Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United States Special Operations Command

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 1160422BB: Aviation Engineering Analysis

BA 3: Advanced Technology Development (ATD)

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	4.628	0.837	0.861	-	0.861	0.876	0.891	0.906	0.921	Continuing	Continuing
SF101: Aviation Engineering Analysis	4.628	0.837	0.861	-	0.861	0.876	0.891	0.906	0.921	Continuing	Continuing

### A. Mission Description and Budget Item Justification

This program element provides rapid response capability for the investigation, evaluation, and demonstration of technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: sensor integration; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation; target detection; and future SOF aircraft requirements.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	4.234	0.837	0.851	-	0.851
Current President's Budget	4.628	0.837	0.861	-	0.861
Total Adjustments	0.394	-	0.010	-	0.010
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	0.521	-			
SBIR/STTR Transfer	-0.105	-			
Other Adjustments	-0.022	-	0.010	-	0.010

# **Change Summary Explanation**

Funding:

FY 2011: Net increase of \$0.394 million is due to economic assumption reduction (-\$0.022 million), transfer to Small Business Innovative Research (-\$0.105 million) and a reprogramming of funding for engineering studies and analysis of (\$0.521 million).

FY 2012: None.

FY 2013: Increase is due to an economic assumption increase (\$0.010 million).

PE 1160422BB: Aviation Engineering Analysis United States Special Operations Command

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**DATE:** February 2012

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 United Sta	ates Special Operations Command	<b>DATE:</b> February 2012		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	PE 1160422BB: Aviation Engineering Analysis			
Schedule: None.				
Technical: None.				

PE 1160422BB: *Aviation Engineering Analysis* United States Special Operations Command

Exhibit R-2A, RDT&E Project Justification: PB 2013 United States Special Operations Command							<b>DATE</b> : February 2012				
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide				PE 1160422BB: Aviation Engineering Analysis				SF101: Aviation Engineering Analysis			
BA 3: Advanced Technology Develo	pment (ATD)										
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
SF101: Aviation Engineering Analysis	4.628	0.837	0.861	-	0.861	0.876	0.891	0.906	0.921	Continuing	Continuing

### A. Mission Description and Budget Item Justification

This project provides a rapid response capability to support SOF fixed wing aircraft and unmanned aircraft systems. The purpose is to correct system deficiencies, improve asset life, and enhance mission capability through the means of feasibility studies, analysis of alternatives, pre-developmental risk reduction studies, and engineering analyses. This project provides the engineering required to improve the design and performance integrity of the aircraft support systems, sub-systems, equipment, and embedded computer software as they relate to the maintenance, overhaul, repair, quality assurance, modifications, materiel improvements, and service life extensions. Also conducts risk reduction studies, analyses, and demonstrations to support emerging, time critical weapons and sensor enhancements.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Aviation Engineering Analysis	4.628	0.837	0.861
FY 2011 Accomplishments: Performed engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions.			
FY 2012 Plans: Performs engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions.			
FY 2013 Plans: Perform engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions.			
Accomplishments/Planned Programs Subtotals	4.628	0.837	0.861

## C. Other Program Funding Summary (\$ in Millions)

N/A

## D. Acquisition Strategy

N/A

#### **E. Performance Metrics**

N/A

PE 1160422BB: Aviation Engineering Analysis United States Special Operations Command

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