Welcome to the
Air Force Civil Engineer Center Program Briefing

Moderator: Col. Sal Nodjomian, P.E., F.SAME, USAF (Ret.), Executive Vice President, Matrix Design Group

Speakers:
• Joe Sciabica, SES, Director, AFCEC
Air Force Civil Engineer Center

Integrity - Service - Excellence

AFCEC Program Briefing

Mr. Joe Sciabica, SES
Director
11 Dec 14
SAME Small Business Conference
**AFCEC FY15 Draft Strategic Acquisition Plan Overview (SAPO)**

**AFCEC - $M**

- **AFCEC/772**: 1,105.9, 36%
- **USACE**: 718.4, 24%
- **NAVFAC**: 38.3, 1%
- **GSA**: 42.2, 1%
- **Base CONS**: 743.4, 25%
- **Other**: 390.0, 13%

**Does not include MILCON Program**

**Other Agents include Host Nations, Other Federal Agencies, and Third Party Energy Initiatives**

<table>
<thead>
<tr>
<th>Agent</th>
<th>%</th>
<th>$M</th>
<th># Req</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFCEC/772</td>
<td>36%</td>
<td>1,105.9</td>
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<td>718.4</td>
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<td>GSA</td>
<td>1%</td>
<td>42.2</td>
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<td>Base CONS</td>
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<td>743.4</td>
<td>2,877.0</td>
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<td>Other</td>
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<td>390.0</td>
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<td><strong>TOTAL</strong></td>
<td>100%</td>
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All projected FY15 procurements are based on the best information available. Information presented herein is subject to modification and is in no way binding on the government. More specific information relating to any individual item or class of items will not be furnished until the proposed acquisition is synopsized through the Government Wide Point of Entry (GPE). Small business set-asides may be involved, but that determination will be made only when acquisition action is initiated. Consult the Procuring Contracting Officer (when identified) for further information.
AFCEC Strategic Acquisition Planning

- AFCEC will continue to utilize a variety of execution agents to meet mission requirements
  - Execution through 772 ESS is our first choice
  - Must set enterprise-wide execution priorities within resource constraints

- Strategic acquisition & partnering will be our overall strategy for meeting requirements...at all levels

- Provides transparency of processes to internal/external stakeholders

- Industry can better identify opportunities that are relevant to their areas of expertise

- Postures industry opportunity to capitalize on contracts with other agents to execute AFCEC mission
AFCEC Strategic Acquisition Planning

- Expect more robust requirements definition process
- Expect increase in design-bid-build approach (traditional construction)
  - Goal: Increased emphasis on cost as driving factor for award
  - Goal: Reduce/limit change orders/adjustments post award
- Expect strategies across best value award continuum targeted to project scope and complexity
  - Goal: Streamline process for less complex projects (LPTA)
  - Goal: Streamline process for more complex projects (Trade-off)
- Expect continued early industry involvement

