

# UNCLASSIFIED

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Navy **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	33.948	30.005	25.566	-	25.566	22.656	23.287	25.463	26.042	Continuing	Continuing
3126: <i>Rapid Technology Transition (RTT)</i>	18.222	18.724	12.548	-	12.548	8.845	8.328	7.543	7.090	Continuing	Continuing
3173: <i>Technology Insertion Program for Savings (TIPS)</i>	7.983	8.038	12.772	-	12.772	13.563	14.718	17.681	18.714	Continuing	Continuing
3174: <i>Rapid Development and Deployment (RDD)</i>	7.743	3.243	0.246	-	0.246	0.248	0.241	0.239	0.238	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 Department of Navy (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.

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2013 Navy	<b>DATE:</b> February 2012
---	----------------------------

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>
---	---

To ensure the widest possible awareness of emergent commercial technology opportunities, these programs interact with the industry and 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.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Previous President's Budget	35.120	30.021	37.159	-	37.159
Current President's Budget	33.948	30.005	25.566	-	25.566
Total Adjustments	-1.172	-0.016	-11.593	-	-11.593
• Congressional General Reductions	-	-0.016			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.964	-			
• Program Adjustments	-	-	-11.562	-	-11.562
• Rate/Misc Adjustments	-	-	-0.031	-	-0.031
• Congressional General Reductions	-0.208	-	-	-	-
Adjustments					

**Change Summary Explanation**

Technical: Not applicable.

Schedule: Not applicable.

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				PE 0203761N: Rapid Technology Transition (RTT)				3126: Rapid Technology Transition (RTT)			
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
3126: Rapid Technology Transition (RTT)	18.222	18.724	12.548	-	12.548	8.845	8.328	7.543	7.090	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.

Funding reduction from FY 2012 to FY 2013 reflect realignment of funding to higher priority Naval needs.

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

	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> RAPID TECHNOLOGY TRANSITION (RTT)	18.222	18.724	12.548
<b>Articles:</b>	0	0	0
<b>FY 2011 Accomplishments:</b> Continued the following RTT projects: - SeaLancet RT-1944/U Multi-Band Network Radio (MBNR) - Multiple Wavelength LEP - Multi-Level Security Grid - Seal Delivery Vehicle (SDV) Diver Thermal Power System - eXtensible Common Operational Picture (XCOP) - 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)			

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)	PROJECT 3126: Rapid Technology Transition (RTT)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
<div>- Sonar Automation</div> <div>- Framework for Context Driven Speech Recognition and Processing (FCDSRP)</div> <div>- Spinel Submarine Periscope Headwindow</div> <div>- IRIS SHARK</div> <div>- Paragon - Information Operations Frequency Enhancement</div> <div>- Integrated Variable Message Format (VMF) in the E-2 Hawkeye.</div> <div>Completed/Transitioned the following RTT projects:</div> <div>- Physical Screening Protection</div> <div>- Expedient MSR</div> <div>- Common Radio Room</div> <div>- P-3 Air Crew Tactical Team Trainer (PACT-3)</div> <div>- Afloat Non-classified Network</div> <div>- Small Footprint Architecture - Extensible Link</div> <div>Initiate the following RTT projects:</div> <div>- Secure Communications Controller</div> <div>- Light Weight Demolition Device</div> <div>- Multiple Weapon Simultaneous Reprogramming of JSOW-C and JSOW-C-1</div> <div>- VVoSIP and Call Management for Afloat Networks</div> <div>- Unit-Level ISR&amp;T for DCGS-N</div> <div>- Tactical Transfer Cross-Domain Solution Device</div> <div>- Calibration and Certification of MAC Sensors for Intelligence Data Collection</div> <div>- High Gain Broadband (Graywing) Shipboard IO Antenna</div> <div>- Expeditionary Power Management and Distribution (EPMD)</div> <div>FY 2012 Plans:</div> <div>- Continued efforts from FY 2011 unless otherwise noted as complete.</div> <div>- Initiate 6-11 new RTT projects to improve naval warfighter capabilities.</div> <div>FY 2013 Plans:</div> <div>- Continue efforts from FY 2012.</div> <div>- Initiate 3-5 new RTT projects to improve naval warfighter capabilities.</div>				
Accomplishments/Planned Programs Subtotals		18.222	18.724	12.548

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Navy		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3126: <i>Rapid Technology Transition (RTT)</i>
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>D. Acquisition Strategy</b> Utilize existing authorities on a case-specific basis to exploit rapid technology transition opportunities.		
<b>E. Performance Metrics</b> The RTT program will initiate new project each 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.		

