Army, Navy and Air Force Environmental Programs

Moderator:
• Col. David Anderson, P.E., F.SAME, USA (Ret.), Bay West LLC

Speakers:
• Col. Mary Williams-Lynch, USA, Chief, Army Environmental Programs Division, Office of the Assistance Chief of Staff for Installation Management, HQ Department of the Army
• Karen Baker, SES, Chief, Environmental Division, HQ USACE
• Robert Sadorra, P.E., Director, Environmental Restoration Division, HQ NAVFAC
• Col. Susan Riordan-Smith, USAF, Deputy Director, Environmental Management Directorate, AFCEC
OVERVIEW

Army Environmental Programs

Colonel Mary Williams-Lynch
Headquarters, Department of the Army
OACSIM, Installation Services Directorate
Army Environmental Division
Army Environmental Universe

- 12.4 Million Acres Of Army Land
- 156 Installations/148 require Integrated Natural Resources Management Plans
- 363 US Operational Ranges or Range Complexes In The Inventory
- 223 Endangered Species On 118 Installations
- 13 Candidate Species On 20 Installations That May Impact Mission
- 82,605 Archeological Sites
- 1.3 Million Acres of Wetlands
- 58,887 Buildings Subject To National Historic Preservation Act
- 307,179 Acres Protected At 36 Army Compatible Use Buffer Installations
- 2,628 Environmental Permits
- 97M Lbs Of Hazardous Waste Generated
- 1,851 Formerly Used Defense Sites
- 1,309 Active Cleanup Sites
- 209 BRAC Environmental Cleanup Sites

As of 1 Feb based on FY15 Data
Environmental Quality Program ensures legal compliance for air, land, and water resources. Military readiness training and testing, industrial production, and garrison operations depend on it.
Funding by FY

FY17 Total $1.051B

Environmental Quality $625.94M 60%
Cleanup $367.25M 35%
BRAC $6.5M >1%
Technology $51.21M 5%

Congressional Adds

<table>
<thead>
<tr>
<th>$M</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
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<td>60</td>
<td>44.8</td>
<td>31.5</td>
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* Includes Army Working Capital Fund
Environmental Program - Overview

Army investment in the environment ~ $1.1B / year

OACSIM Business Groups

- Installation Management
- Base Operations & Services
- Morale, Welfare & Recreation
- Safety
- Occupational Health
- Executive Management
- Installation Master Planning
- Housings & Furnishings
  - Environment
- Real Property Acquisition & Mgt
- Installation Geospatial Facility Engineering
- Military Construction
- Public Works

Environmental Program Group

- ~ $626M / year Operational Compliance
- ~ $374M / year “Past sins”

Environment

- Environmental Quality (EQ)
- Environmental Cleanup (EC)

✓ Program Support - Key management functions that support execution
✓ Program Initiatives - Key initiatives that sustain Army operations and training

Environmental Quality Technology is an initiative that costs ~ $51M / year
FY17 funding level will allow Army to:

- Comply with Federal and State statutes and regulations, Executive Orders, and overseas Final Governing Standards
- Obtain and maintain compliance with environmental permits
- Store and dispose of Hazardous Waste
- Maintain Air and Water Programs
- Maintain Environmental Compliance Assessment Program
- Address compliance with new and more stringent regulatory requirements

Trend:
- Funding requested in the President’s Budget for FY17 is relatively stable as compared to the FY16 Presidents Budget request.
FY17 funding level will allow Army to:

- Comply with Federal and State statutes and regulations, Executive Orders, and overseas Final Governing Standards
- Maintain access to training lands and ensure resource stewardship through compliance and management of endangered species, migratory birds, archeological sites, historic buildings, Native American cultural items
- Of all environmental requirements, the Endangered Species Act is the most impactful to readiness
- Assume moderate risk

Trend:
- Funding requested in FY17 increases in order to enable the Army to address the impacts of candidate species being listed as threatened and endangered, execute Army Compatible Use Buffer projects, and address impacts to cultural and tribal resources
In 2002, Congress provided DoD the authority to cooperate with partners to address encroachment at military installations.

ACUB preserves the Army’s ability to train Soldiers to standard by:

- Preserving and enhancing capability, availability, and accessibility to testing and training lands and ranges
- Partnerships with state/local governments and conservation organizations to help maintain productive relations and communications with the community.