AF is committed to open and transparent acquisition processes

Integrity - Service - Excellence
<table>
<thead>
<tr>
<th>Major Command</th>
<th>Installation</th>
<th>Project Number</th>
<th>Project Title</th>
<th>Cost Estimate Range</th>
<th>Contracting Agent</th>
<th>Estimated Award</th>
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<tr>
<td>ACC</td>
<td>AVON PARK AIR FORCE RANGE</td>
<td>ASPR090017</td>
<td>Design - REPAIR JENNINGS and UTES ROAD</td>
<td>Less than $25,000</td>
<td>Base</td>
<td>1-Oct-14</td>
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<td>ACC</td>
<td>LANGLEY AIR FORCE BASE</td>
<td>MUHJ124033</td>
<td>Design - Repair Backflow Prevention Devices, Pri 3</td>
<td>Between $25,000 and $100,000</td>
<td>Base</td>
<td>15-Sep-14</td>
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<tr>
<td>ACC</td>
<td>LANGLEY AIR FORCE BASE</td>
<td>MUHJ124034</td>
<td>Design - Repair Backflow Prevent Devices, Priority 4</td>
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<td>ACC</td>
<td>LANGLEY AIR FORCE BASE</td>
<td>MUHJ124035</td>
<td>Design - REPR: Repair by replacement 20” water line</td>
<td>Between $100,000 and $250,000</td>
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<td>AFSPC</td>
<td>CHEYENNE MOUNTAIN AIR STATION</td>
<td>SAXC141006</td>
<td>Design - Repair Fire Alarms CMAFS, Mass Notification</td>
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<td>Base</td>
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<tr>
<td>AETC</td>
<td>LUKE AIR FORCE BASE</td>
<td>NUEX091506</td>
<td>Design - REPAIR WATER DIST. SYS (900/1000 AREAS)</td>
<td>Between $250,000 and $500,000</td>
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<td>15-Aug-14</td>
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<tr>
<td>AETC</td>
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<td>NUEX091502</td>
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<td>Base</td>
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<td>AFSPC</td>
<td>CAPE CANAVERAL AIR STATION</td>
<td>DBEH111633</td>
<td>Design - Construct Vehicle Barriers, CCAFS</td>
<td>Between $25,000 and $100,000</td>
<td>Base</td>
<td>1-Sep-14</td>
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<td>AFMC</td>
<td>TINKER AIR FORCE BASE</td>
<td>WWYK120002</td>
<td>Design - CONSTRUCT NATURAL GAS DISTRIBUTION SYSTEM LOOP LEGS</td>
<td>Less than $25,000</td>
<td>Base</td>
<td>31-Dec-14</td>
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<td>ACC</td>
<td>DYESS AIR FORCE BASE</td>
<td>FNWZ100105</td>
<td>Design - REPAIR/ADD VISITOR CONTROL CENTER 9265</td>
<td>Between $25,000 and $100,000</td>
<td>Base</td>
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<td>USAFE</td>
<td>RAF CROUGHTON</td>
<td>EXSW131016</td>
<td>Design - REPLACE AT/FP BARRIER MAIN ECP</td>
<td>Less than $25,000</td>
<td>HN</td>
<td>31-Dec-14</td>
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<tr>
<td>AETC</td>
<td>KELLY FIELD ANNEX</td>
<td>KELL100168</td>
<td>Rpr/Renovate Control Tower, B1160</td>
<td>Between $1,000,000 and $5,000,000</td>
<td>USACE</td>
<td>15-Feb-15</td>
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<td>AFMC</td>
<td>KIRTLAND AIR FORCE BASE</td>
<td>MHMV120111A</td>
<td>Repair Military Working Dog Kennel Fac, B30126-377SG</td>
<td>Between $1,000,000 and $5,000,000</td>
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<td>15-Feb-15</td>
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<td>AFMC</td>
<td>KIRTLAND AIR FORCE BASE</td>
<td>MHMV09058B</td>
<td>Repair Critical COMM Facs: B412,8498,820604, 820449</td>
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<td>AFCEC</td>
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<td>AETC</td>
<td>RANDOLPH AIR FORCE BASE</td>
<td>TVMX101004</td>
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<td>USAFA</td>
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<td>XQZP100105G</td>
<td>Rpr Cadet Gym Ph 7/7</td>
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<td>Base</td>
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<td>USAFE</td>
<td>RAMSTEIN AIR BASE</td>
<td>TYSR131191</td>
<td>AFP SUPPORT FOR NAF MILCON; TYFR 13-5096; 70 UNITS</td>
<td>Between $250,000 and $500,000</td>
<td>Base</td>
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<td>ACC</td>
<td>NELLIK AIR FORCE BASE</td>
<td>RKMF140194</td>
<td>CNST/RPR ELECTRICAL &amp; COMM INFRASTRUCTURE EASTSIDE</td>
<td>Between $500,000 and $1,000,000</td>
<td>Base</td>
<td>22-Aug-14</td>
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<tr>
<td>USAFE</td>
<td>RAMSTEIN AIR BASE</td>
<td>TYFR101031U</td>
<td>BUILD CONNECTING ROAD AND EXTEND FENCELINE</td>
<td>Between $25,000 and $100,000</td>
<td>Base</td>
<td>15-Nov-14</td>
</tr>
</tbody>
</table>

Construction Tasking Order Link
AFCEC Design and Construction
Partnering with Industry

- Need to partner to achieve the right quality, at the right time, and at the right cost... to support the mission!