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)				PROJECT 3126: Rapid Technology Transition (RTT)					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
COBASE	C/CPFF	SAIC:Subs: Alturdyne & USSI San Diego	2.000	-		-		-		-	0.000	2.000	
Integrated Variable Message Format (VMF) in the E-2 Hawkeye	C/CPFF	Wyle Laboratories, Inc:NAWCAD Patuxent River, MD	2.000	-		-		-		-	0.000	2.000	
Integrated Laser Designator/ Rangefinder for the M1A1 Tank	C/FFP	Night Vision and Electronics Sensors Directorate/N:10221 Burbeck Road, Ft Belvoir, VA 22060	1.850	-		-		-		-	0.000	1.850	
Continuous Active Sonar	C/CPFF	Alion Science:240 Oral School Road, Mystic, CT	2.000	-		-		-		-	0.000	2.000	
Integration of WiMAX (802.16d/e) Analysis and Planning Capabilities in SPEED	C/CPFF	NG Defense Space and Mission:San Diego, CA	1.420	-		-		-		-	0.000	1.420	
LSRS Data Insertion into DCGS-N	C/CPFF	BAE Systems/Integrity Applications/Space Dynamics:CA/UT	2.000	-		-		-		-	0.000	2.000	
Sonar Automation	C/CPFF	JHU/APL; UT VARL:Laurel, MD; Austin, TX	2.000	-		-		-		-	0.000	2.000	
Framework for Context Driven Speech Recognition and Processing (FCDSRP)	MIPR	NAWCTSD:Orlando, FL	0.730	-		-		-		-	0.000	0.730	
Spinel Submarine Periscope Headwindow	C/CPFF	Global Strategies Group:Crofton, MD	0.950	-		-		-		-	0.000	0.950	
IRIS SHARK	Various	NTTI/NSWC/SAIC/ PMAT/NGC/SDL/ PMS-495/SDL Logan:CA/FL/DC/VA/ UT	1.960	-		-		-		-	0.000	1.960	

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)				PROJECT 3126: Rapid Technology Transition (RTT)					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
Paragon - Information Operations Frequency Enhancement	C/CPFF	Argon ST:Fairfax VA	2.000	-		-		-		-	0.000	2.000	
T64 Prognosis/Diagnosis Based Management	C/IDIQ	AIR 4.4:NAVAIR	1.500	0.300	Oct 2011	-		-		-	0.000	1.800	
Secure Communications Controller	Various	Various:Varous	-	1.246	Dec 2011	0.624	Oct 2012	-		0.624	0.000	1.870	
Light Weight Demolition Device	C/CPFF	Duke Pro, Inc.:Asheville, NC	0.500	-		-		-		-	0.000	0.500	
Multiple Weapon Simultaneous Reprogramming of JSOW-C and JSOW-C-1	C/CPFF	RMS:Tucson, AZ	0.350	1.050	Oct 2011	-		-		-	0.000	1.400	
VVoSIP and Call Management for Afloat Networks	C/CPFF	XFEDS Inc; SSC LANT; Effecture; and SSC PAC:san Diego, CA; Charleston, SC; and Portsmouth, VA	1.375	0.625	Oct 2011	-		-		-	0.000	2.000	
Unit-Level ISR&T for DCGS-N	C/CPFF	NMSO/BAE Systems:San Diego, CA	1.200	0.300	Oct 2011	-		-		-	0.000	1.500	
Tactical Transfer Cross-Domain Solution Device	SS/CR	Penn State Applied Research/NRL:PA/DC	1.400	0.600	Oct 2011	-		-		-	0.000	2.000	
Calibration and Certification of MAC Sensors for Intelligence Data Collection	C/CPFF	ENSCO, Inc./Lockheed Martin/NAWC/ENSCO, Inc.:NY/VA/MD	0.952	0.606	Oct 2011	-		-		-	0.000	1.558	
High Gain Broadband (Graywing) Shipboard IO Antenna	WR	SSC - Pacific Code 56380:San Diego, CA	1.000	0.900	Oct 2011	-		-		-	0.000	1.900	
Expeditionary Power Management and Distribution (EPMD)	Various	Various:Various	0.600	0.600	Oct 2011	-		-		-	0.000	1.200	
Afloat Naval Tactical Chat	Various	Various:Various	0.500	1.200	Nov 2011	-		-		-	0.000	1.700	

