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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				PE 0203761N: <i>Rapid Technology Transition (RTT)</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	55.535	35.120	30.021	-	30.021	37.159	36.517	37.523	39.792	Continuing	Continuing
3126: <i>Rapid Technology Transition (RTT)</i>	39.479	18.848	18.740	-	18.740	22.076	22.096	22.618	23.033	Continuing	Continuing
3173: <i>Technology Insertion Program for Savings (TIPS)</i>	-	8.259	8.038	-	8.038	9.403	9.427	9.628	9.805	Continuing	Continuing
3174: <i>Rapid Development and Deployment (RDD)</i>	16.056	8.013	3.243	-	3.243	5.680	4.994	5.277	6.954	Continuing	Continuing

A. Mission Description and Budget Item Justification

RTT programs transition technology from any source, including those not traditionally associated with defense technology. An effective and robust integration of commercial and military technologies can reduce costs and improve naval capabilities by keeping pace with the fast moving changes in technologies and operational needs. The RTT program is comprised of three elements: The Rapid Technology Transition (RTT) program, the Technology Insertion Program for Savings (TIPS), and the Rapid Development and Deployment (RDD) program. The RTT and TIPS programs are structured to bring transition deals to closure quickly, and to provide execution year funding for a rapid start, bridging the gap until the program of record can fund the completion of the technology insertion. The RDD program is structured to quickly develop a prototype solution that will be deployed in theater for Naval forces engaged in Overseas Contingency Operations (OCO).

The mission of the RTT program is to increase the rate that new, innovative, and potentially disruptive technologies are inserted into DON acquisition programs and the hands of the warfighter.

The mission of the TIPS program is to increase the rate that new cutting edge technologies are inserted into DON acquisition programs in order to significantly reduce operations and maintenance support costs.

The RDD program provides for the rapid development and fielding of prototype solutions to meet urgent operational needs. The RDD process applies when existing DON processes cannot meet urgent operational needs. Overseas Contingency Operations (OCO) have generated rapidly evolving military needs that require responsive materiel solutions.

Rapid transition opportunities occur when a sufficiently mature technology is identified that can meet a particular need on a timetable which matches that of an acquisition program, and is supported by a business case which justifies the associated cost and schedule risk. The combination of circumstances which create such opportunities can appear, and disappear, well inside the Program Objectives Memorandum (POM) cycle. These programs are designed to be proactive in identifying opportunities and to work with resource sponsors, fleet and force users, and Program Managers (PMs) in constructing viable technology transition deals one at a time.

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BA 7: <i>Operational Systems Development</i>	

To ensure the widest possible awareness of emergent commercial technology opportunities, these programs interact with the industry and the venture capital community. These programs coordinate closely with Program Executive Offices (PEOs) and Program Managers (PMs) to maintain awareness of insertion opportunities. Utilizing existing authorities, RTT applies execution year funds where necessary to "jump-start" transitions so they can be inserted and validated by Sea Trial experiments leading directly to deployment and/or demonstrations of high risk/high payoff technologies. This Program Element is the only Navy program that addresses current, urgent requirements that are required by the fleet within a 18-24 month period. As such, planning and execution are accomplished within the same fiscal year, which causes a non-traditional financial execution profile for the program. The program therefore does not meet traditional execution benchmarks.

In FY 2011, funding for the TIPS activity within the RTT R&D project (3126) was realigned into its own R&D project number - 3173 - Technology Insertion Program for Savings.

B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	38.963	35.120	41.863	-	41.863
Current President's Budget	55.535	35.120	30.021	-	30.021
Total Adjustments	16.572	-	-11.842	-	-11.842
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	8.914	-			
• SBIR/STTR Transfer	-1.175	-			
• Program Adjustments	8.960	-	-11.145	-	-11.145
• Section 219 Reprogramming	-0.126	-	-	-	-
• Rate/Misc Adjustments	-	-	-0.697	-	-0.697
• Congressional General Reductions Adjustments	-0.001	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>				PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3126: <i>Rapid Technology Transition (RTT)</i>	39.479	18.848	18.740	-	18.740	22.076	22.096	22.618	23.033	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The mission of the RTT project is to increase the rate that new, innovative, and potentially disruptive technologies are inserted into DON acquisition programs and the hands of the warfighter. A key aspect of the RTT project is its charter to transition technology from any source, including those not traditionally associated with defense technology. An effective and robust integration of commercial and military technologies can reduce costs and improve naval capabilities by keeping pace with the fast moving changes in technologies and operational needs. The RTT project is structured to bring transition deals to closure quickly, and to provide execution year funding for a rapid start, bridging the gap until the program of record can fund the completion of the technology insertion.