  - Finite budgets; trend is going down
  - We need your support
  - Timely and realistic construction schedules
  - Timely and complete submittals
  - Qualified subcontractors
  - Specification compliance
  - Expert knowledge of DoD Design and Construction Criteria
  - Attention to detail is critical
  - We need your good ideas!
  - Feedback is appreciated

Hangar/Sq Ops/AMU at Andersen AFB in Guam

Integrity - Service - Excellence
Design and Construction Initiatives

- Standardize Design & Construction processes
  - Develop/maintain AF corporate facility standards
  - Develop standard designs & RFPs (by facility type)
- Develop improved “leading indicator” project performance metrics
- Centralize MILCON requirements definition & DD1391 Certification
- Optimize project delivery methods (DB, DBB, ECI)

Minot Air Force Base Air Traffic Control Tower
Program Manager and Owner’s Representative for design and construction programs worldwide for MILCON and SRM >$5M

- Design and Construction Acquisition Strategies
- Direct Design and Construction Agents
- Authorize advertisement/awards
- Process reprogramming requests
- Approve construction contract changes
- Request and justify additional funds
- Monitor financial completion
- Coordinate inspections
Strategic capability to deliver SRM and MILCON design and construction worldwide

- **Design and Construction Services**
  - Architectural/Engineering
  - Construction
- **Full Service Delivery**
  - Dedicated project manager
  - Contract acquisition and admin expertise
  - Technical reach-back
  - On-site construction oversight
  - Financial tracking
  - Legal Support

Lackland Recruit/Family In-processing & Information Center
Industry Role in AFCEC Missions

- Job #1 – High-Performance Project Delivery:
  - At a fair cost…. on time and at the right quality…
  - Concerns: (1) schedule growth; and (2) project closeout

- Share best practices – leverage your expertise in technology, construction, environmental, maintenance and ops to be more efficient

- Get “Back to Basics” while developing new strategies/capitalizing on new technologies to help Air Force build sustainable facilities/infrastructure
  - Use less energy…facility, process, mission, and operational
  - Require less manpower…use asset mgt principles, risk-based analysis
  - Pursue lower life-cycle costs
  - Be more efficient…yet effective (not more with less but less with less)

- Invoicing and Basis of Cost

- Small Business reply to “Requests for Information”
Centralized Air Force MILCON Program - $M

- AFCEC/772: 1.8, 0%
- USACE: 594.8, 95%
- NAVFAC: 17.9, 3%
- Base CONS: 11.3, 2%

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Facilities FY15 Draft Strategic Acquisition Plan Overview (SAPO)

- **Includes Centralized FSRM, Non-Centralized FSRM, Non-AF Customer Funds**

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13 Aug 2014
Air Force Civil Engineer Center

Integrity - Service - Excellence

Environmental Programs
Environmental Management FY15
Strategic Acquisition Plan Overview

- Includes Environmental Quality and Environmental Restoration O&M Funds, Fish & Wildlife Funds collected, and USDA Forest Service Pest Suppression Grants

<table>
<thead>
<tr>
<th>Agent</th>
<th>%</th>
<th>$M</th>
<th># Req</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFCEC/772</td>
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<tr>
<td>USACE</td>
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<tr>
<td>NAVFAC</td>
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<td>GSA</td>
<td>8%</td>
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<td>Other</td>
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<td>TOTAL</td>
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Environmental Quality Acquisition Strategy

- Environmental Quality Fence-to-Fence acquisitions
- Base Integrated Environmental Support Task-Order (BIEST)
- Media Centric Blanket Purchase Agreements (BPAs)
- A76, BOS, other Base-level contracts
- Interagency Cooperative Agreements
Env Services F2F Acquisition
Standard Levels of Service & Execution