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)				PROJECT 3126: Rapid Technology Transition (RTT)					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
Multistatic Active Coherent (MAC) Operation Interface	C/CPFF	ENSCO, Inc.; Lockheed Martin:Endicott, NY: Manassa	0.850	1.150	Oct 2011	-		-		-	0.000	2.000	
Future Technology Insertion Opportunities	Various	Various:Various	-	7.094	Dec 2011	8.724	Dec 2012	-		8.724	0.000	15.818	
Subtotal			29.137	15.671		9.348		-		9.348	0.000	54.156	
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
Services	C/CPFF	RESEARCH ANALYSIS & ENGINEERING, INC:ARLINGTON, VA	6.102	3.020	Oct 2011	3.200	Oct 2012	-		3.200	Continuing	Continuing	Continuing
Misc Services	Various	Various:Various	1.178	0.033	Oct 2011	-		-		-	Continuing	Continuing	Continuing
Subtotal			7.280	3.053		3.200		-		3.200			
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			36.417	18.724		12.548		-		12.548			
Remarks													



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; 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>

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Navy			<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3126: <i>Rapid Technology Transition (RTT)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3126</b>				
Project 3126: Oversee Execution of Projects	1	2012	4	2013
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 Fy12 Projects	1	2012	1	2012
Project 3126: FY13 Call for Proposals	2	2012	2	2012
Project 3126: FY13 Proposals Recieved	3	2012	3	2012
Project 3126: FY13 Initial Evaluation	3	2012	3	2012
Project 3126: FY13 Red Team Reviews	3	2012	3	2012
Project 3126: FY13 ERG WG - conducts final reviews and ranking	3	2012	3	2012
Project 3126: FY13 ERG - makes selection for upcoming FY	4	2012	4	2012
Project 3126: FY13 MOAs - drafted, Staffed and approved	4	2012	4	2012
Project 3126: Begin Selected FY 13 Projects	1	2013	1	2013

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)				PROJECT 3173: Technology Insertion Program for Savings (TIPS)			
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
3173: Technology Insertion Program for Savings (TIPS)	7.983	8.038	12.772	-	12.772	13.563	14.718	17.681	18.714	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.

Funding increase from FY 2012 to FY 2013 reflect emphasis on increasing operations and support cost savings projects.

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

	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> TECHNOLOGY INSERTION PROGRAM FOR SAVINGS (TIPS)	7.983	8.038	12.772
<b>Articles:</b>	0	0	0
<p><b>FY 2011 Accomplishments:</b></p> <p>Continued the following FY 2010 TIPS projects:</p> <ul style="list-style-type: none"> <li>- Two Sided Camouflage Netting System;</li> <li>- Lithium Battery Casualty Mitigation System (LBMCS)</li> <li>- Condition Based Maintenance - Enterprise Service Bus (CBM-ESB)</li> <li>- Intrinsically Safe Remote Tank Coatings Assessment Tool</li> <li>- Improved Detection Leveraging IWS-5 APB Software; Advanced Prognostics for Steam Catapults Water Brake Monitoring</li> <li>- Lightweight Affordable Low Maintenance Watertight Doors.</li> </ul> <p>Completed the following TIPS project:</p> <ul style="list-style-type: none"> <li>- Disruptive MEM Sensors for Monitoring Aircraft Drive Lines</li> </ul> <p>Initiated the following TIPS projects:</p> <ul style="list-style-type: none"> <li>- Tactical Environment &amp; Role-player Station (TERS)</li> <li>- Naval Advanced Amorphous Coating (NAAC) for High Wear Decks</li> <li>- H-1 Combining Gearbox Chaffing Repair via Low Pressure Cold Spray</li> <li>- ZnBr Flow Battery Energy Storage System</li> </ul>			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Navy		<b>DATE:</b> February 2012	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3173: <i>Technology Insertion Program for Savings (TIPS)</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2011</b>	<b>FY 2012</b>
- Transportation Exploitation Tool (TET)  <b>FY 2012 Plans:</b> - Continued all FY 2011 TIPS projects: - Initiate 4-6 new TIPS projects to improve naval warfighter capabilities.  <b>FY 2013 Plans:</b> - Continued all FY 2012 TIPS projects. - Initiate 6-8 new TIPS projects to improve naval warfighter capabilities.			
<b>Accomplishments/Planned Programs Subtotals</b>		7.983	8.038
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A			
<b>D. Acquisition Strategy</b> Utilize existing authorities on a case-specific basis to exploit rapid technology transition opportunities.			
<b>E. Performance Metrics</b> The TIPS program will initiate new projects each year that provide for new, innovative, and potentially disruptive technology being inserted into DON acquisition programs. The TIPS projects will have a greater than 80% success rate of insertion and fielding of technology into DON warfighting systems and/or operations and support cost efforts.			

