Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0205658N: Navy Science Assistance Progr

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

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	3.503	1.957	3.450	-	3.450	3.504	3.531	3.596	3.669	Continuing	Continuing
0834: LAB Fit Support	3.503	1.957	3.450	-	3.450	3.504	3.531	3.596	3.669	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Naval Science Advisor Program ensures the Fleet/Force (F/F) helps shape the Department of the Navy (DoN) investment in Science and Technology (S&T), develops teaming relationships to rapidly demonstrate and transition technology, supports development of technology-based capability options for naval forces, and enables warfighting innovations based on technical and conceptual possibilities. This is accomplished through proactive connectivity and collaboration between DoN S&T and Joint, Navy, and Marine Corps commands worldwide. The program accomplishes this through several methods. It provides Science Advisors to Joint, Navy, and Marine Corps operational and strategic planning commands. Science Advisors facilitate and disseminate Joint Capabilities Integration and Development System (JCIDS) requirements provided by the F/F Commanders to the Director of Navy Test and Evaluation and Technology Requirements (OPNAV N091). Science Advisors collaborate with the F/F to identify specific solutions to known operational capability needs and provide the means to develop and demonstrate prototype systems. As a result, Science Advisors provide insight into issues associated with Naval Warfighting Capabilities that influence S&T program decision making. The program develops leaders among civilian scientists and engineers in the Naval Research Enterprise (NRE). Upon completion of their tours, Science Advisors return to the NRE with first hand knowledge of the F/F, warfighting issues, and strategic decision making. The Office of Naval Research (ONR) Science Advisor program enables continuous communication and collaboration between the warfighters, the technical community, and strategic development commands.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	3.535	1.957	3.478	-	3.478
Current President's Budget	3.503	1.957	3.450	-	3.450
Total Adjustments	-0.032	-	-0.028	-	-0.028
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	_			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.014	-			
 Program Adjustments 	-	-	-0.021	-	-0.021
 Rate/Misc Adjustments 	-	-	-0.007	-	-0.007
 Congressional General Reductions Adjustments 	-0.018	-	-	-	-

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DATE: February 2012

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	'
1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	PE 0205658N: Navy Science Assistance Progr	
Change Summary Explanation Technical: Not applicable.		
Schedule: Not applicable.		

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development								PROJECT 0834: LAB Fit Support			
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
0834: LAB Fit Support	3.503	1.957	3.450	-	3.450	3.504	3.531	3.596	3.669	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-24 RDT&F Project Justification: PR 2013 Navv

The Naval Science Advisor Program ensures the F/F helps shape the DoN investment in S&T, develops teaming relationships to rapidly demonstrate and transition technology, supports development of technology-based capability options for naval forces, and enables warfighting innovations based on technical and conceptual possibilities. This is accomplished through proactive connectivity and collaboration between DoN S&T and Joint, Navy, and Marine Corps commands worldwide. The program accomplishes this through several methods. It provides Science Advisors to Joint, Navy, and Marine Corps operational and strategic planning commands. Science Advisors facilitate and disseminate JCIDS requirements provided by the F/F Commanders to the OPNAV N091. Science Advisors collaborate with the F/F to identify specific solutions to known operational capability needs and provide the means to develop and demonstrate prototype systems. As a result, Science Advisors provide insight into issues associated with Naval Warfighting Capabilities that influence S&T program decision making. The program develops leaders among civilian scientists and engineers in the NRE. Upon completion of their tours, Science Advisors return to the NRE with firsthand knowledge of the F/F, warfighting issues, and strategic decision making. The Office of Naval Research (ONR) Science Advisor program enables continuous communication and collaboration between the warfighters, the technical community, and strategic development commands.

FY12 decrease (-\$1.5M) results from one year (FY12 only) decrease to respond to POM-12 DPPG S&T fiscal guidance.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: NAVAL SCIENCE ADVISOR PROGRAM	3.503	1.957	3.450
Articles:	0	0	0
FY 2011 Accomplishments: The Science Advisors (SA) are a conduit between the Fleet Forces, Office of Naval Research (ONR) and the Naval Research Establishments (NRE). Specific Fleet:			
SA, Navy Warfare Development Command (NWDC), provided technical support for the generation and development of advanced warfighting concepts leading to innovative new strategies to address Navy challenges and opportunities.			
SA, Commander Seventh Fleet (C7F), engaged with the NREs as follows: briefed senior level audiences, participated in discussions on relevant technology and Science and Technology (S&T) gaps in the areas of Information Operations (IO), Electronic Warfare, Computer Network Operations, Information Analysis & Communications, Survivability & Self Defense, Strike, and Anti-Submarine Warfare in the context of the Navy's 13 S&T Focus Areas and Sea Power 21 Pillars.			