- Standard package of environmental services
- Standard requirements included in acquisition strategy
  - Execution Agents – AFICA, GSA, USACE
  - Execution Vehicles – F2F BPAs, GSA Schedule, USACE Dist Contracts
- FY13/14 F2F efforts - 27 Contracts at 46 installations, ~$130M (base and option years)
- FY15 – FY16 F2F planned acquisitions:
  - AFICA – Eglin, JBSA, Vandenberg
  - GSA – Robins, Wright-Patterson, Kirtland, Edwards (FY16)
### New F2F BPA Schedules Follow-on

<table>
<thead>
<tr>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
</tr>
</thead>
</table>
| Joint Base Charleston, Shaw, Seymour      | Buckley, Ellsworth, Offutt, Whiteman, Minot, Nellis, Creech, Nellis | Tinker, Vandenberg, Eglin, Robins, Kirtland, JBSA, MacDill, Wright-
| Johnson, Moody, Hill, Malmstrom, Mountain | Range, FE Warren, Cannon, Holloman, JBMDL Little Rock, Altus, Vance  | Patterson, Fairchild, Edwards                                        |
| Home                                      | Beale, Cheyenne Mt., Peterson, Schriever, JBLE, Davis-Monthan, Luke, |                                                                      |
|                                           | Tyndall, Hurlburt, Barksdale, Columbus, JB Andrews, Dover, Hanscom,  |                                                                      |
|                                           | Scott, McConnell, Grand Forks, Laughlin, Dyess, Goodfellow, Travis   |                                                                      |

- As installations finish their initial F2F POPs, they will roll into new BPAs using the GSA Schedule
- FY15 - Developing BPAs using GSA Schedule
  - Spill Response
  - Natural and Cultural Resource Management
Environmental Quality FY15
Strategic Acquisition Plan Overview

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Enabling the Air Force mission through environmental planning and compliance with federal law
Environmental Restoration Program (ERP)

Focus Areas
- Protecting human health and the environment
- Comply with regulations
- Restore land to mission use
- Resource allocation centralized, prioritized AF-wide

Program Areas
- ERP composed of Installation Restoration Program (IRP)
- Military Munitions Response Program (MMRP)
- Single fenced appropriation
Environmental Restoration
Program Goals

- Restoration AF Program Goals
  - Accelerated Site Completion (ASC)
    - 50% by FY12; 75% by FY15 for IRP
  - Performance Based Remediation
    - 60% by FY12; 90% by FY15 for ERP

- DOD Program Goals
  - ERP – Response Complete (RC)
    - 90% by FY18; 95% by FY21
  - MMRP
    - MRSPP scoring: 95% by 2014
Environmental Restoration Program

- AF implementing a number of initiatives to accelerate cleanup and reduce costs to meet program goals
  - Expanding Performance-Based Remediation contracts to incentivize innovation by private sector
  - Utilizing base-wide vs. site-by-site solutions
  - Reducing overhead cost by maximum extent possible
- Continue to protect human health and the environment while working to return property to productive use
Environmental FY15 Draft Strategic Acquisition Plan Overview (SAPO)

- Includes Environmental Restoration only

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>AFCEC/772</td>
<td>63%</td>
<td>201.9</td>
<td>232</td>
</tr>
<tr>
<td>USACE</td>
<td>33%</td>
<td>107.6</td>
<td>93</td>
</tr>
<tr>
<td>NAVFAC</td>
<td>0%</td>
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<td>1</td>
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<tr>
<td>GSA</td>
<td>1%</td>
<td>3.3</td>
<td>3</td>
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<tr>
<td>Base CONS</td>
<td>2%</td>
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<tr>
<td>Other</td>
<td>1%</td>
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<td>TOTAL</td>
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# AFCEC – Performance Based Remediation (PBR)

The diagram illustrates the timeline and progress of Performance Based Remediation (PBR) across fiscal years (FY) FY11 to FY+6. It shows steps such as Assessment, RI/FS (Investigation), ROD (Remediation), RD/RA (Remediation Design/Remediation Agreement), and RA-O (Remediation Operations) with an emphasis on integration and efficiency gains.

