Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

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

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	48.207	71.738	73.934	37.227	-	37.227	38.092	38.637	39.540	40.186	210.072	597.633
3302: <i>JATAS</i>	48.207	71.738	69.535	30.584	-	30.584	4.190	0.000	0.000	0.000	0.000	224.254
3304: CIRCM	0.000	0.000	4.399	6.643	-	6.643	33.902	38.637	39.540	40.186	210.072	373.379

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

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. 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 to begin 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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	64.097	73.934	37.609	-	37.609
Current President's Budget	71.738	73.934	37.227	-	37.227
Total Adjustments	7.641	0.000	-0.382	-	-0.382
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	9.068	0.000			
SBIR/STTR Transfer	-1.427	0.000			
Program Adjustments	0.000	0.000	-0.080	-	-0.080
 Rate/Misc Adjustments 	0.000	0.000	-0.302	-	-0.302

Change Summary Explanation

Schedule: 3302 Changes are as follows JATAS: Milestone C from 1st Qtr 2014 to 2nd Qtr 2014; Contractor TRR from 4th Qtr 2012 to 2nd Qtr 2013.

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

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^{##} The FY 2014 OCO Request will be submitted at a later date

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0604272N: Tact Air Dir Infrare	d CM (TADIRCM)
Changes in JATAS Engineering Development Model (EDM) deliver	eries are as follows: EDM Qual Test Com	np deliveries from 4th Qtr 2012 to 2nd Qtr 2013.
3304 CIRCM MS-B moved from 3Q FY2013 to 1Q FY2015 and M Army worked toward a MS"A" decision. When the TD contract wa completed and the team was ready to move forward with the TD get a MS"B" decision in FY14 it was not smart to have the decisio FY15. Based on the EMD contract award, MS"C" is planned for 20	is awarded, the Army had to work through phase, the final schedule approved by the on placed in the final quarter of the year.	n a protest period of 3.5 months. When the protest was a Army PM has MS"B" in 1Q15. While it was hope to The PM made the decision to move the Milestone to 1Q

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

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

All Prior

All Prior

DATE: April 2013

R-1 ITEM NOMENCLATURE
PE 0604272N: Tact Air Dir Infrared CM
(TADIRCM)

Cost To Total

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3302: <i>JATAS</i>	48.207	71.738	69.535	30.584	-	30.584	4.190	0.000	0.000	0.000	0.000	224.254
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

^{*} FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

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 2012	FY 2013	FY 2014
Title: Joint and Allied Threat Awareness System (JATAS AN/AAR-59) EMD	56.753	57.422	29.090
Articles:	0	0	0
Description: Continue Engineering and Manufacturing Development (EMD) phase and provide required program support for EMD phase.			
FY 2012 Accomplishments: Conduct Critical Design Review (CDR), Contractor Test Readiness Review (TRR), and began delivery of Engineering Development Model units to support contractor test and development.			
FY 2013 Plans: Conduct Government TRR, Maintenance Demonstration, and Integrated Test & Evaluation (IT&E).			
FY 2014 Plans: Continue IT&E, IOT&E, and achieve Milestone C (MS C)			
Title: Joint and Allied Threat Awareness System (JATAS AN/AAR-59) Integration	14.985	12.113	1.494

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

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Navy

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0604272N: Tact Air Dir Infrared CM	3302: <i>JATAS</i>
BA 4: Advanced Component Development & Prototypes (ACD&P)	(TADIRCM)	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Articles:	0	0	0
Description: Provide platform integration support and JATAS A-kit development.			
FY 2012 Accomplishments: Conduct A-kit Preliminary Design Review and CDR.			
FY 2013 Plans: Complete development of A-kits to support IT&E.			
FY 2014 Plans: Continue IT&E and IOT&E.			
Accomplishments/Planned Programs Subtotals	71.738	69.535	30.584

