Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E

PE 1206867N I (U)SEW Surveillance/Reconnaissance Support

Management Support

COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	0.000	9.408	8.684	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.092
1034: TAC SAT Recon Office	0.000	9.408	8.684	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.092

#### Note

Efforts previously funded under PE 0605867N, Space & Elec War Surv/Recon. In FY18 and FY19 is funded under PE 1206867N SEW Surveillance/Reconnaissance Support. Beginning in FY20 is funded under PE 0605867N Space & Elec War Surv/Recon.

### A. Mission Description and Budget Item Justification

- (U) Link Crimson (Navy Tactical Exploitation of National Capabilities (TENCAP)) is a congressionally directed program to rapidly develop (12-18 months) systems, processes, and training that leverages and exploits National Technical Means (NTM) and Intelligence Community (IC) resources to meet fleet tactical warfighting gaps. This is done through innovative research and development of capabilities aligned with Navy Programs of Record (PoR), while influencing national systems support and development. These efforts include advanced sensors, platform and ground processing, and integrated national-to-tactical information fusion capabilities. Link Crimson supports all Navy mission areas, including Anti-Submarine Warfare (ASW), Integrated Air and Missile Defense, Mine Warfare (MIW), Power projection/Precision Strike, Maritime Domain Awareness (MDA), and Intelligence, Surveillance, and Reconnaissance (ISR), in support of the Navy's Information Dominance pillars: Assured Command and Control (AC2), Battlespace Awareness (BA) and Integrated Fires (IF).
- (U) This program is funded under Budget Activity 6 because it supports the operations and installations required for general research and development. Program baseline addresses research and development on specific capabilities to support these mission areas such as signals collection and exploitation, acoustic and electronic signal detection, countering Unmanned Air Systems, Processing, Exploitation, and Dissemination (PED) processes, Commercial Maritime Navigation Radar (CMNR) detection and exploitation, open-ocean surveillance, and hostile threat geo-location. Link Crimson fields both prototypes to demonstrate new capabilities in real world environments in coordination with operational users, and develops warfighting capabilities for insertion into Navy, joint, and national agency programs of record. Additional detailed information is available at higher levels of classification.
- (U) Project 1034: 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support

PE 1206867N I (U)SEW Surveillance/Reconnaissance Support

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	9.408	8.684	8.402	-	8.402
Current President's Budget	9.408	8.684	0.000	-	0.000
Total Adjustments	0.000	0.000	-8.402	-	-8.402
<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>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	-	-			
<ul> <li>Program Adjustments</li> </ul>	0.000	0.000	-8.402	-	-8.402
<ul> <li>Rate/Misc Adjustments</li> </ul>	0.000	0.000	0.000	-	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy								Date: March 2019				
Appropriation/Budget Activity 1319 / 6					,				<b>Project (N</b> 1034 / TAC		,	
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
1034: TAC SAT Recon Office	0.000	9.408	8.684	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	18.092
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

- (U) Link Crimson (Navy Tactical Exploitation of National Capabilities (TENCAP)) is a congressionally directed program to rapidly develop (12-18 months) systems, processes, and training that leverages and exploits National Technical Means (NTM) and Intelligence Community (IC) resources to meet fleet tactical warfighting gaps. This is done through innovative research and development of capabilities aligned with Navy Programs of Record (PoR), while influencing national systems support and development. These efforts include advanced sensors, platform and ground processing, and integrated national-to-tactical information fusion capabilities. Link Crimson supports all Navy mission areas, including Anti-Submarine Warfare (ASW), Integrated Air and Missile Defense, Mine Warfare (MIW), Power projection/Precision Strike, Maritime Domain Awareness (MDA), and Intelligence, Surveillance, and Reconnaissance (ISR), in support of the Navy's Information Dominance pillars: Assured Command and Control (AC2), Battlespace Awareness (BA) and Integrated Fires (IF).
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- (U) Project 1034: 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 2020	FY 2020	FY 2020
	FY 2018	FY 2019	Base	OCO	Total
Title: Assured Command and Control	0.962	0.721	0.000	0.000	0.000
Articles:	-	-	_	-	-
<b>Description:</b> The Navy must assure its ability to command and control forces. This requires capabilities that enable commanders to rapidly and with certainty: 1) exchange orders and responses with subordinates; 2) understand the disposition of friendly and adversarial forces, as well as uninvolved/neutral elements in the area of operations; 3) have access to target quality intelligence at the right time to conduct strikes as part of the joint force; and 4) assess the result of those strikes. Sensing the environment, understanding our adversaries, and operating and defending our communications and networked systems are inextricably linked to the assurance of C2.					