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)				PROJECT 3173: Technology Insertion Program for Savings (TIPS)					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
Two-Sided Multi-Spectral Camo Netting System	Various	Various:MI/NC/MD/NM/VA	1.500	-		-		-		-	0.000	1.500	
Condition Based Maintenance Service Bus	C/IDIQ	Delphinus/General Dynamics:Eddystone/Philadelphia, PA	2.000	-		-		-		-	0.000	2.000	
Intrinsically Safe Remote Tank Coating Assessment Tool	C/CPFF	EXCET/INUKTUN, IVC,NRL, Nainamo:BC/NJ/NRL	1.900	-		-		-		-	0.000	1.900	
Improved Detections Leveraging IWS-5 APB Software	Various	Lockheed Martin/JHU/APL/SSC Pacific:CA/MD/VA	2.000	-		-		-		-	0.000	2.000	
Light Weight Affordable Low Maintenance Watertight Door	C/CPFF	NSWC/ARL PSU:PA/PSU	1.992	-		-		-		-	0.000	1.992	
Lithium Battery Casualty Mitigation System (LBMCS)	C/CPFF	Hughes Associates/Havlovick Engineering Services:Baltimore, MD/Falls, ID	1.975	-		-		-		-	0.000	1.975	
Tactical Environment & Role-player Station (TERS)	C/BPA	NAWCTSD:Orlando, FL	0.900	0.700	Oct 2011	-		-		-	0.000	1.600	
Naval Advanced Amorphous Coating (NAAC) for High Wear Decks	MIPR	EXCET/NRL:NRL	0.500	0.150	Oct 2011	-		-		-	0.000	0.650	
H-1 Combining Gearbox Chaffing Repair via Low Pressure Cold Spray	Various	Various:Various	1.100	0.700	Oct 2011	-		-		-	0.000	1.800	
ZnBr Flow Battery Energy Storage System	MIPR	NAVFAC ESC:Port Hueneme	1.664	0.308	Oct 2011	-		-		-	0.000	1.972	
Transportation Exploitation Tool (TET)	C/CPFF	Alion Science and Technology:VA	0.800	1.200	Oct 2011	-		-		-	0.000	2.000	
Future Technology Insertion Opportunities	Various	Various:Various	-	4.630	Dec 2011	12.417	Dec 2012	-		12.417	0.000	17.047	
Subtotal			16.331	7.688		12.417		-		12.417	0.000	36.436	

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2013 Navy											<b>DATE:</b> February 2012		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>				<b>PROJECT</b> 3173: <i>Technology Insertion Program for Savings (TIPS)</i>					

  

<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Various	Various	Various:Various	0.475	0.350	Oct 2011	0.355	Oct 2012	-		0.355	0.000	1.180	
<b>Subtotal</b>			0.475	0.350		0.355		-		0.355	0.000	1.180	

  

	<b>Total Prior Years Cost</b>	<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	16.806	8.038		12.772		-		12.772	0.000	37.616	

  