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	<u>000</u>	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• (APN) 0204161N/0576: <i>JATAS</i>	0.000	0.000	17.355		17.355	17.530	19.513	109.294	115.401	894.621	1,173.714
AN/AAR-59											

Remarks

Navy

D. Acquisition Strategy

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 will be developed in 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, when future technology advancements and funding permit, 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

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

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0604272N: Tact Air Dir Infrared CM (TADIRCM)	PROJECT 3302: JATAS
Development phase contract was awarded in FY2009 and the EMD conf FY2015.	tract was awarded in 4th Quarter FY2011. JATAS	S Initial Operational Capability is planned for
E. Performance Metrics		
JATAS EMD contract awarded in fourth quarter FY 2011. JATAS Integrated Baseline Review (IBR) was approved 2nd Quarter FY	2012.	

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

R-1 ITEM NOMENCLATURE PROJECT

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0604272N: Tact Air Dir Infrared CM

(TADIRCM)

3302: *JATAS*

DATE: April 2013

Product Developmen	it (\$ in Mi	illions)		FY 2	2012	FY 2	2013				FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hdw Dev JATAS I	C/CPIF	ATK:Clearwater, FL	8.209	0.000		0.000		0.000		-		0.000	0.000	8.209	8.209
Primary Hdw Dev JATAS I	C/CPIF	LM:Woodland Hills, CA	6.130	0.000		0.000		0.000		-		0.000	0.000	6.130	6.130
Primary Hdw Dev JATAS II	C/FPIF	ATK:Clearwater, FL	18.300	47.421	Nov 2011	35.518	Jun 2013	11.432	Nov 2013	-		11.432	1.438	114.109	114.109
Aircraft Integration JATAS	C/CPIF	Bell- Boeing:Philadelphia, PA	3.801	7.926	Jun 2012	12.141	Jun 2013	1.494	Feb 2014	-		1.494	0.083	25.445	25.445
Modeling/Simulation JATAS	WR	NAWCWD:Point Mugu, CA	0.355	0.000		0.071	Dec 2012	0.000		-		0.000	0.000	0.426	
Sys Eng Govt JATAS	WR	NAWCAD:Pax River, MD	2.224	3.000	Dec 2011	5.084	Dec 2012	2.644	Dec 2013	-		2.644	0.300	13.252	
Sys Eng Govt JATAS	WR	FRC:Jacksonville, FL	0.093	0.075	Dec 2011	0.000		0.075	Dec 2013	-		0.075	0.000	0.243	
	Subtotal 39.112					52.814		15.645		0.000		15.645	1.821	167.814	

Support (\$ in Millions)			FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise		FY 2014 OCO					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Configuration Mgmt JATAS	WR	NAWCAD:Pax River, MD	0.000	0.200	Dec 2011	0.000		0.000		-		0.000	0.000	0.200	
Integrated Logistics JATAS	WR	Various:Various	0.727	0.256	Dec 2011	0.628	Dec 2012	0.413	Dec 2013	-		0.413	0.000	2.024	
Integrated Logistics JATAS	C/CPFF	Wyle Labs:Huntsville, AL	0.473	0.355	Jun 2012	0.253	Jun 2013	0.515	Jun 2014	-		0.515	0.000	1.596	1.596
Sw Dev JATAS	WR	NAWCWD:Point Mugu, CA	0.490	0.553	Dec 2011	2.326	Dec 2012	0.937	Dec 2013	-		0.937	0.315	4.621	
		Subtotal	1.690	1.364		3.207		1.865		0.000		1.865	0.315	8.441	

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0604272N: Tact Air Dir Infrared CM

(TADIRCM)