Conservation organizations include:

- The Nature Conservancy
- Ducks Unlimited
- The Conservation Fund
- Trust for Public Land

- Ongoing innovations in species crediting:
  - Southeast regional ACUB gopher tortoise
  - Joint Base Lewis-McChord eco credit

**FY14-17 ACUB ($M):**

<table>
<thead>
<tr>
<th></th>
<th>FY14</th>
<th>FY15</th>
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<tr>
<td>OSD REPI*</td>
<td>$98**</td>
<td>$66**</td>
<td>$75</td>
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<td>Army REPI</td>
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<td>Army</td>
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* REPI - Readiness and Environmental Protection Integration
** Includes direct funding from OSD Readiness in addition to funds appropriated to OSD REPI in support of training range operations

Program achievements:

- Over 307,179 acres permanently protected as buffers for training
- $497M in military funds have been obligated since 2003
- $324M in partner contributions executed since 2003
FY17 funding level will allow Army to:

- Meet legal agreements
- Address ongoing Remedial Action-Operations and Long Term Management requirements
- Initiate Interim Corrective Measures to address Recovered Chemical Warfare Material (RCWM) burial sites at Redstone Arsenal
- Assume moderate risk, increased cost the longer projects are delayed

Trend:

- Army is on track to meet DoD goal of achieving Response Complete milestone at 90% of sites by end of FY18 and 95% of sites by end of FY21.
FY17 funding levels allow Army to:

- Comply with legal requirements, agreements, and address imminent hazards at BRAC installations
- Prioritize funding based on reuse
- Make progress towards completing environmental closure requirements
- Assume moderate risk

Trends:

- BRAC requirements are decreasing as cleanup progresses and remaining property transfers.
- Decreased funding trend for BRAC PB/Appropriated funding is not sustainable as prior year unobligated balances continue to draw down.
- Addressing the remaining BRAC inventory and addressing operations and long term management will require increases in appropriated funding starting in FY17.
FY17 funding level will allow Army to:

- Meet legal agreements
- Address ongoing Remedial Action-Operations and Long Term Management requirements
- Initiate new Installation Restoration Program (IRP) phases and continue on trajectory to achieve the OSD goals of Response Complete at 90% of IRP sites by 2018 and 95% by 2021
- Address the most pressing MMRP requirements, with an emphasis on Interim Risk Management
- Assume moderate risk, increased cost the longer projects are delayed
- Funding is relatively steady which facilitates planning and execution.

Trend:

FY14-16 includes Congressional Adds:

<table>
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<th>Fiscal Year</th>
<th>Congressional Adds</th>
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<tr>
<td>FY14</td>
<td>$50M</td>
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<td>$42.5M</td>
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<tr>
<td>FY16</td>
<td>$27.5M</td>
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FUDS RESTORATION
Military Munitions Response Program (MMRP)

DoD Goal: 100% of MMRP sites RIP/RC at active installations by the end of FY2020

- Accomplishments
  - RIs initiated at all installations
  - Several removal actions completed in support of BRAC moves

- Challenges
  - Definition of adequate characterization
  - Establishing risk management approach
  - Regulatory review times/staffing

![Bar chart showing MR Sites from FY03 to FY31]
Points of Contact

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Society of American Military Engineers
DOD and Federal Program Briefings
US Army Corps of Engineers
Environmental Program

Karen Baker, SES
Chief, Environmental Division
Washington D.C.
9 March 2016
USACE Mission Areas

BUILDING STRONG – USACE Supports the Army and the Nation

Military Programs
- Military Construction
- COCOM Support, Overseas Contingency Operations (OCO)
- Installation Support, Environmental, Energy, and Sustainability

Homeland Security
- Critical Infrastructure
- Anti Terrorism Plans
- Intelligence
- Facility Security Partnership

Real Estate
- Acquire, Manage and Dispose
- DoD Recruiting Facilities
- Contingency Operations

Civil Works
- Navigation, Hydropower
- Flood Control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster Response
- Environmental Restoration

Interagency Support
- Federal
- State
- Local
- International

Research & Development
- Warfighter
- Installations & Energy
- Environment
- Water Resources

Geospatial Support
- Support to Civil Works Programs
- Support to Military Programs
- Common Operating Picture/Environment
- Support to Emergency & Contingency Ops

USACE Has a Diverse Mission Set Driven by Diverse Customers
USACE Environmental Roles

Remediating Prior Environmental Damage. Improving environmental quality degraded by prior Federal actions during the building and defense of our Nation.

Holding the Environmental Line. Reducing environmental impacts of actions and preserving environmental quality as the Nation continues to grow and mature.

Contributing to Resiliency and Sustainability. Restoring and protecting the structure, function, and associated services of our Nation's significant ecosystems to a more robust and reliable state for the benefit of future generations.

