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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy	Date: March 2014
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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy</i> / BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604272N / <i>Tact Air Dir Infrared CM (TADIRCM)</i>							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	119.945	66.196	33.906	5.657	-	5.657	43.440	42.210	38.580	39.365	169.438	558.737
3302: <i>JATAS</i>	119.945	62.185	30.584	0.101	-	0.101	-	-	-	-	-	212.815
3304: <i>CIRCM</i>	0.000	4.011	3.322	5.556	-	5.556	43.440	42.210	38.580	39.365	169.438	345.922

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

NOTE: The Cost to Complete on Exhibit R2 and R2a for project unit 3304 should be \$186.548M. R-3 Exhibit reflects the correct Cost to Complete and Total Cost.

This element includes development of electronic warfare systems for the United States Navy and United States Marine Corps assault and strike aircraft. This includes the development and testing of advanced Infrared Countermeasures systems for emerging threats and emergency contingencies for Aircraft Self-Protection Equipement (ASE) Suite Integration. Realignment of project units from Tactical Aircraft Directed Infrared Countermeasures to Joint and Allied Threat Awareness System began in FY 2011. Common Infrared Countermeasures is a new start for the Navy with efforts that began in FY 2013.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it includes all efforts necessary to evaluate integrated technologies, representative models or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	73.934	37.227	38.092	-	38.092
Current President's Budget	66.196	33.906	5.657	-	5.657
Total Adjustments	-7.738	-3.321	-32.435	-	-32.435
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.321			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.790	-			
• Program Adjustments	-	-	-0.339	-	-0.339
• Rate/Misc Adjustments	-	-	-32.096	-	-32.096
• Congressional General Reductions Adjustments	-5.948	-	-	-	-