PROJECT

3302: *JATAS*

Test and Evaluation	Test and Evaluation (\$ in Millions)			FY	2012	FY 2	2013	FY 2 Ba	2014 ise		FY 2014 FY 2014 OCO Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental T&E JATAS	WR	Various:Various	0.000	2.846	Dec 2011	9.162	Dec 2012	6.229	Dec 2013	-		6.229	0.034	18.271	
Operational T&E JATAS	WR	COTF:Norfolk, VA	0.200	0.195	Jan 2012	0.015	Dec 2012	0.419	Jan 2014	-		0.419	0.180	1.009	
ENG & Eval JATAS	C/CPFF	Various:Various	0.000	0.367	Dec 2011	0.127	Dec 2012	0.266	Dec 2013	-		0.266	0.134	0.894	0.894
ENG & Eval Govt JATAS	WR	Various:Various	1.534	0.893	Jan 2012	0.322	May 2013	4.463	Jan 2014	-		4.463	0.285	7.497	
Test Assets JATAS	WR	NAWCWD:China Lake, CA	0.000	3.900	Sep 2012	0.000		0.000		-		0.000	0.000	3.900	
		Subtotal	1.734	8.201		9.626		11.377		0.000		11.377	0.633	31.571	

Management Services (\$ in Millions)		FY 2	2012	FY:	2013	FY 2014 Base		FY 2014 OCO		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Eng Supt JATAS	C/CPFF	Various:Various	1.210	0.331	Dec 2011	0.269	Dec 2012	0.225	Dec 2013	-		0.225	0.340	2.375	2.375
Govt Eng Supt JATAS	WR	NAWCWD:Point Mugu, CA	2.006	1.842	Dec 2011	2.754	Dec 2012	0.717	Dec 2013	-		0.717	0.976	8.295	
Program Mgmt Supt JATAS	C/CPFF	Various:Various	1.200	0.880	Dec 2011	0.000		0.635	Dec 2013	-		0.635	0.000	2.715	2.715
Travel JATAS	WR	NAVAIR:Various	0.150	0.150	Dec 2011	0.150	Dec 2012	0.120	Dec 2013	-		0.120	0.105	0.675	
Direct Support Costs JATAS	WR	Various:Various	0.016	0.000		0.000		0.000		-		0.000	0.000	0.016	
Cost Analysis Supt JATAS	WR	NAWCAD:Pax River, MD	0.895	0.420	Dec 2011	0.715	May 2013	0.000		-		0.000	0.000	2.030	
NAWCAD Pax Supt JATAS	WR	NAWCAD:Pax River, MD	0.194	0.128	Dec 2011	0.000		0.000		-		0.000	0.000	0.322	
		Subtotal	5.671	3.751		3.888		1.697		0.000		1.697	1.421	16.428	

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy		DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT				
1319: Research, Development, Test & Evaluation, Navy	PE 0604272N: Tact Air Dir Infrared CM	3302: <i>JATAS</i>				
BA 4: Advanced Component Development & Prototypes (ACD&P)	(TADIRCM)					
		Target				

									Target
	All Prior	•		FY 2	2014 FY 2	2014 FY 2014	Cost To	Total	Value of
	Years	FY 20	012 FY :	2013 Ba	ise OC	CO Total	Complete	Cost	Contract
Project	ct Cost Totals 48.20	71.738	69.535	30.584	0.000	30.584	4.190	224.254	

Remarks

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

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE PROJECT PE 0604272N: Tact Air Dir Infrared CM

(TADIRCM)

3302: JATAS

JATAS FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 FY 2012 2Q 3Q 2Q 3Q 4Q 1Q|2Q|3Q|4Q|1Q 2Q | 4Q 1Q 1Q 3Q 4010 20 304010 20 304010 20 3040 Acquisition Milestones MS BLRIP JATAS CPD Milestones С Report IOC Systems Development FCA PCA TRA MS C Hardware Development Software Development PDR IBR A-kit Reviews PDR B-kit CDR A-kit _ CDR TRR B-kit Cont FRP TRR PRR OTRR FRR Govt DR Test & Evaluation OT OT IOT&E Report Report CT&E 2 IT&E Technical Evaluation OA Operational Evaluation Production Milestones FRP FRP FRP FRP LRIP I 2 3 APN Contract Awards Award ٩war 4war Award • • • Deliveries EDM Qual EDM(1) Test Comp