**Remarks**

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Navy			<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3173: <i>Technology Insertion Program for Savings (TIPS)</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
<b>Proj 3173</b>																												
Project 3173: Oversee Execution of Projects																												
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 FY 12 Projects																												
Project 3173: FY13 Call for Proposals																												
Project 3173: FY13 Proposals Recieved																												
Project 3173: FY13 Initial Evaluation																												
Project 3173: FY13 Red Team Reviews																												
Project 3173: FY13 ERG WG conducts final reviews and ranking																												
Project 3173: FY13 ERG makes selection for upcoming FY																												
Project 3173: FY13 MOAs drafted, Staffed and approved																												
Project 3173: Begin Selected FY 13 Projects																												

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Navy			<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3173: <i>Technology Insertion Program for Savings (TIPS)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3173</b>				
Project 3173: Oversee Execution of Projects	1	2012	4	2013
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 FY 12 Projects	1	2012	1	2012
Project 3173: FY13 Call for Proposals	2	2012	2	2012
Project 3173: FY13 Proposals Recieved	3	2012	3	2012
Project 3173: FY13 Initial Evaluation	3	2012	3	2012
Project 3173: FY13 Red Team Reviews	3	2011	3	2011
Project 3173: FY13 ERG WG conducts final reviews and ranking	3	2012	3	2012
Project 3173: FY13 ERG makes selection for upcoming FY	4	2012	4	2012
Project 3173: FY13 MOAs drafted, Staffed and approved	4	2012	4	2012
Project 3173: Begin Selected FY 13 Projects	1	2013	1	2013



**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203761N: Rapid Technology Transition (RTT)				PROJECT 3174: Rapid Development and Deployment (RDD)			
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
3174: Rapid Development and Deployment (RDD)	7.743	3.243	0.246	-	0.246	0.248	0.241	0.239	0.238	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 2012 to FY 2013 funding reduction is due to realignment of funds for higher priority Naval needs.

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

	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> RAPID DEVELOPMENT AND DEPLOYMENT (RDD)	7.743	3.243	0.246
<b>Articles:</b>	0	0	0
<b>FY 2011 Accomplishments:</b> - Continued United States Marine Corps Fire Suppression project - Continued new RDD projects as needed to support OCO urgent needs - Initiated approximately 3-4 new RDD projects in support of OCO.			
<b>FY 2012 Plans:</b> - Continued all FY 2011 efforts. - Initiated approximately 3-4 new RDD projects in support of OCO.			
<b>FY 2013 Plans:</b> - Continue all FY 2012 efforts. - Initiate approximately 1-2 new RDD projects in support of OCO.			
<b>Accomplishments/Planned Programs Subtotals</b>	7.743	3.243	0.246

# UNCLASSIFIED

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Navy		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3174: <i>Rapid Development and Deployment (RDD)</i>
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>D. Acquisition Strategy</b> 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.		
<b>E. Performance Metrics</b> 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.		

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				PE 0203761N: Rapid Technology Transition (RTT)				3174: Rapid Development and Deployment (RDD)					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
Loud Hailer	SS/CPAF	ACI Tech, NAWCAD:Philadelphia, Pax River	4.761	-		-		-		-	0.300	5.061	
Ship Disable	C/BPA	NSWC:Dahlgren, VA	2.883	-		-		-		-	0.000	2.883	
Robot Repeater	Various	Various:Various	1.500	-		-		-		-	0.000	1.500	
MV-22 Traffic Collision Avoidance System (TCAS)	C/CPFF	NAVAIR:Patuxent River, MD	2.950	0.600	Oct 2011	-		-		-	0.000	3.550	
TBD	Various	Various:Various	-	2.393	Mar 2012	-		-		-	Continuing	Continuing	Continuing
Subtotal			12.094	2.993		-		-		-			
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		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
Rapid Development and Deployment Office	WR	Various:Various	4.669	0.250	Oct 2011	0.246	Oct 2012	-		0.246	0.000	5.165	
Subtotal			4.669	0.250		0.246		-		0.246	0.000	5.165	
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			16.763	3.243		0.246		-		0.246			
Remarks													

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; 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>

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Navy		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203761N: <i>Rapid Technology Transition (RTT)</i>	<b>PROJECT</b> 3174: <i>Rapid Development and Deployment (RDD)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3174</b>				
Project 3174: Deliver Ship Disable	4	2011	4	2011
Project 3174: Execute Robot Repeater	1	2011	4	2011
Project 3174: Execute MV-22 TCAS	3	2011	4	2012
Project 3174: Execute FY 12 RDD Efforts	1	2012	3	2012