In FY 2011, funding for the TIPS activity within the RTT R&D project (3126) was realigned into its own R&D project number - 3173 - Technology Insertion Program for Savings.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: RAPID TECHNOLOGY TRANSITION (RTT)	39.479	18.848	18.740
Articles:	0	0	0
Description: In FY 2011, funding for the TIPS activity within the RTT R&D project (3126) was realigned into its own R&D project number - 3173 - Technology Insertion Program for Savings.			
The decrease of funding from FY10 to FY11 reflects the functional transfer from project 3126 to project 3173.			
FY 2010 Accomplishments: Completed the following RTT projects: - Sparsely Populated Volumetric Array Acoustic Intercept Sensor Enhancing Submarine Passive Broadband Detection and Localization (SPVA PBB) - Littoral Combat Ship Mission Package Networked Tactical Training System (LCS NTTS) - Multistatic Active Capability Enhancements (MACE) - Non-Organic Over the Horizon Intelligence Surveillance and Reconnaissance (ISR). - Advanced Capability Integrated Trailer-ECU-Generator (ITEG)			
Terminated the following RTT projects:			

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
<ul style="list-style-type: none"> - IBM Cell Processor - Deployable Alternative Energy Module (DAEM) - Joint Mission Planning System-Expeditionary SPF (JMPS-E) <p>Continued the following RTT projects:</p> <ul style="list-style-type: none"> - Dismounted Infantry Simulation Interface (DISI) - Riverine Patrol Boat Protection - Expand 4/5 Synthetic Aperture Radar (SAR) Mapping - Physical Screening Protection - Multiple Wavelength LEP - Afloat Non-classified Network - Multi-Level Security Grid - Expedient MSR - Seal Delivery Vehicle (SDV) Diver Thermal Power System - Small Footprint Architecture - Extensible Link - eXtensible Common Operational Picture (XCOP) - P-3 Air Crew Tactical Team Trainer (PACT-3) - Theater ASW C3 Capability - F/A-18 Jet Noise Reduction - SeaLancet RT-1944/U Multi-Band Network Radio (MBNR) - T64 Prognosis/Diagnosis Based Management (PDBM) - Common Radio Room (CRR) <p>Initiated the following RTT projects:</p> <ul style="list-style-type: none"> - Sonar Automation - Integrated Laser Designator/Rangefinder for the M1A1 Tank - Continuous Active Sonar - Integration of WiMAX (802.16) Analysis and Planning Capability into the Systems Planning, Engineering and Evaluation Device (SPEED) POR - Littoral Surveillance Radar System Data Insertion into DCGS-N - Compact Low Frequency Active Off-Board Acoustic Source Expendable (COBASE) - Framework for Context Driven Speech Recognition and Processing (FCDSRP) - Spinel Submarine Periscope Headwindow 				