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DATE: February 2012

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0205658N: Navy Science Assistance Progr	PROJEC 0834: <i>LAI</i>	T B Fit Suppor	t	
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013
SA, Commander US Naval Forces Central Command (C5F), provresponse of C5F warfighting capability gaps based on threats have readiness in the CENTCOM Area of Responsibility (AOR).	ided leadership and guidance towards identification and				
SA, Commander US Fleet Forces Command (USFFC), facilitated requirements influencing Naval and DoD RDT&E resourcing as fo Naval Component Commands in articulation of fleet requirements	llows: Led team from Operational Fleets, Force Provide				
SA, Commander Submarine Forces (CSF), established a team baneeds to achieve warfighting capabilities through the USE Chief T Evaluated, refined, and supported FY-13 Future Naval Capabilitie four Enabling Capability (EC)s were approved for new start: Towesensors, Alternate Anti-Surface Warfare Torpedo Homing and Tal Mission, Personnel, and Systems.					
SA, Commander Naval Surface Forces (SURFOR), provided cont Systems Command senior leaders in the creation, modification, a (ASW) and Integrated Air and Missile Defense (IAMD) gaps used	nd promulgation of Total Ownership Cost, Anti-Surface				
SA, Commander Third Fleet (C3F), led the demonstration plannin Demonstration that was tasked by the CNO. Also, completed a si NRE. As a result of the survey, developed a Future Capabilities National This IO demonstration will commence again this year to improve and tactics.					
SA, US Naval Forces Europe/Africa, (C6F), managed the deployn a rules based information technology to aid C6F in assessing the enduring technical exchange with the NATO Undersea Research greater interoperability and the transition of NURC technologies in	risk of commercial shipping within the AOR. Codified an Center (NURC) under a memorandum of agreement to	facilitate			
SA, Commanding General 1st Marine Expeditionary Force and Masupported deployed force requirements definition and innovation in		,			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0205658N: Navy Science Assistance Progr	PROJEC 0834: <i>LAE</i>	T Support	t	
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2011	FY 2012	FY 2013
SA, CNO Strategic Studies Group (SSG), fully partnered in the goof the future. Along with the Technology Fellows, the SA develop invited lecturers to address the SSG, developed an engaging and Exploration Travel for all SSG members.	eneration of revolutionary warfighting concepts for the Need the SSG Fall Program which included: Researched a	nd			
SA, Commander, US Marine Corps Forces Command (MARFOR with ONR Global SA at I MEF, II MEF, III MEF, and Marine Force Corps (USMC) operating force's voice on S&T matters.					
SA, Commander, Naval Air Forces (NAVAIRFOR), continued the Organization (NATO) Sea Sparrow Missile, Electro-Optical/Infrare H.W. Bush (CVN-77) and USS George Washington (CVN 73), and detection and identification of small boat threats to aircraft carrier	ed (EO/IR) upgrade on 2 Aircraft Carriers (CVNs), USS (nd one Amphibious Assault Vessel, USS Bataan (LHD-5)	George			
SA, III Marine Expeditionary Force (III MEF), worked with other U for the Marine Corps in Operational Science Technology and Expand Technology Review Committee (STC) at III MEF that will be provide oversight, guidance and ownership of S&T work at III ME	perimentation (OSTE). Designed and proposed a new Soused to inform the new OSTE OAG of MEF requirement	cience			
SA, CNO Executive Panel (CEP), as a member of CNO's person subcommittee meetings, plenary sessions and intelligence briefin subcommittees; (1) Resource Sponsorship, and (2) Technical Div	ngs. Performed as Principal Staff representative for two 0				
SA, Commanding General II Marine Expeditionary Force (II MEF FWD, briefing the Operations Officers and S&T Officers on emergeduring II MEF FWD rotation.					
SA, Commander, USMC, Pacific (MARFORPAC), focused on adby engaging with the joint S&T community both within the Pacific installation of Micro Auto Gasification System (MAGS), a small scenvironments.	and across DoD. Proposed, secured funding, and starte	ed			
SA, Commander Pacific Fleet (PACFLT), improved capabilities a mission areas including Maritime Security Operations, ASW and					

