Air Force Life Cycle Management Center

FY17 Air Force Rapid Innovation Fund (RIF) Program Overview

July 2017

Richard Lile AFLCMC/OZT
AF RIF Program Management Office
Agenda

• RIF Program Overview
• RIF Program Objectives
• RIF Implementation Strategy
• Key Project Requirements
• Technology Readiness Levels
• AF RIF FY 17 Participants
• Current AF RIF Status
• FY 17 AF RIF Schedule
• Air Force RIF POCs
RIF Program Overview

- **Congressionally mandated** – FY2011 NDAA, Section 1073
  - Goal: To stimulate innovative technology from small businesses that accomplish the following:
    - Resolves operational challenges
    - Addresses critical national security needs
    - Transitions into defense acquisition programs
  - Full and open competition with preference for Small Business
  - AFLCMC/XP manages the AF RIF program

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Description</th>
<th>Budget / Service</th>
<th>Projects</th>
<th>Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2011</td>
<td>Oct ‘11-Sep ‘12</td>
<td>$105M</td>
<td>5 AF needs</td>
<td>46 AF awards</td>
</tr>
<tr>
<td></td>
<td>Sep ’12-Sep ‘13</td>
<td>$50M</td>
<td>4 NDAA areas</td>
<td>43 AF needs</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>18 AF awards</td>
<td></td>
</tr>
<tr>
<td>FY 2012</td>
<td>Aug ‘13-Jul ‘14</td>
<td>$53M</td>
<td>5 NDAA areas</td>
<td>79 AF needs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 AF awards</td>
<td></td>
</tr>
<tr>
<td>FY 2013</td>
<td>Jun ‘14-Jul ‘15</td>
<td>$40M</td>
<td>3 NDAA areas</td>
<td>86 AF needs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 AF awards</td>
<td></td>
</tr>
<tr>
<td>FY 2014</td>
<td>Apr ‘15-Jul ‘16</td>
<td>$50M</td>
<td>104 AF needs</td>
<td>21 AF awards</td>
</tr>
<tr>
<td>FY 2015</td>
<td>Mar ‘16-May ‘17</td>
<td>$62M</td>
<td>98 AF needs</td>
<td>27 Awards</td>
</tr>
</tbody>
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Cleared for Public Release - Case Number 88ABW-2015-3242
RIF Program Objectives

• Provide funding for completion of technology development to close near-term gaps
  – Aligns technology with sponsor

• Identify alternate sources of innovative technology to programs and primes for current and future efforts
  – Provides link between OEM and small business
  – Lower risk to current efforts by providing alternate sources of “near ready” technology

• Improve AF’s engagement with small business
  – Means to communicate AF needs to small business
  – Involves the warfighter in the review of near-term solutions
RIF Implementation Strategy
Two-Step Competitive Process

• **Step 1: White Papers**
  – Broad Agency Announcement (BAA) issued via FedBizOps
  – Solicitation open for 60 days
  – Applicants submit 3 page white paper and quad chart
  – Evaluations are “Go” or “No Go”

• **Step 2: Proposals**
  – Top rated “Go” white papers will be invited to submit a full proposal
    • Further competition – invite for proposal DOES NOT guarantee an award
  – Highest-rated proposals lead to award
Key Project Requirements

• Looking for Proposals or Projects that:
  − Satisfies an operational or national security need
    • Accelerate or enhance military capability
    • Provides approach for use by an acquisition program
  − Reduces:
    • Technical risk
    • Cost – Development, acquisition, sustainment, or lifecycle
  − Improve timeliness & quality of test & evaluation outcome
  − Completed within 24 months of award*
  − Cost is not more than $3 million*

Selection Preference to Small Business Proposals

* Can be waived by Under Secretary of Defense (Acquisition, Technology & Logistics)
### Technology Readiness Levels (TRL)