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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)	
<p><u>Change Summary Explanation</u></p> <p>Technical: Not Applicable.</p> <p>3302 JATAS Funding and Schedule: The program ends in FY 2014 in accordance with the Acquisition Decision Memorandum (ADM). Remaining funds in FY 2015 will be realigned to CIRCM (PU 3304). All tasks after FY 2014 were removed from the schedule profile.</p> <p>3304 CIRCM Schedule: A-Kit qualifications for CIRCM H-1 IOT&E changed from 3rd Qtr FY 2017 through 1st Qtr FY 2018 to 3rd Qtr FY 2018 through 1st Qtr FY 2019. B-Kit qualifications for CIRCM H-1 IOT&E changed from 2nd Qtr FY 2018 through 4th Qtr FY 2018 to 2nd Qtr FY 2018 through 4th Qtr FY 2019. All other tasks are on schedule and to be completed by the Army.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)				Project (Number/Name) 3302 / JATAS			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3302: JATAS	119.945	62.185	30.584	0.101	-	0.101	-	-	-	-	-	212.815
Quantity of RDT&E Articles	0.000	8.000	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The Joint and Allied Threat Awareness System (JATAS AN/AAR-59) is required to provide assault aircraft with a reliable and improved surface-to-air Infrared (IR) missile/Hostile Fire Indication (HFI) threat detection system. This capability must provide accurate and timely warning in all flight regimes, ambient light conditions, clutter backgrounds and weather conditions. It must be capable of providing countermeasure cueing to flares and/or a Directional Infrared Countermeasures (DIRCM). JATAS will enable assault Aircraft Survivability Equipment to detect and provide countermeasure cueing for current and emerging threats. Lead Department of the Navy platform for this capability is the MV-22. Project was previously funded by the Tactical Aircraft Directed Infrared Countermeasure (TADIRCM) project unit. JATAS has been designated an ACAT IC program.												
PU 3302 JATAS began in FY 2011. Prior year efforts (FY 2008 - FY 2010) were funded via PU 3040 TADIRCM.												
In FY 2012, JATAS has been assigned a system nomenclature of AN/AAR-59.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Joint and Allied Threat Awareness System (JATAS AN/AAR-59) EMD Articles: Description: Continue Engineering and Manufacturing Development (EMD) phase and provide required program support for EMD phase. FY 2013 Accomplishments: Conducted Government Test Readiness Review and Maintenance Demonstration. FY 2014 Plans: Begin Initial Test and Evaluation (IT&E). FY 2015 Plans: N/A									54.185	29.090	-	
									-	-	-	
Title: Joint and Allied Threat Awareness System (JATAS AN/AAR-59) Integration Articles:									8.000 8.000	1.494 -	0.101 -	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604272N / <i>Tact Air Dir Infrared CM (TADIRCM)</i>	Project (Number/Name) 3302 / JATAS	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Description: Provide platform integration support and JATAS A-kit development. FY 2013 Accomplishments: Completed development of A-kits to support Initial Test & Evaluation (IT&E) in FY14. FY 2014 Plans: Begin IT&E. FY 2015 Plans: The program ends in FY 2014 in accordance with the Acquisition Decision Memorandum (ADM). Remaining funds in FY 2015 will be realigned to CIRCM (PU 3304).			
Accomplishments/Planned Programs Subtotals		62.185	30.584
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
<p>A JATAS Capabilities Development Document (CDD) was approved in a Joint Requirements Oversight Council Memorandum dated 18 February 2011. Per the CDD, the JATAS will be an advanced Missile Warning System (MWS) designed to replace the legacy AN/AAR-47(V) MWS and increase the survivability of Marine Corps and Navy tilt-rotor and rotary wing aircraft against infrared threats. Additionally, the system will provide aircrew with warnings of laser-enabled weapon systems such as range finders, illuminators, and beam riders. The JATAS will interface with existing AN/ALE-47 Countermeasures Dispensing System, existing AN/APR-39 Radar Warning Receiver, existing Department of the Navy Large Aircraft Infrared Countermeasure system, and other compatible Directed Infrared Countermeasures systems as part of an integrated electronic countermeasures response to attacking infrared missiles. Additionally, the JATAS will provide Hostile Fire Indication (HFI) of small arms, rockets and other unguided threats and provide situational awareness in Visually Degraded Environments. Per the CDD, JATAS was developed into two increments. Increment I (Phase I) includes the missile and laser warning capabilities and cueing of countermeasure systems. Increment I (Phase II) adds HFI capability against Type I and III threats during the Engineering and Manufacturing Development phase of this program. Increment II will develop HFI capability against Type II threats. The Joint and Allied Threat Awareness System (JATAS) Engineering and Manufacturing Development (EMD) phase is being executed via a Fixed Price Incentive Firm (FPIF) contract over an approximate 48-month period of performance, with one FPIF option for the low-rate initial production lot and Firm-Fixed Price (FFP) options for the first seven full-rate production lots. A JATAS Technology Development phase contract was awarded in FY2009 and the EMD contract was awarded in 4th Quarter FY2011. 8 test articles were developed for various test events in FY 2013.</p>			
E. Performance Metrics			
JATAS EMD contract awarded in fourth quarter FY 2011.			

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604272N / <i>Tact Air Dir Infrared CM (TADIRCM)</i>	Project (Number/Name) 3302 / JATAS
JATAS Integrated Baseline Review (IBR) was approved 2nd Quarter FY 2012.		

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

1319 / 4

R-1 Program Element (Number/Name)

PE 0604272N / Tact Air Dir Infrared CM
(TADIRCM)

Project (Number/Name)

3302 / JATAS

JATAS	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Acquisition Milestones																												
Hardware Development																												
Software Development																												
Reviews		TRR Cont ■		TRR Govt ■																								
Production Milestones																												
Contract Awards																												
Deliveries																												
	EDM (1) ▼																											
	EDM (3) ▼			EDM (2) ▼	EDM.(2) ▼																							