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
<p>- IRIS SHARK</p> <p>- Paragon - Information Operations Frequency Enhancement</p> <p>- Integrated Variable Message Format (VMF) in the E-2 Hawkeye.</p> <p>Continued the following TIPS projects:</p> <p>- Advanced Prognostics for Steam Catapults</p> <p>- Disruptive Micro Electro-Mechanical (MEM) Sensors for Aircraft Drive Lines.</p> <p>Completed the following TIPS projects:</p> <p>- Sprayable Dielectric Shields</p> <p>- Virtual Maintenance Performance Aid-Readiness Control Officer</p> <p>- Normal Fuel Oil Tanks</p> <p>- Hybrid High-bay Lighting (HHBL)</p> <p>- Retail Operations Management Enterprise Support (ROM-ES).</p> <p>Initiated the following TIPS projects:</p> <p>- Two Sided Camouflage Netting System</p> <p>- Lithium Battery Casualty Mitigation System (LBMCS)</p> <p>- Condition Based Maintenance - Enterprise Service Bus (CBM-ESB)</p> <p>- Intrinsically Safe Remote Tank Coatings Assessment Tool</p> <p>- Improved Detection Leveraging IWS-5 APB Software</p> <p>- Lightweight Affordable Low Maintenance Watertight Doors.</p> <p>FY 2011 Plans:</p> <p>Continue or Complete the following projects:</p> <p>- Physical Screening Protection</p> <p>- SeaLancet RT-1944/U Multi-Band Network Radio (MBNR)</p> <p>- Multiple Wavelength LEP</p> <p>- Afloat Non-classified Network</p> <p>- Multi-Level Security Grid</p> <p>- Expedient MSR</p> <p>- Seal Delivery Vehicle (SDV) Diver Thermal Power System</p> <p>- Small Footprint Architecture - Extensible Link</p>				

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
<ul style="list-style-type: none"> - eXtensible Common Operational Picture (XCOP) - Common Radio Room - P-3 Air Crew Tactical Team Trainer (PACT-3) - Theater ASW C3 Capability - F/A-18 Jet Noise Reduction - T64 Prognosis/Diagnosis Based Management (PDBM) - Integrated Laser Designator/Rangefinder for the M1A1 Tank - Continuous Active Sonar - Integration of WiMAX (802.16) Analysis and Planning Capability into the Systems Planning, Engineering and Evaluation Device (SPEED) POR - LSRS Data Insertion into DCGS-N - Compact Low Frequency Active Off-Board Acoustic Source Expendable (COBASE) - Sonar Automation - Framework for Context Driven Speech Recognition and Processing (FCDSRP) - Spinel Submarine Periscope Headwindow - IRIS SHARK - Paragon - Information Operations Frequency Enhancement - Integrated Variable Message Format (VMF) in the E-2 Hawkeye. <p>Initiate the following RTT projects:</p> <ul style="list-style-type: none"> - Universal Communications Controller - Light Weight Demolition Device - Multiple Weapon Simultaneous Reprogramming of JSOW-C and JSOW-C-1 - VVoSIP and Call Management for Afloat Networks - Unit-Level ISR&T for DCGS-N - Tactical Transfer Cross-Domain Solution Device - Calibration and Certification of MAC Sensors for Intelligence Data Collection - High Gain Broadband (Graywing) Shipboard IO Antenna - Image Based Navigation for Tomahawk Block IV Cruise Missiles (ImageNav) - Expeditionary Power Management and Distribution (EPMD) <p>FY 2012 Plans:</p> <ul style="list-style-type: none"> - Continue or Complete efforts from FY 2011. 			

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
- Initiate 6-11 new RTT projects to improve naval warfighter capabilities.			
Accomplishments/Planned Programs Subtotals	39.479	18.848	18.740

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

N/A

D. Acquisition Strategy

Utilize existing authorities on a case-specific basis to exploit rapid technology transition opportunities.