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0205658N: Navy Science Assistance Progr	PROJEC 0834: <i>LAE</i>	T 3 Fit Suppor	t	
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013
S&T, Acquisition, Industry, University, Other Government Agencie identify possible long-term solutions and collaborative efforts.	•	aps and			
SA, Naval Supply Systems Command (NAVSUP), is the Research and technology facilitator and Naval Research Enterprise conduit to R&D Working Group and Executive Steering Group (ESG) to gene NAVSUP Commander's Guidance, which helps direct R&D investr	for NAVSUP. Worked with the NAVSUP Enterprise and erate NAVSUP's annual list of capability gaps from the c	logistics			
SA, US Pacific Command (USPACOM), developed a Command-waynchronize S&T engagement with the USPACOM Theater Campinform Service RDT&E enterprise of Command war fighting shortfated S&T Integrated Priority List.	aign Plan. Established and executed multi-phase action				
SA, Chief of Naval Operations Code N81 (OPNAV N81), focused of products to the broader S&T community resulting in an improved in the ONR internal strategy cell membership for the updated Navy S	nfluence of requirements pull on S&T. The N81 SA was				
SA, Commander Submarine Forces Pacific Fleet (SUBPAC), conti (UAS, aka SOTHOC, Submarine Over-The-Horizon Organic Capa occurred in the summer of 2010, followed by a second developme UAS for over-the-horizon targeting of High-Valued Units in a multi-	bility). A successful tactical development exercise with int exercise to evaluate counter detection. These exerci	the UAS			
SA, Naval Mine and Anti-Submarine Warfare Command (NMAWC The SA is directly responsible to the Commander for drafting/modi sub IPT members, incorporating modifications, and providing the f Sea Shield IPT.	fying capability gaps and EC ideas, vetting them throug	h the			
SA, OPNAV N2/N6 advised the Deputy CNO for Information Domi Navy S&T programs that addressed information dominance; member of the FORCEnet Integrated Product Team (IPT) Technology Demonstration (JCTD) Team that reviewed technology	ber of FNC Technical Oversight Group (TOG) Working I nine FNC Pillars (i.e. FORCEnet, Sea Strike, Shield, a), Rapid Technology Transition (RTT) Team, and Joint (Group nd			
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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

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PE 0205658N: Navy Science Assistance Progr

0834: LAB Fit Support

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
SA, Commander, Navy Expeditionary Combat Command (NECC), updated the NECC S&T Strategy Plan as the warfighters demand signal to the Navy Expeditionary Combat Enterprise (NECE). Conducted technical demonstrations and the Operational Demonstration of the Riverine and Intercoastal Operations (RIO) JCTD unattended sensor system.			
SA, Commander, C10F, C10F, Serve as the senior representative/liaison in all interactions with S&T oriented government, military, academia, and industry organizations. Function as the "FORCEnet" Operational Agent S&T representative, Naval Space Operations S&T representative and Service Cryptologic Component Command S&T representative in the signals intelligence community.			
SA, Commander Second Fleet (C2F), led the planning efforts for two Sea Trial sponsored events. Coordinated the MK 38 Laser Weapons System initiative which demonstrates the capabilities of a ship based directed energy weapon system for self-defense against small watercraft, UAS and other threats.			
FY 2012 Plans: Continue all efforts of FY 2011.			
FY 2013 Plans: Continue all efforts of FY 2012.			
Accomplishments/Planned Programs Subtotals	3.503	1.957	3.450

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

N/A

D. Acquisition Strategy

Not Applicable.

E. Performance Metrics

Goal: Provide leadership with timely S&T advice on issues.

Metric: Monthly reports by Science Advisors to the Office of Naval Research and senior leadership within their assigned commands.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

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DATE: February 2012

PROJECT

0834: LAB Fit Support

Product Development	(\$ in Millio	ons)		FY 2	2012		2013 ise		2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Science Advisors	WR	Space and Naval Warfare Systems Center (SPAWAR):San Diego, CA	6.509	1.000	Mar 2012	1.854	Mar 2013	-		1.854	Continuing	Continuing	Continuing
Science Advisors	WR	Various:Various	6.879	0.957	Mar 2012	1.596	Mar 2013	-		1.596	Continuing	Continuing	Continuing
		Subtotal	13.388	1.957		3.450		-		3.450			
			Total Prior Years Cost	FY 2	2012		2013 ise		2013 CO	FY 2013 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	13.388	1.957		3.450		-		3.450			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

APPROPRIATION/BUDGET ACTIVITY R-111EM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

PE 0205658N: Navy Science Assistance Progr
0834: LAB Fit Support

FY 2011 FY 2013 FY 2015 FY 2016 FY 2017 FY 2012 FY 2014 3 4 3 2 3 1 2 4 1 Proj 0834

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Naval Science Advisor Program

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

DATE: February 2012

R-1 ITEM NOMENCLATURE
PE 0205658N: Navy Science Assistance Progr

0834: LAB Fit Support

Schedule Details

	St	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 0834					
Naval Science Advisor Program	1	2011	4	2017	

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