

# UNCLASSIFIED

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2016 Office of the Secretary Of Defense **Date:** February 2015

|                                                                                                                                                                     |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Appropriation/Budget Activity</b><br>0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:<br>Advanced Component Development & Prototypes (ACD&P) | <b>R-1 Program Element (Number/Name)</b><br>PE 0604775D8Z I Defense Rapid Innovation Program |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|

| COST (\$ in Millions)                  | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
|----------------------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element                  | 418.008     | 175.000 | 225.000 | -            | -           | -             | -       | -       | -       | -       | Continuing       | Continuing |
| P775: Defense Rapid Innovation Program | 418.008     | 175.000 | 225.000 | -            | -           | -             | -       | -       | -       | -       | Continuing       | Continuing |

## A. Mission Description and Budget Item Justification

The National Defense Authorization Act (NDAA) for FY2015 and the Consolidated Appropriations Act, 2015, provide the Department of Defense with authorities and funds to facilitate the rapid insertion of innovative technologies into military systems and programs. The purpose of the DoD-wide Rapid Innovation Fund (RIF) program is to perform a solicitation, evaluation and award of contracts that support the aforementioned Congressional authorities and support the DoD goals of emphasis on rapid, responsive acquisition and engagement of small, innovative businesses in solving defense challenges.

| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 175.000        | -              | -                   | -                  | -                    |
| Current President's Budget                        | 175.000        | 225.000        | -                   | -                  | -                    |
| Total Adjustments                                 | -              | 225.000        | -                   | -                  | -                    |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | 225.000        |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -              | -              |                     |                    |                      |

## Congressional Add Details (\$ in Millions, and Includes General Reductions)

**Project:** P775: Defense Rapid Innovation Program

Congressional Add: Defense Rapid Innovation Fund

|                                               | <b>FY 2014</b> | <b>FY 2015</b> |
|-----------------------------------------------|----------------|----------------|
|                                               | 175.000        | 225.000        |
| Congressional Add Subtotals for Project: P775 | 175.000        | 225.000        |
| Congressional Add Totals for all Projects     | 175.000        | 225.000        |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense |             |         |         |              |                                                                                       |               |         |         |                                                                  | Date: February 2015 |                  |            |
|---------------------------------------------------------------------------------------|-------------|---------|---------|--------------|---------------------------------------------------------------------------------------|---------------|---------|---------|------------------------------------------------------------------|---------------------|------------------|------------|
| Appropriation/Budget Activity<br>0400 / 4                                             |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0604775D8Z / Defense Rapid Innovation Program |               |         |         | Project (Number/Name)<br>P775 / Defense Rapid Innovation Program |                     |                  |            |
| COST (\$ in Millions)                                                                 | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO                                                                           | FY 2016 Total | FY 2017 | FY 2018 | FY 2019                                                          | FY 2020             | Cost To Complete | Total Cost |
| P775: Defense Rapid Innovation Program                                                | 418.008     | 175.000 | 225.000 | -            | -                                                                                     | -             | -       | -       | -                                                                | -                   | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                            | -           | -       | -       | -            | -                                                                                     | -             | -       | -       | -                                                                | -                   |                  |            |

## A. Mission Description and Budget Item Justification

The National Defense Authorization Act (NDAA) for FY2015 and the Consolidated Appropriations Act, 2015, provide the Department of Defense with authorities and funds to facilitate the rapid insertion of innovative technologies into military systems and programs. The purpose of the DoD-wide Rapid Innovation Fund (RIF) program is to perform a solicitation, evaluation and award of contracts that support the aforementioned Congressional authorities and support the DoD goals of emphasis on rapid, responsive acquisition and engagement of small, innovative businesses in solving defense challenges.

## B. Accomplishments/Planned Programs (\$ in Millions)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>FY 2014</b> | <b>FY 2015</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| <b>Congressional Add:</b> Defense Rapid Innovation Fund                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 175.000        | 225.000        |
| <b>FY 2014 Accomplishments:</b> Funds will be used for research and development in the key areas defined by the Army, Navy, Air Force and various Agencies/Programs within the Office of the Secretary of Defense. Investments are targeted to defense requirements within the budget year of execution. For example, in FY 2011-FY 2012, the emphasis was on responding to urgent operational issues in support of ongoing global operations, including Afghanistan. In FY 2013-FY 2014, requirements migrated to supporting better buying power, providing an avenue for technology innovation and refresh for legacy defense acquisition programs. Some capabilities enabled to date include: 1) the Army Advanced Combat Surveillance Kit, a lightweight, low-power sensor for unattended, localization and tracking of dismounts and vehicles in challenging operational environments; 2) the Navy's Port Security Barrier Intrusion Detection System, which uses an optic-electronic alarm and software system that monitors gates to ensure threats cannot exploit undetected gaps; 3) the Air Force Lightweight Tactical Suitcase Portable Receive Suite, which enables deployed military forces to access global broadcast systems for satellite imagery, weather info, map data, classified and unclassified intelligence; and 4) the US Special Operations Command's Multi-Missile Common Launch Tube, which doubles the number of targets that can be engaged from the same platform, with increased precision that minimizes collateral damage. |                |                |
| <b>FY 2015 Plans:</b> Funds will be used for research and development in the key areas defined by the Army, Navy, Air Force and various Agencies/Programs within the Office of the Secretary of Defense. Investments are targeted to defense requirements within the budget year of execution. The defense wide focus areas for the FY2015 Rapid Innovation Fund Program include; 1) Deliver near term, emerging technologies to enhance the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Office of the Secretary Of Defense |                                                                                                     | <b>Date:</b> February 2015                                                     |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                                 | <b>R-1 Program Element (Number/Name)</b><br>PE 0604775D8Z / <i>Defense Rapid Innovation Program</i> | <b>Project (Number/Name)</b><br>P775 / <i>Defense Rapid Innovation Program</i> |