E. Performance Metrics

The RTT program will, at a minimum, initiate 10-16 new deals a year that provide for new, innovative, and potentially disruptive technology being inserted into DON acquisition programs. The RTT deals will have a greater than 80% success rate of insertion and fielding of technology into DON warfighting systems.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
COBASE	C/CPFF	SAIC:Subs: Alturdyne & USSI San Diego	1.000	1.000	Oct 2010	-		-		-	0.000	2.000	
Integrated Variable Message Format (VMF) in the E-2 Hawkeye	C/CPFF	Wyle Laboratories, Inc:NAWCAD Patuxent River, MD	1.250	0.750	Oct 2010	-		-		-	0.000	2.000	
Integrated Laser Designator/ Rangefinder for the M1A1 Tank	C/FFP	Night Vision and Electronics Sensors Directorate/N:10221 Burbek Road, Ft Belvoir, VA 22060	1.450	0.400	Oct 2010	-		-		-	0.000	1.850	
Continuous Active Sonar	C/CPFF	Alion Science:240 Oral School Road, Mystic, CT	1.500	0.500	Oct 2010	-		-		-	0.000	2.000	
Integration of WiMAX (802.16d/e) Analysis and Planning Capabilities in SPEED	Various	Various:Various	1.250	0.170	Feb 2011	-		-		-	0.000	1.420	
LSRS Data Insertion into DCGS-N	Various	BAE Systems/Integrity Applications/Space Dynamics:CA/UT	1.625	0.375	Oct 2010	-		-		-	0.000	2.000	
Sonar Automation	Various	Various:Various	1.500	0.500	Apr 2011	-		-		-	0.000	2.000	
Framework for Context Driven Speech Recognition and Processing (FCDSRP)	Allot	NAWCTSD:Not Specified	0.490	0.240	Oct 2010	-		-		-	0.000	0.730	
Spinel Submarine Periscope Headwindow	C/CPFF	Global Strategies Group:Crofton, MD	0.500	0.450	Oct 2010	-		-		-	0.000	0.950	
IRIS SHARK	Various	NTTI/NSWC/SAIC/ PMAT/NGC/SDL/ PMS-495/SDL Logan:CA/FL/DC/VA/ UT	1.470	0.490	Oct 2010	-		-		-	0.000	1.960	
Paragon - Information Operations Frequency Enhancement	Various	Argon ST:Fairfax VA	1.200	0.800	Oct 2010	-		-		-	0.000	2.000	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
T64 Prognosis/Diagnosis Based Management	Various	AIR 4.4:NAVAIR	0.200	1.300	Oct 2010	-		-		-	0.000	1.500	
Universal Communications Controller	SS/CPFF	Fairfax:VA	-	1.246	Dec 2010	0.624	Oct 2011	-		0.624	0.000	1.870	
Light Weight Demolition Device	Various	Duke Pro, Inc.:Asheville, NC	-	0.500	Nov 2010	-		-		-	0.000	0.500	
Multiple Weapon Simultaneous Reprogramming of JSOW-C and JSOW-C-1	Various	Various:Various	-	0.730	May 2011	0.800	Oct 2011	-		0.800	0.000	1.530	
VVoSIP and Call Management for Afloat Networks	Various	Various:Various	-	1.000	May 2011	0.925	Oct 2011	-		0.925	0.000	1.925	
Unit-Level ISR&T for DCGS-N	C/CPFF	NMSO/BAE Systems:San Diego, CA	-	1.000	Dec 2010	0.500	Oct 2011	-		0.500	0.000	1.500	
Tactical Transfer Cross-Domain Solution Device	Various	Penn State Applied Research/NRL:PA/DC	-	1.000	Dec 2010	0.400	Oct 2011	-		0.400	0.000	1.400	
Calibration and Certification of MAC Sensors for Intelligence Data Collection	C/CPFF	ENSCO, Inc./Lockheed Martin/NAWC/ENSCO, Inc.:NY/VA/MD	-	0.862	Dec 2010	0.706	Oct 2011	-		0.706	0.000	1.568	
High Gain Broadband (Graywing) Shipboard IO Antenna	Various	SSC - Pacific Code 56380:San Diego, CA	-	0.750	Dec 2010	1.250	Oct 2011	-		1.250	0.000	2.000	
Image Based Navigation for Tomahawk Block IV Cruise Missiles (ImageNav)	Various	Various:Various	-	0.750	May 2011	1.250	Oct 2011	-		1.250	0.000	2.000	
Expeditionary Power Management and Distribution (EPMD)	Various	Various:Various	-	0.700	May 2011	0.700	Oct 2011	-		0.700	0.000	1.400	
Future Technology Insertion Opportunities	Various	Various:Various	-	-		8.532	Dec 2011	-		8.532	0.000	8.532	
Subtotal			13.435	15.513		15.687		-		15.687	0.000	44.635	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
Proj 3126																												
Project 3126: FY10_Oversee Execution of Deals	████████████████																											
Project 3126: FY12 Call for Proposals					████																							
Project 3126: FY12 Proposals Recieved					████																							
Project 3126: FY12 Initial Evaluation					████																							
Project 3126: FY12 Red Team Reviews					████																							
Project 3126: FY12 ERG WG - conducts final reviews and ranking					████																							
Project 3126: FY12 ERG - makes selection for upcoming FY									████																			
Project 3126: FY12 MOAs - drafted, Staffed and approved									████																			
Project 3126: Begin Selected Projects									████																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3126: <i>Rapid Technology Transition (RTT)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3126				
Project 3126: FY10_Oversee Execution of Deals	1	2010	4	2011
Project 3126: FY12 Call for Proposals	2	2011	2	2011
Project 3126: FY12 Proposals Recieved	3	2011	3	2011
Project 3126: FY12 Initial Evaluation	3	2011	3	2011
Project 3126: FY12 Red Team Reviews	3	2011	3	2011
Project 3126: FY12 ERG WG - conducts final reviews and ranking	3	2011	3	2011
Project 3126: FY12 ERG - makes selection for upcoming FY	4	2011	4	2011
Project 3126: FY12 MOAs - drafted, Staffed and approved	4	2011	4	2011
Project 3126: Begin Selected Projects	1	2012	1	2012