Above: Increases in the rate of seal level rise
Left: Huntsville Military Munitions Response Program.
Below: Ecosystem Restoration in New York District
USACE Environmental Operating Principles

1. Foster Sustainability as way of life throughout organization.

2. Proactively consider environmental consequences and act accordingly.

3. Create mutually supporting economically-environmentally sustainable solutions.

4. Continue to meet corporate responsibility & accountability under the law for USACE activities that impact human & natural environments.

5. Consider environment in employing a risk management and systems approach throughout life cycles of projects and programs.

6. Leverage scientific, economic and social knowledge to understand environmental context and effects of actions in a collaborative manner.

7. Employ open and transparent process that respects views of individuals and groups interested in USACE activities.
Military Programs - Environmental

Executed $1.6 billion in environmental program and project management in FY15

- Formerly Used Defense Sites (FUDS)
- Installation Restoration Program (IRP) Army/Air Force
- Base Realignment & Closure (BRAC-ER)
- Environmental Quality (EQ)
- Defense State Memorandum of Agreement (DSMOA)
- Deactivated Nuclear Power Plant Program (DNPPP)
- Native American Lands Environmental Mitigation Program (NALEMP)
- Formerly Utilized Sites Remedial Action Program (FUSRAP)
- EPA Superfund
- Support to Other Federal Agencies (IIS-E)
Environmental Division - Accomplishments

Superfund Program: 2015 cleanup goal for site in Libby, MT was 80 properties. Omaha District achieved 112 cleanups by winter shut down.

Environmental Quality: Response and cleanup after catastrophic fire and explosion at Sagami Depot, Japan.


Conservation on Military Lands: Endangered Species management at Fort Hood removed training restrictions.

Deactivated Nuclear Power Plant Program (DNPPP): The reactor containment vessel dome has been removed from the STURGIS and is being prepared for transport.
Extent of Nationwide Clean-Up Program

- FUDS (Formerly Used Defense Sites) – Mostly WWI, WWII, and later military sites
- FUSRAP (Formerly Utilized Sites Remedial Action Program) – Low-level radioactive, non-DOD sites, including DOE Atomic Energy Era projects
- BRAC – Current Projects
- BRAC – Closed Projects
- SUPERFUND (National Priorities List) – Former industrial sites with hazardous waste; USACE work for EPA

*Does not include USACE clean up work at Army, AF, NGB, and Reserve Installations
FY16 Planned Execution*
$1,402M

- DERP $245
- EQ $320
- Superfund $200
- BRAC $164
- DSMOA $54
- FUSRAP $104
- NALEMP $12

- ER, Army $125
- ER, AF $110
- ER, DoD/Navy $10
- EQ, Army $210
- EQ, AF $80
- EQ, DoD/Navy $38

- Pie numbers in the $ millions
- Workload does not include Overseas Contingency Support estimated at $243M in FY16
Environmental Trends

- Changes in mix of services in future years as some traditional cleanup programs near completion.
  - Anticipating challenges and opportunities in how our partners are contracting/organizing work. REGIONAL APPROACHES.
  - Recognizing further potential in EQ and IIS-Environmental.
## Environmental Cost to Complete

<table>
<thead>
<tr>
<th>Program</th>
<th>Cost to Complete</th>
<th>End Year</th>
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<tr>
<td>Army Cleanup</td>
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<td>Air Force Cleanup</td>
<td>$4.88 B</td>
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<td>$1.0B</td>
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<td>FUSRAP</td>
<td>$1.5 B</td>
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Doing Business with USACE

1. Business With Us.

2. Business With Us on District and Division websites.


4. Districts and Centers Opportunities on Federal Business Opportunities website (FedBizOpps).
   https://www.fbo.gov/index?tab=offices&s=agency&mode=form&id=63dd2680762c21c611c41c2499b507c5&cck=1&au=&ck

5. Industry Days at Districts and Centers.
Regional Environmental & Energy Offices (REEOs)

- OSD Requirement to ASA(IE&E)
- Responsibilities:
  - Monitor state-level legislation.
  - Monitor state and Federal regulations.
  - Outreach for DoD and Army interests and objectives.
  - Provide information on trends and emerging state legislative and regulatory issues.
- 4 Army REEO Locations
  - REEO-Northern (Reg V)
  - REEO Southern (Reg IV)
  - REEO Central (Reg VI)
  - REEO Western (Reg VIII)
USACE Sustainability

USACE Campaign Plan (FY14-19) Objective 1c:
Support the Nation and the Army in achieving our energy security and sustainability goals

**Action 1.** Achieve Federal sustainability and energy goals and targets within USACE’s internal operations and infrastructure.