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

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APPROPRIATIONBUGET ACTIVITY In a first & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) EDM(S)	Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy	DATE: April 2013				
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) Component Development & Prototypes (ACD&P) PE 0604272N: Tact Air Dir Infrared CM (TADIRCM) Component Development & Prototypes (ACD&P) Component & Component & Prototypes (ACD&P) Component & Prototypes	APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE	PROJECT				
BA 4: Advanced Component Development & Prototypes (ACD&P) (TADIRCM) EDM(3)						
FRP I Deliveries FRP 2 Deliveries Deliveries	BA 4: Advanced Component Development & Prototypes (ACD&P) (TADIRCM)					
2014PB - 0604272N - 3302	EDM(3) EDM.(2) LRIP Deliveries	FRP I Deliveries FRP 2 FRP 3				
	2014PB - 0604272N - 3302					

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

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DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy PE 0604272N: Tact Air Dir Infrared CM

BA 4: Advanced Component Development & Prototypes (ACD&P) (TADIRCM)

PROJECT 3302: *JATAS*

Schedule Details

	Sta	art	En	n d	
Events by Sub Project	Quarter	Year	Quarter	Year	
JATAS					
Acquisition Milestones: Milestones: Capabilities Production Document (CPD)	3	2013	3	2013	
Acquisition Milestones: Milestone C	2	2014	2	2014	
Acquisition Milestones: Milestones: Beyond Low-Rate Initial Production Report (BLRIP)	1	2015	1	2015	
Acquisition Milestones: Milestones: Joint and Allied Threat Awareness System (JATAS) Initial Operational Capability (IOC)	3	2015	3	2015	
Systems Development: Technology Readiness Assessment for Milestone C (TRA MS C)	3	2013	4	2013	
Systems Development: Functional Configuration Audit (FCA)	1	2014	1	2014	
Systems Development: Physical Configuration Audit (PCA)	1	2015	1	2015	
Systems Development: Reviews: Integrated Baseline Review IBR	2	2012	2	2012	
Systems Development: Reviews: Preliminary Design Review (PDR) - A-kit	3	2012	3	2012	
Systems Development: Reviews: Preliminary Design Review (PDR) - B-kit	3	2012	3	2012	
Systems Development: Reviews: Critical Design Review (CDR) - A-kit	3	2012	3	2012	
Systems Development: Reviews: Critical Design Review (CDR) - B-kit	3	2012	3	2012	
Systems Development: Reviews: Test Readiness Review - Contractor (TRR Cont)	2	2013	2	2013	
Systems Development: Reviews: Test Readiness Review - Government (TRR Govt)	2	2013	2	2013	
Systems Development: Reviews: Flight Readiness Review (FRR)	1	2013	1	2013	
Systems Development: Reviews: Production Readiness Review (PRR)	1	2014	1	2014	
Systems Development: Reviews: Operational Test Readiness Review (OTRR)	3	2014	3	2014	
Systems Development: Reviews: Full Rate Production Decision Review (FRP DR)	1	2015	1	2015	
Test & Evaluation: Contractor Test and Evaluation (CT&E)	3	2012	2	2013	
Test & Evaluation: OT Report 1 (OT)	1	2014	1	2014	

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

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0604272N: Tact Air Dir Infrared CM

(TADIRCM)