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>				PROJECT 3173: <i>Technology Insertion Program for Savings (TIPS)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3173: <i>Technology Insertion Program for Savings (TIPS)</i>	-	8.259	8.038	-	8.038	9.403	9.427	9.628	9.805	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The mission of the Technology Insertion Program for Savings (TIPS) is to increase the rate that new cutting edge technologies are inserted into DON acquisition programs in order to significantly reduce operations and maintenance support costs. The program is structured to rapidly transition applicable commercial off-the-shelf solutions and late-stage development technologies from any source to meet an immediate need. TIPS provides execution year funding for a rapid start, bridging the gap until the program of record can fund the completion of the technology insertion.

In FY 2011, funding for the TIPS activity within the RTT R&D project (3126) was realigned into its own R&D project number - 3173 - Technology Insertion Program for Savings.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: TECHNOLOGY INSERTION PROGRAM FOR SAVINGS (TIPS)	-	8.259	8.038
Articles:		0	0
Description: In FY 2011, funding for the TIPS activity within the RTT R&D project (3126) was realigned into its own R&D project number - 3173 - Technology Insertion Program for Savings.			
FY 2011 Plans:			
-Continue or complete the following TIPS projects:			
- Two Sided Camouflage Netting System;			
- Lithium Battery Casualty Mitigation System (LBMCS)			
- Condition Based Maintenance - Enterprise Service Bus (CBM-ESB)			
- Intrinsically Safe Remote Tank Coatings Assessment Tool			
- Improved Detection Leveraging IWS-5 APB Software; Advanced Prognostics for Steam Catapults Water Brake Monitoring			
- Disruptive MEM Sensors for Monitoring Aircraft Drive Lines			
- Lightweight Affordable Low Maintenance Watertight Doors.			
Initiate the following TIPS projects:			
- Tactical Environment & Role-player Station (TERS)			
- Naval Advanced Amorphous Coating (NAAC) for High Wear Decks			

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3173: <i>Technology Insertion Program for Savings (TIPS)</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
<ul style="list-style-type: none"> - H-1 Combining Gearbox Chaffing Repair via Low Pressure Cold Spray - ZnBr Flow Battery Energy Storage System - Transportation Exploitation Tool (TET) <p><i>FY 2012 Plans:</i></p> <ul style="list-style-type: none"> - Continue or Complete efforts from FY 2011. - Initiate 4-6 new TIPS projects to improve naval warfighter capabilities. 			
Accomplishments/Planned Programs Subtotals	-	8.259	8.038

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

N/A

D. Acquisition Strategy

Utilize existing authorities on a case-specific basis to exploit rapid technology transition opportunities.