**Action 2.** Support Army energy and sustainability programs.

**Action 3.** Deliver solutions for contingency bases and operations.

http://www.usace.army.mil/Missions/Sustainability.aspx
Points of Contact

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Navy Environmental Programs Update

SOCIETY OF AMERICAN MILITARY ENGINEERS
FY2017 DOD PROGRAM BRIEFINGS

Rob Sadorra, P.E.
Director, Environmental Restoration Division, NAVFAC HQ
09 March 2016

Agenda
• EV Business Line Overview
• EV Challenges and Focus Areas
• EV Budget Outlook
• ER Program
• EV Business Line Acquisition Strategy
Environmental Planning (NEPA)
  – Environmental Impact Statements
  – Environmental Assessments

Natural & Cultural Resources
  – Integrated Conservation Plans

Environmental Compliance
  – Installation Compliance with Federal, State, and Local Environmental Regulations

Environmental Restoration
  – Installation Restoration
  – Munitions Response
Environmental Challenges and Focus Areas

- Drinking Water
- Emerging Contaminants (e.g. PFC’s)
- Complex Groundwater Sites
- Vapor Intrusion
- Munitions Response
- Radiological Cleanup
- Renewable Energy Support
- NEPA
Navy Environmental Budget ($M)

*Congressional Plus-Ups: ER,N: $7.5M in FY16
BRAC: $45M in FY15; $12.6M in FY16
NAVFAC Environmental Workload
FY12-15 Actuals FY16-21 Projected

$(000)

FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21

BRAC
Other
Other Navy
MC
FLEET
CNIC
EQ
ERN
Environmental Restoration, Navy Site Status

IR Program Snapshot

- Mature IR program
- Many complex sites remain
- Large cost with UW MR sites

MR Program Snapshot
Environmental Restoration, Navy Performance Summary

**FY 11-15 RESPONSE COMPLETE (TOTAL SITES)**

- Progress remains strong
- Impacted by sequestration
  - Meeting goals in FY13 prior to sequestration
  - $200M in reductions in total since FY 13
  - Significant new requirements and growth
  - Future funding outlook may impact projected progress

**EOY 2015 PROJECTION**

- TOTAL EOY18: 80.5% 86.8%
- 90% of all sites RC
- TOTAL EOY21: 80.5% 91.8%
- 95% of all sites RC

FY12-FY15: Actual  
FY16-FY21: Projection
Environmental Restoration, Navy Phase Funding Profile

IR Program Profile

- Large and ongoing IR RAO / LTMgt tail
- Complex cleanups remain
- Declining investigations
- Potential radiological requirements not yet reflected

MRP Program Profile

- Near-term focus on MR investigations
- Large underwater MR sites pushed to the right
Vision:
- Provide best contractual solutions
- Establish a balanced and diversified contract tool box to meet the broad array of program requirements

Objectives:
- Increase acquisition options and flexibility
- Effectively manage cost and risk
- Maintain an environment of competition
- Meet political and legislative contracting mandates

Highlights:
- $1,900M in FY15-17 contract requirements
- $1,890M in new contract actions
- Future contract opportunities posted on the NAVFAC portal:
Environmental Acquisition Strategy

**Metrics**

**Fixed Price – Trends and Projection**

- 60-65% FP goal

**Small Business – Trends and Projection**

- 43% SB goal

**Multiple Awards – Trends and Projection**

- 25% MAC goal

**Performance Base – Trends and Projection**

- 50% PBC Target
Environmental Acquisition Strategy
Summary

Proposed New Contracts by Capacity (FY14-17)

New Capacities by Contract Vehicle Type (FY14-17)

New Contracts by Echelon IV (FY14-17)

New Contracts by Award Date (FY14-17)
Questions

Rob Sadorra, MBA, M.Eng., P.E.
Director, Environmental Restoration Division
NAVFAC HQ
Robert.Sadorra@Navy.mil

**Acronyms**
- EC - Environmental Compliance
- CN - Cultural and Natural Resource
- P2 - Pollution Prevention
- ET - Environmental Training
- ER - Environmental Restoration
AF Environmental Programs

9 March 2016
SAME DOD and Federal Programs Brief
Environmental Mission

Enabling the Air Force mission through proper environmental planning, sound stewardship and strict compliance with federal laws

Primary Mission Capabilities

- Environmental Media Technical Expertise
- Training
- Management System and Compliance Audits
- PPBE
- Environmental Planning Function
- Environmental Quality Program Management
- Environmental Restoration Program Management
- Reporting and Analysis
- Field Operations
What We Support – The Big Picture