PROJECT

3302: *JATAS*

	Sta	art	En	nd	
Events by Sub Project	Quarter	Year	Quarter	Year	
Test & Evaluation: Independent Operational Test and Evaluation (IOT&E)	3	2014	3	2014	
Test & Evaluation: OT Report 2 (OT)	1	2015	1	2015	
Test & Evaluation: Technical Evaluation: Initial Test and Evaluation (IT&E)	2	2013	3	2014	
Test & Evaluation: Operational Evaluation: Operational Assessment (OA)	4	2013	4	2013	
Production Milestones: Contract Awards: Low-Rate Initial Production (LRIP) I (APN)	1	2014	1	2014	
Production Milestones: Contract Awards: Full Rate Production (FRP) I Award	2	2015	2	2015	
Production Milestones: Contract Awards: Full Rate Production (FRP) 2 Award	2	2016	2	2016	
Production Milestones: Contract Awards: Full Rate Production (FRP) 3 Award	2	2017	2	2017	
Production Milestones: Contract Awards: Full Rate Production (FRP) 4 Award	2	2018	2	2018	
Deliveries: Engineering Development Model (EDM) Qual Test Comp Deliveries	2	2013	2	2013	
Deliveries: Engineering Development Model (EDM) Deliveries (1)	1	2013	1	2013	
Deliveries: Engineering Development Model (EDM) Deliveries (3)	1	2013	1	2013	
Deliveries: Engineering Development Model (EDM) Deliveries(2)	4	2013	4	2013	
Deliveries: Engineering Development Model (EDM) Deliveries (2)	1	2014	1	2014	
Deliveries: Low-Rate Initial Production Deliveries	1	2015	2	2016	
Deliveries: Full Rate Production (FRP) I Deliveries	2	2016	2	2017	
Deliveries: Full Rate Production (FRP) 2 Deliveries	2	2017	1	2018	
Deliveries: Full Rate Production (FRP) 3 Deliveries	2	2018	4	2018	

DATE: April 2013 Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 1319: Research, Development, Test & Evaluation, Navy PE 0604272N: Tact Air Dir Infrared CM 3304: CIRCM BA 4: Advanced Component Development & Prototypes (ACD&P) (TADIRCM)

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3304: CIRCM	0.000	0.000	4.399	6.643	-	6.643	33.902	38.637	39.540	40.186	210.072	373.379
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Common Infrared CounterMeasures (CIRCM) is a new start for the Navy with efforts to begin in FY 2013. 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 1D Special Interest program. The Army has designated the acquisition effort for this capability as the CIRCM program.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: CIRCM Technology Development (TD)	0.000	4.399	6.643
Articles:		0	0
FY 2013 Plans: Support TD phase and program support for CIRCM.			
FY 2014 Plans: Continue to Support TD phase and program support for CIRCM.			
Accomplishments/Planned Programs Subtotals	0.000	4.399	6.643

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

N/A

Remarks

D. Acquisition Strategy

CIRCM is a new start for the Navy with efforts to begin in FY 2013. 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 will conduct a 21 month competitive prototyping TD phase with two contractors. During this time the contractors will deliver twelve prototypes for various test events with emphasis placed on reliability. Contractor(s) will concurrently develop preliminary designs for the CIRCM system, conduct Systems Requirements Review, System Functional Review, and Preliminary Design

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

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R-1 Line #72

Navy

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0604272N: Tact Air Dir Infrared CM	3304: CIRO	CM
BA 4: Advanced Component Development & Prototypes (ACD&P)	(TADIRCM)		

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.

E. Performance Metrics

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 Develoment (EMD) contract(s)

FY 2014:

Navy

Successful Critical Design Reviews and Technical Readiness Reviews

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

PE 0604272N: Tact Air Dir Infrared CM

R-1 ITEM NOMENCLATURE

PROJECT

3304: CIRCM

BA 4: Advanced Component Development & Prototypes (ACD&P)

(TADIRCM)

Product Developmen	it (\$ in M	illions)		FY 2	2012	FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary HDW Dev CIRCM	TBD	TBD:TBD	0.000	0.000		0.000		1.985	Dec 2013	-		1.985	302.442	304.427	304.427
Sys Eng Govt CIRCM	WR	NAWCAD:Pax River, MD	0.000	0.000		2.225	Dec 2012	2.417	Dec 2013	-		2.417	19.175	23.817	
		Subtotal	0.000	0.000		2.225		4.402		0.000		4.402	321.617	328.244	

