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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 1160476BB: <i>SOF Tactical Radio Systems/S725</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	0.000	2.358	2.347	0.000	2.347	0.000	0.000	0.000	0.000	Continuing	Continuing
<i>S725: SOF Tactical Radio Systems</i>	0.000	2.358	2.347	0.000	2.347	0.000	0.000	0.000	0.000	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The Special Operations Forces (SOF) Tactical Radio Systems program element is for development of all SOF tactical radio programs. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require radio communication equipment that improves their warfighting capability without degrading their mobility.

United States Special Operations Command has developed an overall strategy to ensure that Tactical Radio Systems continue to provide SOF with the required capabilities throughout the 21st century. The Tactical Radios provide the critical Command, Control, and Communication link between SOF Commanders and SOF Teams involved in overseas contingency operations (OCO) and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed Command and Control communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

**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	0.000	2.368	0.000	0.000	0.000
Current President's Budget	0.000	2.358	2.347	0.000	2.347
Total Adjustments	0.000	-0.010	2.347	0.000	2.347
• Congressional General Reductions		-0.010			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	2.347	0.000	2.347

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**Change Summary Explanation**

Funding:

FY09: None.

FY10: Decrease of -\$0.010 million is due Section 8097 Congressional general reductions.

FY11: Increase of \$2.347 million is due to the DoD not estimating FY 2011 cost when the FY 2010 President's Budget was prepared.

Schedule: None

Technical: None

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 1160476BB: <i>SOF Tactical Radio Systems/ S725</i>	<b>PROJECT</b> S725: <i>SOF Tactical Radio Systems</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
S725: <i>SOF Tactical Radio Systems</i>	0.000	2.358	2.347	0.000	2.347	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											

**A. Mission Description and Budget Item Justification**

The SOF Tactical Radio Systems project is for development of all SOF radio programs. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require radio communication equipment that improves their warfighting capability without degrading their mobility. Sub-project:

- Special Mission Radio System (SMRS). Effort develops Low Probability of Intercept/Low Probability of Detection (LPI/LPD) waveforms for SOCOM tactical radio application.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
SMRS <i>FY 2010 Plans:</i> Develop and test LPI/LPD transceiver board upgrades and waveforms for SOCOM tactical radio application.  <i>FY 2011 Base Plans:</i> Continue developing and testing LPI/LPD transceiver board upgrades and waveforms for SOCOM tactical radio application.	0.000	2.358	2.347	0.000	2.347
Accomplishments/Planned Programs Subtotals	0.000	2.358	2.347	0.000	2.347

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 United States Special Operations Command		<b>DATE:</b> February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 1160476BB: <i>SOF Tactical Radio Systems/</i> S725	<b>PROJECT</b> S725: <i>SOF Tactical Radio Systems</i>

**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>
• PROC1: <i>Tactical Radios</i>	30.973	62.306	35.234		35.234	71.915	74.814	70.779	62.808	Continuing	Continuing
• PROC2: <i>Comm/Equip &amp; Electronics</i>	83.162	56.910	58.390		58.390	79.935	99.202	79.884	74.911	Continuing	Continuing

**D. Acquisition Strategy**

- SMRS LPI/LPD transceiver board upgrades and waveform development continues under Technical Support Group management and oversight.

**E. Performance Metrics**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 United States Special Operations Command** **DATE:** February 2010

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**Product Development (\$ in Millions)**

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total		Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date			
Special Mission Radio System	MIPR	Technical Support Group (TSG) Norfolk, VA	0.000	2.358	Jan 2010	2.347	Jan 2011	0.000		2.347		0	4.705	Continuing
<b>Subtotal</b>			0.000	2.358		2.347		0.000		2.347	0.000	4.705		

**Remarks**

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
		Cost	Award Date	Cost	Award Date	Cost	Award Date				
<b>Project Cost Totals</b>	0.000	2.358		2.347		0.000		2.347	0.000	4.705	

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2011 United States Special Operations Command</b>		<b>DATE:</b> February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 1160476BB: <i>SOF Tactical Radio Systems/</i> S725	<b>PROJECT</b> S725: <i>SOF Tactical Radio Systems</i>

<b>Exhibit R-4, RDT&amp;E Program Schedule Profile</b>																Date: FEBRUARY 2010															
Appropriation/Budget Activity																Program Element Number and Name								Project Number and Name							
RDT&E7																PE1160476BB/SOF Tactical Radio Systems								Project S725/SOF Tactical Radio Systems							
Fiscal Year	2009				2010				2011				2012				2013				2014				2015						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Special Mission Radio System																															
Waveform Development																															

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2011 United States Special Operations Command **DATE:** February 2010

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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Special Mission Radio System Waveform Development	2	2010	4	2011

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