161 Installations, 44 Range Complexes
156K NM² SUA, 350 MTRs, 29K Acres Accident Zones, 309K Acres Noise Zones

200 Miles of Coastline
50 Launches/yr

285 Federally-Recognized Tribes

598K acres of forest, 266K acres of wetlands

9M Acres of Land
Forests, prairies, deserts, wetlands, coastal habitats

115 Threatened/Endangered Species on 45 installations

246 Waste Water Permits
207 Storm Water Permits

180 Water Systems
Serving 1M+ AF Personnel

240 Clean Air Permits

Natural & Built Infrastructure Provides Capacity for Mission Capability
FY17 PB
Environmental Program

Program Breakouts for FY17 PB

FY15 FY16 FY17
PB Appropriated Obligated
$ (M)

919 853 842
914 862 862

Military Munitions Response 5%
BRAC 6%
Installation Restoration 39%
Conservation 6%
P2 2%
Compliance 42%
FY17 EQ “Big Rocks”

FY17 Program
Total EQ IPL Requirements at AFCOLS 1
$268M

- Compliance: $185M
- Conservation: $61M
- P2: $22M

- Air: 7%
- Compliance Cross-Cutting Programs: 25%
- GIS and IT: 4%
- Overseas Remediation: 3%
- Planning: 7%
- Toxic Substances: 1%
- Natural Resources: 16%
- Cultural Resources: 6%
- Water: 5%
- Storage and Disposal: 18%
- P2: 8%

Requirements at AF COLS 2
$248M ($20M Redux)
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
- FY13/14/15 F2F efforts - 33 Contracts at 52 installations, ~$185.5M (base and option years)
- FY17 F2F planned acquisitions:
  - Hill (BIEST) – USACE, Sacramento District
  - Patrick/Cape Canaveral – AFICA, 772 ESS

F2F = Fence to Fence Acquisition Strategy

Integrity - Service - Excellence
## New F2F BPA Schedules as Installations Finish Initial F2F

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<thead>
<tr>
<th>FY18</th>
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<th>FY20</th>
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<tr>
<td>Malmstrom</td>
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<tr>
<td>Seymour Johnson</td>
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<tr>
<td>Shaw</td>
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</table>

- Developing BPAs in FY16 using GSA Schedule
- Developing additional USACE vehicles
Environmental Restoration Program (DERA)

FY17 PB funding allows Air Force to:
- Meet legal/regulatory obligations
- Achieve Air Force cleanup goals

FY17 PB Requirements:
- Continue management of performance-based remediation Air Force-wide
- Posture Air Force to meet OSD Response Complete goals

Accomplishments:
- Exceeded FY15 projections for Response Complete and Site Close Out
- Military Munitions Response Program returned 518K acres out of 772K for use
- Reusing 750K tons concrete debris from Edwards AFB runway as capping material
- Accelerated clean up of fuels at Kirtland AFB to ensure city’s drinking water is safe
- Funded $5M innovative remediation technologies for complex sites
DOD Program Goals – Response Complete (RC) - 90% by FY18; 95% by FY21

FY08-FY15: Actual
FY16-FY21: Projection

- **Investigation**
- **Cleanup/RIP**
- **Response Complete**
- **% Response Complete**
Environmental Restoration Program Execution

- Acquisitions
  - AF remains committed to Performance Based Remediation (PBR)
    - 46 contracts awarded to date
    - Next PBRs will award beginning in 2018
- Other work
  - Emerging contaminants
  - Vapor Intrusion
  - Open sites not included on a PBR
  - Sites under PBRs reaching MPOs
Future Acquisition Strategy

- PBRs will continue to be our primary vehicle for restoration
  - May group sites into pre- and post- Decision Document contracts
  - Pick up where the current PBRs leave off
  - Evaluate AF C contracts vs CoE MATOCs vs GSA schedule for most efficient and effective vehicle

- Evaluating use of EQ F2F contracts for LTM and RA-O at a limited number of locations

- Emerging contaminants will continue to utilize A-E design vehicles to initiate study phases
## PBR Roadmap

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<th>FY 15 PBR</th>
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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>Aug 15</td>
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<tr>
<td>Scott AFB (FY 14 funding)</td>
<td>29</td>
<td>Sep 15</td>
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### FY 18 PBR

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<tr>
<td>Dover AFB</td>
<td>TBD</td>
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### FY 20 PBR

- 28 PBRs covering 67 locations
<table>
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<tr>
<th>Contract Type</th>
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As of 7 Mar 2016
Contact Information

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