## Key Points:
- **Innovation, Economies of Scale, Full Spectrum Ownership**
- **More Data**
- **Old vs. New**

### Fiscal Year Breakdown

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th># of PBR Contracts</th>
<th># of Sites</th>
<th>Value of PBRs</th>
<th>% Accelerated SCs</th>
<th>Savings within the POP</th>
<th>Life Cycle Cost Reduction</th>
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<tr>
<td>FY11</td>
<td>10</td>
<td>407</td>
<td>$242M</td>
<td>211% (from 61 - 190)</td>
<td>14% ($39M)</td>
<td>28.5% ($181M)</td>
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<tr>
<td>FY12</td>
<td>14</td>
<td>653</td>
<td>$365.5M</td>
<td>392% (from 84 - 413)</td>
<td>14% ($60M)</td>
<td>41% ($399M)</td>
</tr>
<tr>
<td>FY13</td>
<td>14</td>
<td>768</td>
<td>$393M</td>
<td>177% (from 165 - 457)</td>
<td>24% ($121M)</td>
<td>43% ($429M)</td>
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<tr>
<td>FY14*</td>
<td>7</td>
<td>440</td>
<td>$296M</td>
<td>505% (from 38 -230)</td>
<td>42% ($211M)</td>
<td>35% ($284M)</td>
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<tr>
<td><strong>Total</strong></td>
<td>45</td>
<td>2268</td>
<td>$1.3B</td>
<td>271% (from 348 -1290)</td>
<td>25% ($431M)</td>
<td>38% ($1.3B)</td>
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*As of 15 May 2014*
### FY 15/16 PBRs

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<th>Projected Award Date</th>
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<tbody>
<tr>
<td>JB Charleston - Naval Weapons Station</td>
<td>51</td>
<td>Jun 15</td>
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<table>
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<th>FY 16 PBR</th>
<th># Sites Captured</th>
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</thead>
<tbody>
<tr>
<td>Dover AFB</td>
<td>TBD</td>
<td>TBD</td>
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</table>

Dover is the first follow-on PBR in the program
Air Force Civil Engineer Center

Installations Programs
Includes BRAC, EUL & Real Estate O&M, FH/UP/EUL/VBT portfolio mgt

Note: New FY15 actions = 20 BRAC rqmts @ $50M & 67 O&M rqmts @ $25M

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Portfolio Management Opportunities

- **Portfolio management consists of post-closure oversight**
  - Utilities and housing privatization
  - Value-Based Transactions such as Enhanced Use Leases

- **Post closure management support**
  - FY15: approx $14.5M
  - Probable Method Of Execution: Post Closure Mgt task orders

- **Resident construction managers**
  - FY15: approx $5.0M
  - Probable method of execution: 4PAE task orders

- **A&AS support**
  - FY15: approx $2.5M
  - Probable method of Execution: GEITA11 & USACE task orders
BRAC - Potential Perfluorinated Compounds (PFC) Opportunities

- **PFC Release Determination at Spill/Crash Sites**
  - FY15: approx $10M
  - FY16: TBD based on FY15 results
  - Probable Method of Execution: 4PAE Task Order

- **PFC Delineation at Fire Training Areas**
  - FY15: approx $15M
  - FY16: TBD
  - Probable Method Of Execution: 4PAE Task Order

- **Mitigation to Human Exposure (as needed)**
  - FY16+; likely 4PAE
BRAC Potential
Perfluorinated Compounds (PFC) Work

Potential PFC Delineation Work (Fire Training Areas)
Potential PFC Release Determination Work (Crash/Spill Sites)
BRAC has a mature PBR program
- All BRAC bases are under a PBR

In next few years most sites will be in long term management with only a few sites in Remedial Action-Optimization (RA-O)

