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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605867N: <i>Space & Elec War Surv/Recon</i>
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	0.000	7.642	8.000	7.134	-	7.134	8.520	8.346	8.000	8.144	Continuing	Continuing
1034: TAC SAT Recon Office	0.000	7.642	8.000	7.134	-	7.134	8.520	8.346	8.000	8.144	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

(U) Link Crimson (Navy TENCAP) is a congressionally directed program to conduct space-related R&D in order to field integrated national-to-tactical system capabilities in response to OPLANS for PACOM and CENTCOM. TENCAP responds to the fleet's top, strategically important capability gaps within National systems and is the Navy's primary interface with the NRO and national agencies for the rapid fielding (12-18 months) of cutting edge technology. These include advanced sensors, onboard and ground processing, and integrated information fusion capabilities. Link Crimson supports operational missions in Enterprise ISR Convergence, Irregular Warfare, Overseas Contingency Operations (OCO), Anti-Submarine Warfare (ASW), Maritime Domain Awareness (MDA), Information Operations (IO), Anti-Surface Warfare (ASUW), Mine Warfare (MIW), Environmental Data (METOC), ISR Mgmt / Battlespace Awareness (BA).

(U) This program is funded under Budget Activity 6 because it supports the operations and installations required for general research and development use. Program baseline will also address research and development into Strategic Signals; Undersea and Irregular Warfare; Counter Unmanned Air Systems; Processing, Exploitation, and Dissemination; Commercial Navigation Radar Threats; Maritime Intelligence Fusion; Open Ocean Surveillance; Threat Geo-location; and Command & Control. Link Crimson also supports and participates in Fleet exercises, which provide the venue for testing and demonstrating new prototype capabilities and enhancements. Link Crimson holistically develops warfighting capabilities by synchronizing insertion of technologies with existing Navy, joint, and national agency programs. Additional detailed information is available at a higher level of classification.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	7.642	8.000	8.000	-	8.000
Current President's Budget	7.642	8.000	7.134	-	7.134
Total Adjustments	0.000	0.000	-0.866	-	-0.866
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	-0.866	-	-0.866

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support					R-1 ITEM NOMENCLATURE PE 0605867N: Space & Elec War Surv/ Recon				PROJECT 1034: TAC SAT Recon Office			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
1034: TAC SAT Recon Office	0.000	7.642	8.000	7.134	-	7.134	8.520	8.346	8.000	8.144	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
(U) Link Crimson (Navy TENCAP) is a congressionally directed program to conduct space-related R&D in order to field integrated national-to-tactical system capabilities in response to emergent fleet requirements. TENCAP responds to the fleet's top, strategically important capability gaps within National systems and is the Navy's primary interface with the NRO and national agencies for the rapid fielding (12-18 months) of cutting edge technology. These include advanced sensors, onboard and ground processing, and integrated information fusion capabilities. Link Crimson supports operational missions in Enterprise ISR Convergence, Irregular Warfare, Overseas Contingency Operations (OCO), Anti-Submarine Warfare (ASW), Maritime Domain Awareness (MDA), Information Operations (IO), Anti-Surface Warfare (ASUW), Mine Warfare (MIW), Environmental Data (METOC), ISR Mgmt / Battlespace Awareness (BA).												
(U) Z1034: Established to exploit all National and Service sensor systems to improve tactical support to Fleet operational commanders. Project also supports equipment upgrades, training and Fleet exercises which provide the venue for testing modifications to existing programs.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Anti-Submarine Warfare (ASW) Articles: Description: Develop a holistic ASW capability, integrating all ASW sensors (tactical, theater, national) via one integrated architecture and CONOPS for Tasking, Processing, Exploitation and Dissemination. Field automated TCPED systems to enable rapid dissemination of ASW/MIW data to fleet units and MOCs. FY 2012 Accomplishments: Additional details with respect to this line item are held at a higher classification. FY 2013 Plans: Additional details with respect to this line item are held at a higher classification. FY 2014 Plans: Additional details with respect to this line item are held at a higher classification.									0.300	0.500	0.500	
									0	0	0	
Title: Multi-Int. Data Integration and Advanced Analytics									1.000	1.000	1.000	
Articles:									0	0	0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Description: Field a Naval Tactical Cloud architecture scaled to all afloat CRUDES, SUBFOR, Large Deck Carriers, and selected airborne ISR platforms -- leveraging existing COTS/GOTS technologies. Objective is to integrate and be able to fuse data and analytic services working across all ISR sensors, C2 decision-making systems, and Combat Systems. FY 2012 Accomplishments: Additional details with respect to this line item are held at a higher classification. FY 2013 Plans: Additional details with respect to this line item are held at a higher classification. FY 2014 Plans: Additional details with respect to this line item are held at a higher classification.				
Title: Open Ocean Surveillance (OOS) Articles:		2.672 0	3.000 0	2.134 0
Description: Develop and field maritime- specific ISR capabilities that leverage global coverage of GEOINT /ELINT systems. Focus on automatic identification and geolocation of Vessels of Interest and other targets of interest. FY 2012 Accomplishments: Additional details with respect to this line item are held at a higher classification. FY 2013 Plans: Additional details with respect to this line item are held at a higher classification. FY 2014 Plans: Additional details with respect to this line item are held at a higher classification.				
Title: Strategic Signals and Unmanned Systems Articles:		1.800 0	2.400 0	2.400 0
Description: Exploit strategically important foreign Command and Control systems to support top fleet OPLAN's for PACOM and CENTCOM. 2. Support improved Indications & Warning of adversary Unmanned Aircraft System (UAS). Support the development and improvement of Navy's Counter-UAS capabilities across the Joint integrated kill chain (surveillance, identification, and negation). FY 2012 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Additional details with respect to this line item are held at a higher classification. FY 2013 Plans: Additional details with respect to this line item are held at a higher classification. FY 2014 Plans: Additional details with respect to this line item are held at a higher classification.				
Title: National-to-Tactical Payload Integration Articles: Description: Develop capability integrating sensor payload processing, communications, and cryptographic security within a reconfigurable mission package for all unmanned, manned, and unattended ISR platforms (air, surface, subsurface). SRP SWAP offers several orders of magnitude less Space, Weight and Power (SWaP). FY 2012 Accomplishments: Additional details with respect to this line item are held at a higher classification. FY 2013 Plans: Additional details with respect to this line item are held at a higher classification. FY 2014 Plans: Additional details with respect to this line item are held at a higher classification.		0.670 0	0.600 0	0.600 0
Title: Precision Fires & Geolocation Articles: Description: Support and improve the interoperation of national and tactical sensor systems to perform precision geolocation of SIGINT related emitters. 2. Improve the timely and efficient use of tactical imagery to support precision strike targeting and imagery analysis. Improve precision strike targeting through the use of Advanced NTM Imagery. FY 2012 Accomplishments: Additional details with respect to this line item are held at a higher classification. FY 2013 Plans: Additional details with respect to this line item are held at a higher classification. FY 2014 Plans: Additional details with respect to this line item are held at a higher classification.		1.200 0	0.500 0	0.500 0
Accomplishments/Planned Programs Subtotals		7.642	8.000	7.134

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• O&M,N/1C3C: <i>Space Systems & Surveillance</i>	0.230	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy
Not Applicable

E. Performance Metrics
Not Applicable