  

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>FY 2014</b> | <b>FY 2015</b> |
| capabilities for current Military operations; 2) Innovative technologies that enhance position, navigation, timing accuracies, improve targeting/delivery in GPS-denied environments and prevent exploitation of systems lost in denied areas (e.g., anti-tamper capabilities); 3) Develop and demonstrate breakthrough technologies for future Military capabilities. FY2015 funds will be distributed evenly between the services (Army, Navy, Air Force) and the 4th estate agencies. |                |                |
| <b>Congressional Adds Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 175.000        | 225.000        |

  

**C. Other Program Funding Summary (\$ in Millions)**  
 N/A

**Remarks**

  

**D. Acquisition Strategy**  
 N/A

  

**E. Performance Metrics**  
 Each RIF project is evaluated at its conclusion based on two measures: 1) technical performance, or extent the RIF project is meeting its technical goals, with an assessment of cost, schedule, and deliverables against stated objectives; and 2) transition status, or the extent to which an acquisition program or customer has been identified and is participating in procuring the technology, assuming the RIF project is successful.

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|                                                                                                 |  |  |  |  |  |                                                                                              |  |  |  |                                                                         |  |  |                            |  |  |
|-------------------------------------------------------------------------------------------------|--|--|--|--|--|----------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------|--|--|----------------------------|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2016 Office of the Secretary Of Defense |  |  |  |  |  |                                                                                              |  |  |  |                                                                         |  |  | <b>Date:</b> February 2015 |  |  |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                                |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0604775D8Z / Defense Rapid Innovation Program |  |  |  | <b>Project (Number/Name)</b><br>P775 / Defense Rapid Innovation Program |  |  |                            |  |  |

  

| Product Development (\$ in Millions) |                        |                                |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total |                  |            |                          |
|--------------------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                   | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| Army, Navy, Air Force, Fourth Estate | C/FFP                  | Various : Various              | 418.008     | 101.850 |            | 131.625 |            | -            |            | -           |            | -             | -                | 651.483    | -                        |
| <b>Subtotal</b>                      |                        |                                | 418.008     | 101.850 |            | 131.625 |            | -            |            | -           |            | -             | -                | 651.483    | -                        |

  

**Remarks**  
 Provided, That of the funds made available in this paragraph, \$225,000,000 for the Defense Rapid Innovation Program shall only be available for expenses, not otherwise provided for, to include program management and oversight, to conduct research, development, test and evaluation to include proof of concept demonstration; engineering, testing, and validation; and transition to full-scale production

  

| Test and Evaluation (\$ in Millions) |                        |                                |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total |                  |            |                          |
|--------------------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                   | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| Army, Navy, Air Force, Fourth Estate | C/FFP                  | Various : Various              | 0.000       | 67.900  |            | 86.625  |            | -            |            | -           |            | -             | -                | 154.525    | -                        |
| <b>Subtotal</b>                      |                        |                                | 0.000       | 67.900  |            | 86.625  |            | -            |            | -           |            | -             | -                | 154.525    | -                        |

  

**Remarks**  
 Provided, That of the funds made available in this paragraph, \$225,000,000 for the Defense Rapid Innovation Program shall only be available for expenses, not otherwise provided for, to include program management and oversight, to conduct research, development, test and evaluation to include proof of concept demonstration; engineering, testing, and validation; and transition to full-scale production

  

| Management Services (\$ in Millions) |                        |                                |             | FY 2014 |            | FY 2015 |            | FY 2016 Base |            | FY 2016 OCO |            | FY 2016 Total |                  |            |                          |
|--------------------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item                   | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          | Cost To Complete | Total Cost | Target Value of Contract |
| Army, Navy, Air Force, Fourth Estate | C/FFP                  | Various : Various              | 0.000       | 5.250   |            | 6.750   |            | -            |            | -           |            | -             | -                | 12.000     | -                        |
| <b>Subtotal</b>                      |                        |                                | 0.000       | 5.250   |            | 6.750   |            | -            |            | -           |            | -             | -                | 12.000     | -                        |