FY15+ PBRs will be regionalized for greater efficiencies
- 3 regional contracts
- Utilize GSA schedule via 772 ESS; approx $5M each
- Reduced management costs
- Increased competition
BRAC Performance Based Restoration (PBR) Outlook FY15 and Beyond
Air Force Civil Engineer Center

Integrity - Service - Excellence

Readiness Programs
All projected FY15 procurements are based on the best information available. Information presented herein is subject to modification and is in no way binding on the government. More specific information relating to any individual item or class of items will not be furnished until the proposed acquisition is synopsized through the Government Wide Point of Entry (GPE). Small business set-asides may be involved, but that determination will be made only when acquisition action is initiated. Consult the Procuring Contracting Officer (when identified) for further information.
RD&A Business Opportunities

- Small Business Innovative Research (SBIR) FY15
  - Civil Engineer Technologies Research & Development
  - Pending Solicitation – 2 topics (TBD)
- Laboratory Equipment and Replacement FY15
  - Requirements in Development
- Research and Development (R&D) for Air Force Airbase Systems
  - FY13-17
  - Solicitation # BAA-TYN-14-01 (Updated BAA Solicitation – Jan 15)
  - Science & Technology Development (RDT&E)
Future Airbase Capability Needs:

- Airfield Damage Repair (ADR) Technologies
- Base Expeditionary Airfield Resources (BEAR) Technologies
- Airbase Facilities and Infrastructure Systems
- Airbase Operations
- Civil Engineering Materials
- Emergency Response and Fire Protection Systems
- Infrastructure Protection and Environmental Systems
- Robotics and Automation
- COTS Civil Engineering Solutions

Submit white paper concepts to Research and Development (R&D) for Air Force Airbase Systems BAA, Solicitation # BAA-TYN-14-01
Business Opportunities

- Contract Labor Support
  - Technical writing service/publications
  - Training products
  - Reachback support
  - Lessons learned and Trends Analysis
  - EOD Battlefield Airmen Individual Equipment Management
  - Asset Reconstitution – return/recovery of deployed equipment sets and specialized C-IED tools
  - Research & acquisition program support
Air Force Civil Engineer Center

Operations Programs

14 Aug 2014
SAME Small Business Market Research Fair
Asset Visibility

- Asset condition is the foundation of AF, IPL-based SRM project prioritization
- AFCEC augments base assessments with two functions:
  1. Asset Visibility Team
     - AFCEC Pn + augmentees perform “Reach & Teach”
     - Conduct energy & fac condition assessments at 10 bases/yr
     - Assess 1M SF & ID fac component condition via BUILDER
  2. Airfield Pavement Evaluation Team
     - Conduct worldwide airfield assessments and ID long term airfield condition/investments via PAVER

Asset Management Principles are Foundational to CE Enterprise!
In FY14 Air Force had an increased awareness of inadvertent activations of hangar fire suppression systems

- One related death, thousands of dollars in clean up cost, system recharge, and aircraft damage
- AFCEC funded $5.3M contract AF wide system analysis and provide recommendations to improve system reliability

Status of Contract

- Hangars walk-thoughts near-complete
- SharePoint site developed for report delivery

CY Activations

- Jan-Nov: 33 Activations
- Multiple causes: lack of freeze protection, design/construction errors, human errors, component malfunctions

Potential opportunities for specialized work, FY15 and beyond
Industrial Control Systems

AFCEC/AFCYBER Nexus Agreement focuses CE ICS into 5 Mission Areas

- MA1 - Cyber Threat and Situational Awareness
- MA2 - ICS Certification and Accreditation (C&A)
- MA3 - ICS Hardware/Software Management
- MA4 - ICS Network Defense
- MA5 - Incident Management

Contract support ID’s vulnerabilities under MA2

Period of Performance

- Base Year: 1 Sep 2014 thru 31 Aug 2015
- 4 Option Years: 1 Sep 2015 thru 31 Aug 2019

Potential future work as bases fix vulnerabilities
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Air Force Civil Engineer Center

