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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 United States Special Operations Command **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160428BB: <i>Unmanned Vehicles/S850</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	41.352	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S850: <i>Unmanned Vehicles</i>	41.352	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element addresses spiral development efforts validated in requirements documents; supports development testing; and integrates system upgrades for increased aircraft endurance, reduced aircraft signature, increased telemetry range, and increased payload capacity for the Small Unmanned Aircraft System, Multi-Mission Unmanned Aircraft System, and Global Observer to meet Special Operations Forces mission requirements.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	41.409	0.000	0.000	0.000	0.000
Current President's Budget	41.352	0.996	0.000	0.000	0.000
Total Adjustments	-0.057	0.996	0.000	0.000	0.000
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.996			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.057	0.000			

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

Project: S850: *Unmanned Vehicles*

Congressional Add: *Global Observer*

Congressional Add: *Lethal Miniature Air Munitions System*

Congressional Add Subtotals for Project: S850

	FY 2009	FY 2010
	39.886	0.000
	0.000	0.996
	39.886	0.996

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Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2009	FY 2010
Congressional Add Totals for all Projects	39.886	0.996

Change Summary Explanation

Funding:

FY09: Decrease of -\$0.057 million is due to a Small Business Innovative Research adjustment.

FY10: Increase is due to a congressional add, less economic assumptions.

FY11: None.

Schedule: None.

Technical: None.

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S850: <i>Unmanned Vehicles</i>	41.352	0.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project addresses spiral development efforts validated in requirements documents; supports development testing; integrates system upgrades under an evolutionary acquisition strategy to obtain objective SOF mission requirements; develops upgrades which include improved flight endurance for the Rucksack Portable Unmanned Aircraft System (RPUAS); high altitude, long endurance unmanned aircraft system development with the Global Observance (GO) Joint Capability Technology Demonstration; and hand-held, lethal small unmanned aircraft system technologies with the Lethal Miniature Air Munitions System.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
RPUAS <i>FY 2009 Accomplishments:</i> Develop and test RPUAS aircraft flight endurance improvements.	1.466	0.000	0.000	0.000	0.000
Accomplishments/Planned Programs Subtotals	1.466	0.000	0.000	0.000	0.000

	FY 2009	FY 2010
Congressional Add: Global Observer <i>FY 2009 Accomplishments:</i> This initiative was a Congressional Add for Global Observer JCTD. Designs, develops, test, and evaluate high-altitude, long-endurance unmanned aircraft system technologies	39.886	0.000
	0.000	0.996

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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010
Congressional Add: Lethal Miniature Air Munitions System <i>FY 2010 Plans:</i> This initiative is a Congressional Add. Develops, tests, and evaluates hand-held, lethal small unmanned aircraft system technologies		
Congressional Adds Subtotals	39.886	0.996

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

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC: <i>Unmanned Vehicle</i>	41.362	0.996								0	239.909

D. Acquisition Strategy

Preplanned product improvements to be implemented as evolutionary upgrades to RPUAS.

Hand-held, lethal small unmanned aircraft system technologies implemented into LMANS

E. Performance Metrics

N/A

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