Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 5: System

PE 0604604F / Submunitions

Development & Demonstration (SDD)

| 1 , | | | | | | | | | | | | |
|--|----------------|---------|---------|-----------------|-----------------------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| COST (\$ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO [#] | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
| Total Program Element | - | 2.352 | 2.564 | 2.543 | - | 2.543 | 2.617 | 2.655 | 2.708 | 2.761 | Continuing | Continuing |
| 653166: Joint Smart Munitions Test and Evaluation | - | 2.352 | 2.564 | 2.543 | - | 2.543 | 2.617 | 2.655 | 2.708 | 2.761 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | _ | - | - | - | - | - | - | - | | |

[#] The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Project Chicken Little (PCL) continues providing superior rapid reaction signature exploitation capabilities for use on both the traditional and the asymmetrical battlefield. PCL delivers vital one-of-a-kind research, development, test and evaluation (RDT&E) expertise directly to the warfighter, capability developer, and allied/coalition forces.

From its inception in 1985, PCL constantly advances the state-of-the-art for developmental smart munitions, seekers/sensors and their platforms. PCL also focuses its capability against today's networked weapons, emerging weapon concepts, and helps develop innovative targeting technologies to be employed against a wide variety of vehicle targets, theater air defense units, and an extensive array of associated equipment.

Combat systems and support equipment exhibit physical characteristics (i.e. signatures), and present certain vulnerabilities, which can be exploited by various targeting technologies leading to the elimination or incapacitation of the threat through the application of force (e.g. smart munitions or directed energy) or application of intelligence, surveillance, reconnaissance (ISR) methods. PCL collects physical, functional, and signature attributes of real foreign threat systems and related equipment; these data feed high-fidelity models used to predict detection, classification, vulnerability and effectiveness performance for ISR sensor and weapon system design. PCL collects high resolution signature data using a variety of ground, air, and space-based sensors against both new and existing (obtained, sustained, and maintained to be signature representative) foreign targets; with and without the presence of camouflage, concealment, and deception materials; and operated using enemy tactics/CONOPS. The resulting highly reliable, realistic data directly supports munitions/targeting development programs and helps mitigate overall acquisition risk. PCL serves as a major focal point for joint signature exploitation, collection, and dissemination amongst the DoD and intelligence community (IC). PCL is a prime contributor in the time critical process to rapidly exploit, assess, and determine US and allied weapon/targeting performance against high value targets. Customers include: the major Defense and Service Intelligence Centers, all Services, the Joint Technical Coordinating Group (JTCG) who develop the Joint Munitions Effectiveness Manuals (JMEMs), Combatant Commands, AF Major Commands, US Air Force Weapons School curriculum support, and others. Current projects include, but are not limited to: target signature exploitation, target geometric modeling (for identifying vulnerabilities), improving air capabilities against protected structures (specifically hard and deeply buried targets), and the testing of multiple se

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force Date: March 2014 Appropriation/Budget Activity R-1 Program Element (Number/Name) PE 0604604F / Submunitions

3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)

| FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---------|---|---------------------|-------------|---------------|
| 2.567 | 2.564 | 2.574 | - | 2.574 |
| 2.352 | 2.564 | 2.543 | - | 2.543 |
| -0.215 | - | -0.031 | - | -0.031 |
| -0.004 | - | | | |
| - | - | | | |
| - | - | | | |
| - | - | | | |
| - | - | | | |
| - | - | | | |
| - | - | | | |
| -0.211 | - | -0.031 | - | -0.031 |
| | 2.567 2.352 -0.215 -0.004 - - - - - | 2.567 | 2.567 | 2.567 |

Change Summary Explanation

Reduction of \$0.211M in FY13 due to sequestration.

| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|---|---------|---------|---------|
| Title: Model Development and Vulnerability Analysis | 0.375 | 0.150 | 0.380 |
| Description: Develop, validate, and accredit improved models for target vulnerability and weapons effectiveness in support of Combatant Commands' (CoCOMs) requirements. | | | |
| FY 2013 Accomplishments: Developed, validated, and accredited improved models for target vulnerability and weapons effectiveness in support of warfighter requirements. | | | |
| No OCONUS requirements. | | | |
| FY 2014 Plans: Develop, validate, and accredit improved computer models to determine target vulnerability and weapons effectiveness in support of warfighter requirements. | | | |
| No OCONUS requirements. | | | |
| FY 2015 Plans: Develop, validate, and accredit improved computer models to determine target vulnerability and weapons effectiveness in support of warfighter requirements. | | | |

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| | Date: M | larch 2014 | |
|---|---|--|---|
| R-1 Program Element (Number/Name) PE 0604604F / Submunitions | , | | |
| | FY 2013 | FY 2014 | FY 2015 |
| | | | |
| | 0.820 | 0.450 | 0.840 |
| s obtained from high-value, signature representative | | | |
| ured to support OCONUS collections as dictated by | | | |
| nreat systems in various environments using | | | |
| | | | |
| | | | |
| varfighter interest using multi-spectral collection echnologies. | | | |
| ding for the bi-annual Sensor Week. | | | |
| ta from multiple threat systems in various | | | |
| | | | |
| | 0.020 | 0.950 | 0.020 |
| area, Sensor Week occurs in even years and stration/validation of candidate Seeker/Sensor/ISR | | | |
| | PE 0604604F / Submunitions s obtained from high-value, signature representative ured to support OCONUS collections as dictated by a nreat systems in various environments using varfighter interest using multi-spectral collection echnologies. ding for the bi-annual Sensor Week. ta from multiple threat systems in various es | PE 0604604F / Submunitions FY 2013 0.820 c obtained from high-value, signature representative ured to support OCONUS collections as dictated by arreat systems in various environments using varfighter interest using multi-spectral collection echnologies. ding for the bi-annual Sensor Week. ta from multiple threat systems in various es 0.020 area, Sensor Week occurs in even years and | PE 0604604F / Submunitions FY 2013 FY 2014 0.820 0.450 c obtained from high-value, signature representative ured to support OCONUS collections as dictated by arreat systems in various environments using varfighter interest using multi-spectral collection echnologies. ding for the bi-annual Sensor Week. ta from multiple threat systems in various area, Sensor Week occurs in even years and |