Energy Programs
Energy FY15 Draft Strategic Acquisition Plan Overview (SAPO)

CN (Facility Energy) - $M, %

- **AFCEC/772**: 278.7, 35%
- **USACE**: 236.6, 30%
- **NAVFAC**: 178.5, 23%
- **Base CONS**: 91.7, 12%
- **Other**: 278.7, 35%

<table>
<thead>
<tr>
<th>Agent</th>
<th>%</th>
<th>$M</th>
<th># Req</th>
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<tr>
<td>USACE</td>
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<tr>
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<tr>
<td>Base CONS</td>
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<tr>
<td>Other</td>
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<td><strong>TOTAL</strong></td>
<td>100%</td>
<td>785.4*</td>
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*Includes $564M of non-government (industry) funding opportunities, of which $96M is for existing annual utility service contracts.

Includes all government funded and non-government funded (industry) requirements, to include 3rd party requirements such as Utility Privatization, Energy Savings Performance Contracts (ESPC), Utility Energy Service Contracts (UESC), and Renewable Energy (RE) Power Purchase Agreements.

All projected FY15 procurements are based on the best information available. Information presented herein is subject to modification and is in no way binding on the government. More specific information relating to any individual item or class of items will not be furnished until the proposed acquisition is synopsized through the Government Wide Point of Entry (GPE). Small business set-asides may be involved, but that determination will be made only when acquisition action is initiated. Consult the Procuring Contracting Officer (when identified) for further information.
AF committed to executing $376M+ worth of ESPC and UESC opportunities during 2015-2016

<table>
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<tr>
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<td>Wright-Pat</td>
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# Renewable Energy

## Power Purchase Agreements (PPA)

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<tr>
<th>FY15 Projects</th>
<th>FY16 Opportunities</th>
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<tbody>
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<td>Dyess AFB, TX</td>
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<td>Holloman AFB, NM</td>
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<tr>
<td>Vandenberg AFB, CA</td>
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</table>

### Plus 7 Projects Targeting PACAF & Europe

- Cape Cod Wind
- Davis-Monthan Solar

### Phases

- **Phase 0**: Opportunity
- **Phase 1**: Project Development
- **Phase 2**: Project Acquisition
- **Phase 3**: Project Execution
- **Phase 4**: Design/Construction
- **Phase 5**: Management
Utilities Privatization (UP) Program

- FY15 & 16
  - Arnold (E)
  - Keesler (E,G,S,W)
  - Beale (G)
  - Cape/Patrick (E,S,W)
  - Malmstrom (E,G)
  - Moody (E,G)
  - Robins (E,G,S,W)
  - Schriever (E,G,S,W)

Key: E = Electric; G = Natural Gas, S = Sewer; W = Water
FY13 projects are awarded
- 6 Projects @ $38M

FY14 projects have design and construction funds
- 12 Projects @ $35M

FY15 projects have design funds
- 14 Projects (3 whole base exterior Lights to LED) @ $41M
O&M Funded Energy Projects
Planning & Integration Directorate (CP)

- FY10-13: $552M invested for $1.13B gross savings
- FY14 projects
  - $111M push w/ $63M awarded / $48M awt funds
  - 7 year avg payback with 15 year avg economic life
- FY15+
  - Risk-based scoring model – Integrated w/ other AF req’s
  - $27M already identified in FY15
O&M Funded Energy Projects
FY15 & 16 AMRS Installations

- FY15*
  - Tinker AFB, OK
  - Hill AFB, UT
  - Nellis & Creech AFB, NV

- FY16*
  - JBSA, TX
  - Wright-Patterson AFB, OH
  - Robins AFB, GA
  - JBER, AK

- Installation Prerequisites:
  - CE VLAN
  - Completed AMRS Site Report
  - Top 60% of Energy Consuming Bases

* - Subject to change depending on site verification findings

- Peterson AFB, CO
- Arnold AFB, TN
- JBMDL, NJ
- Eielson AFB, AK
- JBLE, VA
You...our industry partners, are critical to our success!!