<u> </u>	NCLASSIFIED					
Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: Marc		
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/ PE 1206867N I (U)SEW Surveilla Reconnaissance Support	Project (Number/Name) 1034 / TAC SAT Recon Office				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities	s in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
FY 2019 Plans: Additional details with respect to this line item are held at a higher classificati	on.					
<b>FY 2020 Base Plans:</b> FY20 efforts will be funded under PE 0605867N, Space & Elec War Surv/Re to this line item are held at a higher classification.	con. Additional details with respect					
FY 2020 OCO Plans: N/A						
FY 2019 to FY 2020 Increase/Decrease Statement: FY20 efforts will be funded under PE 0605867N, Space & Elec War Surv/Reto this line item are held at a higher classification.	con. Additional details with respect					
Title: Battlespace Awareness	Articles:	6.072	5.831	0.000	0.000	0.000
<b>Description:</b> This is the traditional mission of the Navy's Information Warfard meteorology, oceanography, intelligence, cryptology, communications, network (EW). It includes: 1) persistent surveillance of the maritime and information be to employ existing and emerging collection capabilities to great effectiveness penetrating knowledge of the capabilities and intent of our adversaries to hole and 4) expertise within the electromagnetic spectrum. Automation in data extearning algorithms can significantly enhance the human analyst's ability to a the face of vast data repositories and numerous collection platforms/opportunity.	orks, space, and electronic warfare attlespace; 2) knowledge of how to gather critical intelligence; 3) dour successful operations at risk; raction and alignment and machine chieve battlespace awareness in					
FY 2019 Plans: Additional details with respect to this line item are held at a higher classificati	on.					
FY 2020 Base Plans: FY20 efforts will be funded under PE 0605867N, Space & Elec War Surv/Reto this line item are held at a higher classification.	con. Additional details with respect					
FY 2020 OCO Plans: N/A						
FY 2019 to FY 2020 Increase/Decrease Statement:						

**UNCLASSIFIED** 

PE 1206867N: *(U)SEW Surveillance/Reconnaissance Suppo...*Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy			Date: March 2019	
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 1206867N I (U)SEW Surveillance/ Reconnaissance Support	• `	lumber/Name) C SAT Recon Office	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
FY20 efforts will be funded under PE 0605867N, Space & Elec War Surv/Recon. Additional details with respect to this line item are held at a higher classification.					
Title: Integrated Fires  Articles:	2.374	2.132	0.000	0.000	0.000
<b>Description:</b> Integration of the right combination of kinetic and/or non-kinetic fires to achieve the desired effect on the target and on the adversary's decision calculus requires: 1) in-depth understanding of the adversary's centers of gravity and vulnerabilities; 2) the right fidelity of the target's location, movement, and window of vulnerability; 3) commander's confidence that the weapon is postured to achieve the desired effect; and 4) the ability to provide this information to the weapon system(s) and weapon release authority(ies) before the target can employ effective defensive measures.					
FY 2019 Plans: Additional details with respect to this line item are held at a higher classification.					
FY 2020 Base Plans: FY20 efforts will be funded under PE 0605867N, Space & Elec War Surv/Recon. Additional details with respect to this line item are held at a higher classification.					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement:  FY20 efforts will be funded under PE 0605867N, Space & Elec War Surv/Recon. Additional details with respect to this line item are held at a higher classification.					
Accomplishments/Planned Programs Subtotals	9.408	8.684	0.000	0.000	0.000

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

N/A

Remarks

## D. Acquisition Strategy

Not applicable

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Exhibit R-2A, RDT&E Project Justification: PB 2020 N	Navy	Date: March 2019
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 1206867N I (U)SEW Surveillance/ Reconnaissance Support	Project (Number/Name) 1034 / TAC SAT Recon Office
E. Performance Metrics		
Not applicable		

PE 1206867N: *(U)SEW Surveillance/Reconnaissance Suppo...*Navy