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|--|--|---------|------------|---------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force | | Date: N | larch 2014 | |
| Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD) | R-1 Program Element (Number/Name) PE 0604604F / Submunitions | | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2013 | FY 2014 | FY 2015 |
| Sensor Week is a specialized venue of the System Exploitation Major Thrust a thrust receives the majority of the program element funding. During odd caler planning the next Sensor Week. | | | | |
| FY 2013 Accomplishments: Sensor Week (SW) provided a singularly unique forum for joint service demonsensors/ISR assets against a wide array of US, coalition, and foreign national | | | | |
| No OCONUS requirements. | | | | |
| FY 2014 Plans: Sensor Week (SW) provides a singularly unique forum for joint service demon sensors/ISR assets against a wide array of US, coalition, and foreign national | | | | |
| FY 2015 Plans: Sensor Week (SW) provides a singularly unique forum for joint service demon sensors/ISR assets against a wide array of US, coalition, and foreign national | | | | |
| Title: ISR Exploitation | | 0.337 | 0.214 | 0.503 |
| Description: Plan and conduct captive carry flight tests and signature collection | on for seeker/sensor technology evaluations. | | | |
| FY 2013 Accomplishments: Exploited the signatures of ISR targets; conducted rapid reaction performance MAJCOM immediate/urgent warfighter needs; optimized current project method | | | | |
| No OCONUS requirements. | | | | |
| FY 2014 Plans: Exploit the signatures of high priority targets for use in ISR direct combat support performance analysis & evaluations in support of COCOM/MAJCOM immedia methods to support ISR testing | | | | |
| FY 2015 Plans: Exploit the signatures of ISR targets; conduct rapid reaction performance analimmediate/urgent warfighter needs; optimize current project methods to support | | | | |
| | | | | |

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| Exhibit R-2, RDT&E Budget Iter | m Justification: | PB 2015 Air | Force | | | , | | | Date: M | arch 2014 | |
| Appropriation/Budget Activity 3600: Research, Development, T Development & Demonstration (S | | Air Force I | BA 5: <i>Syster</i> | | r ogram Elei 04604F / Sເ | nent (Numb Ibmunitions | er/Name) | | | | |
| C. Accomplishments/Planned F | Programs (\$ in N | Millions) | | | | | | F | Y 2013 | FY 2014 | FY 2015 |
| No OCONUS requirements. | | | | | | | | | | | |
| Title: Fleet Relevance | | | | | | | | | 0.800 | 0.800 | 0.800 |
| Description: Obtain/maintain hig | gh value signatur | e quality thre | eat assets. | | | | | | | | |
| Project Chicken Little manages the and other government threat cap Little provides combat representations. | abilities remain o | | | | | | | | | | |
| FY 2013 Accomplishments: Assisted in obtaining relevant, higher remain properly "signature representations." | | | | | Ensured the | fleet foreign | threat asse | ts | | | |
| No OCONUS requirements. | | | | | | | | | | | |
| FY 2014 Plans: Assist in obtaining relevant, high properly "signature representative supporting the development of 5t generation ISR capabilities, and | e" for systems de th generation figh | evelopment a iter weapon | and testing. systems, Te | Combat rep echniques, Ta | resentative | signatures ar | e critical wh | | | | |
| FY 2015 Plans: | | | | | | | | | | | |
| Assist in obtaining relevant, high | | | | r decoys. En | sure the flee | et foreign thre | eat assets re | emain | | | |
| properly "signature representative | e" for systems de | evelopment a | and testing. | | | | | | | | |
| No OCONUS requirements. | | | | | | | | | | | |
| | | | | Accon | nplishment | s/Planned P | rograms Sເ | ubtotals | 2.352 | 2.564 | 2.543 |
| D. Other Program Funding Sun | nmary (\$ in Milli | ons) | | | | | | | | | |
| | | | FY 2015 | FY 2015 | FY 2015 | | | | | Cost To | |
| Line Item | FY 2013 | FY 2014 | <u>Base</u> | 000 | <u>Total</u> | FY 2016 | FY 2017 | FY 2018 | FY 2019 | <u>Complete</u> | Total Cost |
| • None: N/A | - | - | - | - | - | - | - | - | - | - | - |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
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| Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD) | R-1 Program Element (Number/Name) PE 0604604F / Submunitions | |
| E. Acquisition Strategy | | |
| Funds are executed organically in support of test and evaluation activities including studies, analyses, flight & ground tests, model building and simulation. Virtually all of the work is performed in-house by the 46th Test Wil | ng. | |
| F. Performance Metrics | | |
| Please refer to the Performance Base Budget Overview Book for information Force performance goals and most importantly, how they contribute to our mi | | esources are contributing to Air |
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PE 0604604F: Submunitions
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| Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force | | | Date: March 2014 |
|--|---|-----|--|
| | , | , , | umber/Name) oint Smart Munitions Test and |

SCHEDULE

Project 3166, Joint Smart Munition Test and Evaluation program (project Chicken Little) does not execute in accordance with established acquisition milestones. Chicken Little is a continuing test effort: Target/warhead evaluation/analysis, signature tests, and captive carry flight tests are ongoing throughout the year and continue through the FYDP. The type of activities is given in Section B. The timing, duration, and level of effort is decided at the annual Steering Committee meetings.

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