Support (\$ in Million	support (\$ in Millions)		FY 2	2012	FY 2014 FY 2013 Base		FY 2014 OCO		FY 2014 Total						
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics CIRCM I	WR	Various:Various	0.000	0.000		0.310	Dec 2012	0.310	Dec 2013	-		0.310	4.500	5.120	
Integrated Logistics CIRCM II	C/CPFF	Wyle Labs:Huntsville, AL	0.000	0.000		0.163	Jun 2013	0.171	Jun 2014	-		0.171	4.500	4.834	4.834
SW Dev CIRCM	WR	NAWCWD:Point Mugu, CA	0.000	0.000		0.118	Dec 2012	0.120	Dec 2013	-		0.120	5.512	5.750	
		Subtotal	0.000	0.000		0.591		0.601		0.000		0.601	14.512	15.704	

Test and Evaluation (\$ in Millions)			FY 2	2012	FY 2	2013	FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Eng & Eval CIRCM	C/CPFF	TBD:TBD	0.000	0.000		0.206	Dec 2012	0.210	Dec 2013	-		0.210	1.250	1.666	1.666
Eng & Eval Govt CIRCM	WR	Various:Various	0.000	0.000		0.641	Jan 2013	0.675	Jan 2014	-		0.675	9.031	10.347	
		Subtotal	0.000	0.000		0.847		0.885		0.000		0.885	10.281	12.013	

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

6.643

362.337

373.379

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604272N: Tact Air Dir Infrared CM

6.643

3304: CIRCM

BA 4: Advanced Component Development & Prototypes (ACD&P)

Project Cost Totals

0.000

0.000

(TADIRCM)

Management Services (\$ in Millions)			FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Eng Supt CIRCM	C/CPFF	Various:Various	0.000	0.000		0.329	Dec 2012	0.340	Dec 2013	-		0.340	0.352	1.021	1.021
Govt Eng Supt CIRCM	WR	NAWCWD:Point Mugu, CA	0.000	0.000		0.118	Dec 2012	0.125	Dec 2013	-		0.125	11.250	11.493	
Travel CIRCM	WR	NAVAIR:Various	0.000	0.000		0.063	Dec 2012	0.060	Dec 2013	-		0.060	1.075	1.198	
Cost Analysis Supt CIRCM	WR	NAWCAD:Pax River, MD	0.000	0.000		0.226	Dec 2012	0.230	Dec 2013	-		0.230	3.250	3.706	
		Subtotal	0.000	0.000		0.736		0.755		0.000		0.755	15.927	17.418	
			All Prior Years	FY 2	2012	FY:	2013		2014 ise	FY 2	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract

4.399

Remarks

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

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0.000

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

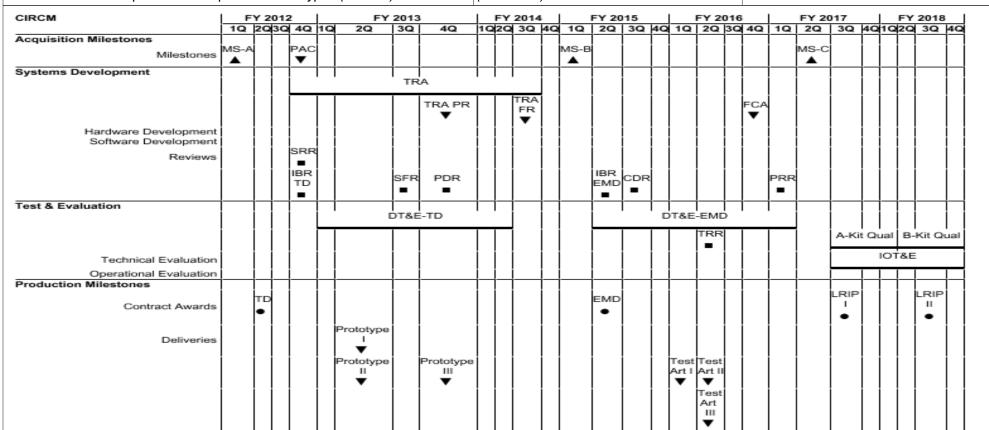
R-1 ITEM NOMENCLATURE

PE 0604272N: Tact Air Dir Infrared CM

(TADIRCM)

PROJECT

3304: CIRCM



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

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R-1 ITEM NOMENCLATURE

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy PE 0604272N: Tact Air Dir Infrared CM

BA 4: Advanced Component Development & Prototypes (ACD&P) (TADIRCM)

PROJECT

3304: CIRCM

Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
CIRCM					
Acquisition Milestones: Milestones A (MS-A)	1	2012	1	2012	
Acquisition Milestones: Milestones: Post Award Conference (PAC)	4	2012	4	2012	
Acquisition Milestones: Milestone B (MS-B)	1	2015	1	2015	
Acquisition Milestones: Milestone C (MS-C)	2	2017	2	2017	
Systems Development: Technical Readiness Assessment (TRA)	4	2012	3	2014	
Systems Development: Technical Readiness Assessment Preliminary Report (TRA PR)	4	2013	4	2013	
Systems Development: Technical Readiness Assessment Final Report (TRA FR)	3	2014	3	2014	
Systems Development: Functional Configuration Audit (FCA)	4	2016	4	2016	
Systems Development: Reviews: System Requirements Review (SRR)	4	2012	4	2012	
Systems Development: Reviews: Integrated Baseline Review (IBR TD)	4	2012	4	2012	
Systems Development: Reviews: System Functional Review (SFR)	3	2013	3	2013	
Systems Development: Reviews: Preliminary Design Review (PDR)	4	2013	4	2013	
Systems Development: Reviews: Integrated Baseline Review (IBR EMD)	2	2015	2	2015	
Systems Development: Reviews: Critical Design Review (CDR)	3	2015	3	2015	
Systems Development: Reviews: Production Readiness Review (PRR)	1	2017	1	2017	
Test & Evaluation: Developmental Test & Evaluation - TD (DT&E-TD)	1	2013	2	2014	
Test & Evaluation: Developmental Test & Evaluation - EMD (DT&E-EMD)	2	2015	1	2017	
Test & Evaluation: Test Readiness Review (TRR)	2	2016	2	2016	
Test & Evaluation: A-Kit Qualification Test	3	2017	1	2018	
Test & Evaluation: B-Kit Qualification Test	2	2018	4	2018	

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0604272N: Tact Air Dir Infrared CM

(TADIRCM)

PROJECT

3304: CIRCM

	St	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Test & Evaluation: Technical Evaluation: Integrated Operational Test & Evaluation (IOT&E)	3	2017	4	2018	
Production Milestones: Contract Awards: TD Contract Award	2	2012	2	2012	
Production Milestones: Contract Awards: EMD Contract Award	2	2015	2	2015	
Production Milestones: Contract Awards: LRIP I Contract Award	3	2017	3	2017	
Production Milestones: Contract Awards: LRIP II Contract Award	3	2018	3	2018	
Production Milestones: Deliveries: Prototype I Deliveries	2	2013	2	2013	
Production Milestones: Deliveries: Prototype II Deliveries	2	2013	2	2013	
Production Milestones: Deliveries: Prototype III Deviveries	4	2013	4	2013	
Production Milestones: Deliveries: Test Article I Deliveries	1	2016	1	2016	
Production Milestones: Deliveries: Test Article II Deliveries	2	2016	2	2016	
Production Milestones: Deliveries: Test Article III Deliveries	2	2016	2	2016	