#### Type of Activity

<table>
<thead>
<tr>
<th>Exit Goal</th>
<th>Technology Readiness</th>
</tr>
</thead>
<tbody>
<tr>
<td>System, Test, Launch, &amp; Operation</td>
<td>Actual system “flight proven” through successful mission operations</td>
</tr>
<tr>
<td>System/Subsystem Development</td>
<td>Actual system completed and “flight qualified” through test and demonstration (Ground or Flight)</td>
</tr>
<tr>
<td>Technology Demonstrations</td>
<td>System prototype demonstration in space environment</td>
</tr>
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</table>

#### Entry Goal

<table>
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<tr>
<th>Entry Goal</th>
<th>Technology Readiness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology Development</td>
<td>System/subsystem model or prototype demonstration in a relevant environment (Ground or Space)</td>
</tr>
<tr>
<td>Research to Prove Feasibility</td>
<td>Component and/or breadboard validation in relevant environment</td>
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<tr>
<td>Basic Technology Research</td>
<td>Component and/or breadboard validation in laboratory environment</td>
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<tr>
<td></td>
<td>Analytical and experimental critical function and/or characteristics proof-of concept</td>
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<tr>
<td></td>
<td>Technology concept and/or application formulated</td>
</tr>
<tr>
<td></td>
<td>Basic principles observed and reported</td>
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AF RIF FY17
“Acquisition” Participants

Program Executive Offices (PEOs)

- Battle Management
- Business Enterprise Systems
- Command, Control, Communications, Integration & Network (C3I&N)
- Fighter / Bomber
- Intelligence, Surveillance Reconnaissance & Special Operation Forces (ISR & SOF)
- Joint Strike Fighter
- Space
- Strategic Systems
- Weapons

Centers

- Air Force Life Cycle Management Center (AFLCMC)
- Air Force Propulsion Directorate (LP)
- Air Force Sustainment Center (AFSC)
- Air Force Test Center (AFTC)
- Air Force Nuclear Weapons Center (AFNWC)
Current AF RIF Status

- FY11, FY12, FY13, and FY14 RIF projects progressing
  - Successes are being identified and documented

- FY15 RIF
  - All AF RIF projects have been awarded

- FY16 RIF
  - All AF RIF projects are in negotiations

- FY17 RIF is officially underway
  - Announcements/postings on FEDBIZOPs/Defense Innovation Marketplace
## FY17 AF RIF Schedule

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<thead>
<tr>
<th>Date</th>
<th>Milestone</th>
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<tr>
<td>17 March 2017</td>
<td>BAA released in FEDBIZOPS</td>
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<tr>
<td>19 May 2017</td>
<td>BAA Closes: White Papers due from applicants</td>
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<tr>
<td>Spring 2017</td>
<td>White papers are being evaluated by AF</td>
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<tr>
<td>Summer 2017</td>
<td>Notifications sent out on white paper evaluation status and full proposals</td>
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<tr>
<td></td>
<td>are invited</td>
</tr>
<tr>
<td>Fall 2017</td>
<td>Full proposals from applicants will be evaluated by AF</td>
</tr>
<tr>
<td>Winter 2017</td>
<td>Selections for award announced</td>
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<tr>
<td>January 2018</td>
<td>FY18 RIF requirements identified</td>
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The Defense Innovation Marketplace is a communications resource to provide industry with improved insight into the Research and Engineering investment priorities of the DoD.
FedBizOpps.gov is the single government point-of-entry (GPE) for Federal government procurement opportunities over $25,000.
AF RIF has new Submission, Evaluation, and Awards Tracking Systems, and new Helpdesk contractor support:

- New AF RIF System URL: https://www.aifrif.com
- New Training System URL: http://www.aifrifthaining.com
- New Helpdesk phone: (toll free) 855-829-2832
- New Helpdesk email: helpdesk@aifrif.com
- New AFRIF Team Email: afrifteam@aifrif.com
AF RIF Points of Contact

- Rick Lile, Program Manager
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- Julia Kemp, AF RIF Contracting
  Julia.kemp@us.af.mil

- AF RIF Contract Support:
  Dr. Jack Hughes, contractor Program Manager
  jack.hughes@afrif.com or jack.hughes@hpccom.com

- Mrs. Carol Hughes, contractor Corporate Management
  Acting Deputy Program Manager
  carol.hughes@afrif.com or chughes@hpccom.com