2015PB - 0604272N - 3302

UNCLASSIFIED

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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost																												
3304: <i>CIRCM</i>	-	4.011	3.322	5.556	-	5.556	43.440	42.210	38.580	39.365	169.438	345.922																												
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-																														
<p># The FY 2015 OCO Request will be submitted at a later date.</p> <p>A. Mission Description and Budget Item Justification Common Infrared Countermeasures (CIRCM) was a new start for the Navy. This project includes the development, integration, and testing of a laser-based directed infrared countermeasure system for United States Navy and United States Marine Corps assault aircraft. This infrared countermeasure, when integrated with a missile warning detection system, will be capable of countering current and emerging IR threats. An USD (AT&L) Acquisition Decision Memorandum dated 15 April 09 designated the Army as the lead service for developing this capability for all rotary-wing, tilt-rotor, and small fixed-wing aircraft across the Department of Defense. It also designated the program as an ACAT ID Special Interest program. The Army has designated the acquisition effort for this capability as the CIRCM program.</p> <p>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>FY 2013</th> <th>FY 2014</th> <th>FY 2015</th> </tr> </thead> <tbody> <tr> <td>Title: CIRCM Technology Development (TD)</td> <td align="right">4.011</td> <td align="right">3.322</td> <td align="right">5.556</td> </tr> <tr> <td align="right">Articles:</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> <tr> <td colspan="4">FY 2013 Accomplishments: Support TD phase and program support for CIRCM.</td> </tr> <tr> <td colspan="4">FY 2014 Plans: Continue to Support TD phase and program support for CIRCM.</td> </tr> <tr> <td colspan="4">FY 2015 Plans: Achieve MS-B; Engineering Manufacturing Development contract award.</td> </tr> <tr> <td align="right">Accomplishments/Planned Programs Subtotals</td> <td align="right">4.011</td> <td align="right">3.322</td> <td align="right">5.556</td> </tr> </tbody> </table> <p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p> <p>D. Acquisition Strategy CIRCM was a New Start for the Navy. CIRCM is an ACAT-ID Army lead acquisition program for the development, integration and production of an Infra-red Countermeasure for US Army, US Navy, and US Marine Corps assault aircraft. The Army is conducting a 21 month competitive prototyping TD phase with two contractors. During this time the contractors will develop twelve test articles for various test events with emphasis placed on reliability in FY 2016. Contractor(s) will concurrently develop preliminary designs for the CIRCM system; conduct Systems Requirements Review, System Functional Review, and Preliminary Design</p>														FY 2013	FY 2014	FY 2015	Title: CIRCM Technology Development (TD)	4.011	3.322	5.556	Articles:	-	-	-	FY 2013 Accomplishments: Support TD phase and program support for CIRCM.				FY 2014 Plans: Continue to Support TD phase and program support for CIRCM.				FY 2015 Plans: Achieve MS-B; Engineering Manufacturing Development contract award.				Accomplishments/Planned Programs Subtotals	4.011	3.322	5.556
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<p>Review Systems Engineering Technical Review events at appropriate times in the schedule. Upon completion of TD, the Army will conduct a competition for award of Engineering Manufacturing Development (EMD) contract(s). The EMD phase will be no more than 26 months and will include Critical Design Reviews, Test Readiness Reviews, EMD test assets and extensive testing. Following EMD there will be a yet to be defined Low Rate Initial Production phase where full qualification testing is conducted to support a First Unit Equipped date of FY 2018.</p> <p><u>E. Performance Metrics</u></p> <p>FY 2013: Successful demonstration of Common Infrared Countermeasures-Joint and Allied Threat Awareness System (CIRCM-JATAS) Initial Capabilities Document Interoperability in Lab environment. Successful award of Engineering and Manufacturing Development (EMD) contract(s).</p> <p>FY 2014: Successful Critical Design Reviews and Technical Readiness Reviews</p>		

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PE 0604272N: *Tact Air Dir Infrared CM (TADIRCM)*
Navy

R-1 Line #76

R-1 Program Element (Number/Name)
PE 0604272N / *Tact Air Dir Infrared CM*
(TADIRCM)

Page 9 of 9

