
  • C-130 E/H left seat flight crew
  • Virtual Aggressor
  • HH-60G Block 152D
### Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>A-10C FMT follow-on procurement and sustainment (RFP published)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>6 devices</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$3M per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>1 device in FY 2006 Remaining stepped FY 07-09</td>
</tr>
</tbody>
</table>

*The DTOC – A DMO Force Enabler!*
<table>
<thead>
<tr>
<th>Item</th>
<th>F-16 Block 30 Full Combat Mission Trainers - Unit level, must fit stringent space requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>2- Four ship regional devices 20 – Two ship unit devices</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$6M per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>12 devices in FY 2006 Remaining stepped FY 07-09</td>
</tr>
</tbody>
</table>
### Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>KC-135 Left Seat Part Task Trainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>20 devices</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$50K per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>6 devices in FY 2005</td>
</tr>
<tr>
<td></td>
<td>6 in FY 2006, 8 in FY 2007</td>
</tr>
</tbody>
</table>

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## Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>KC-135 Boom Operator Training System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>1 device for the DTOC; 19 devices to field units</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$50K per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>12 devices in FY 2006 Remaining stepped FY 07-09</td>
</tr>
</tbody>
</table>
## Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>Virtual Aggressor reconfigurable cockpit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>4 devices</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$1.9M per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>2 in FY 2005</td>
</tr>
<tr>
<td></td>
<td>2 in FY 2006</td>
</tr>
</tbody>
</table>

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## Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>HH-60 high fidelity, non motion cockpit and cabin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>4 devices</td>
</tr>
<tr>
<td></td>
<td>1 at MTEC and 3 at field units</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$8M per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>1 Device in FY 2006</td>
</tr>
<tr>
<td></td>
<td>Remaining 3 in FY 2007</td>
</tr>
</tbody>
</table>
## Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>C-130 Left Seat Part Task Trainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>25 devices</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$50K per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>10 devices in FY 2006 5 each in FY 07-09</td>
</tr>
</tbody>
</table>
## Challenges to Industry

<table>
<thead>
<tr>
<th>Item</th>
<th>TACP simulator, similar to JTAGS but lower fidelity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>2 for DTOC simulation enhancements</td>
</tr>
<tr>
<td>Est. Price/Unit</td>
<td>$200K per device</td>
</tr>
<tr>
<td>Need Date</td>
<td>1 Device in FY 2006</td>
</tr>
<tr>
<td></td>
<td>1 Device in FY 2007</td>
</tr>
</tbody>
</table>

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QUESTIONS?

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