E. Performance Metrics

The TIPS programs will select 4-7 new projects for execution per fiscal year.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			Target Value of Contract
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	
Two-Sided Multi-Spectral Camo Netting System	Various	Various:MI/NC/MD/NM/VA	1.500	-	Oct 2010	-		-		-	0.000	1.500	
Condition Based Maintenance Service Bus	Various	Delphinus/General Dynamics:Eddystone/Philadelphia, PA	1.200	0.800	Oct 2010	-		-		-	0.000	2.000	
Intrinsically Safe Remote Tank Coating Assessment Tool	Various	EXCET/INUKTUN, IVC,NRL, Nainamo:BC/NJ/NRL	1.300	0.600	Oct 2010	-		-		-	0.000	1.900	
Improved Detections Leveraging IWS-5 APB Software	Various	Lockheed Martin/JHU/APL/SSC Pacific:CA/MD/VA	1.500	0.500	Oct 2010	-		-		-	0.000	2.000	
Light Weight Affordable Low Maintenance Watertight Door	C/CPFF	NSWC/ARL PSU:PA/PSU	1.400	0.592	Oct 2010	-		-		-	0.000	1.992	
Lithium Battery Casualty Mitigation System (LBMCS)	C/CPFF	Hughes Associates/Havlovick Engineering Services:Baltimore, MD/Falls, ID	1.475	0.500	Oct 2010	-		-		-	0.000	1.975	
Advanced Prognostic Steam Catapults	Various	NAVAVIR:Lakehurst, NJ	0.800	0.600	Oct 2010	-		-		-	0.000	1.400	
Tactical Environment & Role-player Station (TERS)	C/BPA	NAWCTSD:Orlando, FL	-	0.700	Dec 2010	0.900	Oct 2011	-		0.900	0.000	1.600	
Naval Advanced Amorphous Coating (NAAC) for High Wear Decks	Various	EXCET/NRL:NRL	-	0.500	Dec 2010	0.150	Oct 2011	-		0.150	0.000	0.650	
H-1 Combining Gearbox Chaffing Repair via Low Pressure Cold Spray	Various	Various:Various	-	0.800	Dec 2010	1.000	Oct 2011	-		1.000	0.000	1.800	
ZnBr Flow Battery Energy Storage System	Various	NAVFAC ESC:Port Hueneme	-	1.492	Dec 2010	0.480	Oct 2011	-		0.480	0.000	1.972	
Transportation Exploitation Tool (TET)	C/CPFF	Alion Science and Technology:VA	-	0.700	Dec 2010	1.300	Oct 2011	-		1.300	0.000	2.000	
Future Technology Insertion Opportunities	Various	Various:Various	-	-		3.858	Dec 2011	-		3.858	0.000	3.858	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3173: <i>Technology Insertion Program for Savings (TIPS)</i>
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
Proj 3173																												
Project 3173: FY10_Oversee Execution of Deals																												
Project 3173: FY12 Call for Proposals																												
Project 3173: FY12 Proposals Recieved																												
Project 3173: FY12 Initial Evaluation																												
Project 3173: FY12 Red Team Reviews																												
Project 3173: FY12 ERG WG conducts final reviews and ranking																												
Project 3173: FY12 ERG makes selection for upcoming FY																												
Project 3173: FY12 MOAs drafted, Staffed and approved																												
Project 3173: Begin Selected Projects																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3173: <i>Technology Insertion Program for Savings (TIPS)</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3173				
Project 3173: FY10_Oversee Execution of Deals	1	2010	4	2011
Project 3173: FY12 Call for Proposals	2	2011	2	2011
Project 3173: FY12 Proposals Recieved	3	2011	3	2011
Project 3173: FY12 Initial Evaluation	3	2011	3	2011
Project 3173: FY12 Red Team Reviews	3	2011	3	2011
Project 3173: FY12 ERG WG conducts final reviews and ranking	3	2011	3	2011
Project 3173: FY12 ERG makes selection for upcoming FY	4	2011	4	2011
Project 3173: FY12 MOAs drafted, Staffed and approved	4	2011	4	2011
Project 3173: Begin Selected Projects	1	2012	1	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3174: <i>Rapid Development and Deployment (RDD)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3174: <i>Rapid Development and Deployment (RDD)</i>	16.056	8.013	3.243	-	3.243	5.680	4.994	5.277	6.954	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Rapid Development and Deployment (RDD) provides an environment and process for rapid development and fielding of prototype solutions to meet urgent operational needs. The RDD process applies when existing DON processes cannot meet urgent operational needs. Overseas Contingency Operations (OCO) have generated rapidly evolving military needs that require responsive materiel solutions. RDD is a fast track process for application, by exception, to Navy and USMC capability needs and materiel solutions that meet the following criteria: (1) Need identified during active or incipient combat or contingency operation, or (2) Need derived from combat survivability of the warfighter or impacts the success of the mission. RDD initiates projects to deliver prototype solutions that are not readily available off-the-shelf and that can be developed, integrated with other components and systems (as necessary), tested, and fielded within 270 days of need approval. RDD provides startup funds to initiate projects that meet the above criteria while other funding is made available within the year of execution. Rapid Development and Deployment (RDD) provides an environment and process for rapid development and fielding of prototype solutions to meet urgent operational needs.