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|--------------------------------------------------------------------------------------|--|--|-------------|---------|---------------------------------------------------------------------------------------|---------|--|--------------|--|------------------------------------------------------------------|---------------------|---------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Office of the Secretary Of Defense |  |  |             |         |                                                                                       |         |  |              |  |                                                                  | Date: February 2015 |               |                  |            |                          |
| Appropriation/Budget Activity<br>0400 / 4                                            |  |  |             |         | R-1 Program Element (Number/Name)<br>PE 0604775D8Z / Defense Rapid Innovation Program |         |  |              |  | Project (Number/Name)<br>P775 / Defense Rapid Innovation Program |                     |               |                  |            |                          |
|                                                                                      |  |  | Prior Years | FY 2014 |                                                                                       | FY 2015 |  | FY 2016 Base |  | FY 2016 OCO                                                      |                     | FY 2016 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals                                                                  |  |  | 418.008     | 175.000 |                                                                                       | 225.000 |  | -            |  | -                                                                |                     | -             | -                | 818.008    | -                        |

**Remarks**

The defense wide focus areas for the FY2015 Rapid Innovation Fund Program include: 1) Deliver near-term, emerging technologies to enhance the capabilities for current military operations; 2) Innovative technologies that enhance position, navigation, timing accuracies, improve targeting/delivery in GPS-denied environments and prevent exploitation of systems lost in denied areas (e.g., anti-tamper capabilities); 3) Develop and demonstrate breakthrough technologies for future military capabilities. FY2015 funds will be distributed evenly between the Services (Army, Navy, Air Force) and the fourth estate agencies.

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|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2016 Office of the Secretary Of Defense |                                                                                                     | <b>Date:</b> February 2015                                                     |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                           | <b>R-1 Program Element (Number/Name)</b><br>PE 0604775D8Z / <i>Defense Rapid Innovation Program</i> | <b>Project (Number/Name)</b><br>P775 / <i>Defense Rapid Innovation Program</i> |

## Rapid Innovation Fund (RIF) Program (Milestones: 2014 Funding Execution)

**As Of: May 22, 2014**

| Date(s)                                            | Action                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| January 3, 2014<br>January 17, 2014                | <ul style="list-style-type: none"> <li>FY 2014 National Defense Authorization Act Signed</li> <li>FY 2014 Consolidated Appropriations Act Signed</li> </ul>                                                                                                                 |
| February 1 – May 22, 2014                          | <ul style="list-style-type: none"> <li>OSD Issues 2014 Implementation Guidelines</li> <li>Components develop requirements aligned to Defense-Wide focus areas</li> <li>OSD &amp; Components collaborate for single BAA prep and establish portal(s) requirements</li> </ul> |
| May 23 – June 23, 2014                             | <b>BAA Pre-Release in FEBIZOPPs (links posted at other portals / websites)</b> <ul style="list-style-type: none"> <li>Open period for public discussion with Defense technical PoCs</li> </ul>                                                                              |
| June 24, 2014<br><br>July 9, 2014<br>July 18, 2014 | <b>BAA Opens, Begin Accepting White Papers</b> <ul style="list-style-type: none"> <li>Public discussion limited to formal questions submitted to RIF Portal</li> </ul> <b>Portal closes to new questions</b><br><b>Answers to all formal questions posted</b>               |
| August 8, 2014                                     | <b>BAA Closes: White Papers (WPs) due from offerors</b>                                                                                                                                                                                                                     |
| NLT December 18, 2014                              | <ul style="list-style-type: none"> <li>Components complete WP evaluations</li> <li>Source selection authority establishes initial priorities &amp; ranking</li> </ul>                                                                                                       |
| NLT January 9, 2015                                | <b>Components notify all offerors &amp; invite full proposals</b>                                                                                                                                                                                                           |
| NLT February 13, 2015                              | <b>Full proposals due from offerors (about 30 days after invite)</b>                                                                                                                                                                                                        |
| NLT March 20, 2015                                 | <b>Components evaluate full proposals / complete ranking</b>                                                                                                                                                                                                                |
| NLT August 1, 2015                                 | <b>Complete proposal negotiations &amp; contract awards</b>                                                                                                                                                                                                                 |

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|                                                                                  |                                                                                          |                                                                  |                     |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Office of the Secretary Of Defense |                                                                                          |                                                                  | Date: February 2015 |
| Appropriation/Budget Activity<br>0400 / 4                                        | R-1 Program Element (Number/Name)<br>PE 0604775D8Z / Defense Rapid<br>Innovation Program | Project (Number/Name)<br>P775 / Defense Rapid Innovation Program |                     |

Schedule Details

| Events                               | Start   |      | End     |      |
|--------------------------------------|---------|------|---------|------|
|                                      | Quarter | Year | Quarter | Year |
| Army, Navy, Air Force, Fourth Estate | 2       | 2015 | 4       | 2015 |