FY 2010 to FY 2011 funding reduction is due to the completion of the OCO working completing and reduction of funding due to higher Navy priorities. FY 2011 to FY 2012 funding reduction is due to realignment of funds for higher priorities.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: RAPID DEVELOPMENT AND DEPLOYMENT (RDD)	16.056	8.013	3.243
Articles:	0	0	0
FY 2010 Accomplishments:			
- Delivered Loud Hailer Capability to Fleet.			
- Delivered Small Unmanned Frequency Receiver (SURFR) capability to Special Warfare Community.			
- Initiated USMC Fire Suppression project			
- Initiated new RDD projects as needed to support OCO urgent needs.			
FY 2011 Plans:			
- Continue all FY 2010 efforts less those noted as planned for completion.			
- Initiate approximately 3-4 new RDD projects in support of OCO.			
FY 2012 Plans:			
- Continue all FY 2011 efforts less those noted as planned for completion.			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3174: <i>Rapid Development and Deployment (RDD)</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
- Initiate approximately 3-4 new RDD projects in support of OCO.			
Accomplishments/Planned Programs Subtotals	16.056	8.013	3.243

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

N/A

D. Acquisition Strategy

For RDD requirements that meet the selection criteria, the virtual Rapid Development and Deployment Office (RDDO) is used to initiate projects. The RDDO is a virtual organization operating across Naval Laboratories and Warfare Centers, with interfaces and/or contractual agreements with other Military Services, Industry, Academia and the National Laboratory community. The RDDO will bring together, on demand, multi-disciplinary teams to develop and deliver rapid, innovative solutions. The RDDO will maintain visibility of available and emerging technologies from all sources that may serve as enablers to the success of RDD initiatives. The RDDO will review Urgent Combat Needs, identify and evaluate alternative solutions and provide recommendations. The RDDO will include a rapid acquisition channel, consistent with all applicable procurement regulations, for access to industry products and services as needed. For approved projects, the RDDO will select appropriate technologies, and develop, integrate, test, and deliver fieldable prototypes with the essential logistics for use by the warfighter. End users will be involved throughout the process as part of the virtual team.

E. Performance Metrics

The RDD program goal is to respond to urgent operational needs within 30 days and provide for rapid development and fielding of prototype solutions within 270 - 360 days.

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3174: <i>Rapid Development and Deployment (RDD)</i>

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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

Proj 3174	
Project 3174: TBD - Execute new FY 10 RDD Efforts	■
Project 3174: Deliver Ship Disable	■
Project 3174: TBD - Execute new FY 11 RDD Efforts	■

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	PROJECT 3174: <i>Rapid Development and Deployment (RDD)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3174				
Project 3174: TBD - Execute new FY 10 RDD Efforts	1	2010	1	2010
Project 3174: Deliver Ship Disable	3	2010	3	2010
Project 3174: TBD - Execute new FY 11 RDD Efforts	1	2011	1	2011