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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy										Date: May 2017		
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)							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	12.977	18.963	72.910	46.844	5.710	52.554	47.991	49.652	52.754	36.166	Continuing	Continuing
3304: CIRCM	12.977	18.963	72.910	5.965	-	5.965	9.943	9.935	6.931	4.940	223.938	366.502
3348: DAIRCM Development	0.000	0.000	0.000	40.879	5.710	46.589	38.048	39.717	45.823	31.226	Continuing	Continuing

A. Mission Description and Budget Item Justification

This element includes development of electronic warfare systems for the United States Navy (USN) and United States Marine Corps (USMC) assault aircraft. This includes the development and testing of advanced infrared countermeasures systems for emerging threats and emergency contingencies for Aircraft Survivability Equipment (ASE) suite integration.

FY 2017 Research Development Test and Evaluation (RDT&E) funding is required for a federated Distributed Aperture Infrared Countermeasure (DAIRCM) system in support of Joint Urgent Operational Needs Statement (JUONS) S0-0010. Funding covers developmental activities in hardware and software to reduce the size, weight, and power required to achieve a threat (missile, LASER and Hostile Fire) warning detection and defeat system compatible with mission planning information that stores sensor data for post mission threat analysis.

FY 2018 RDT&E overseas contingency operations (OCO) funding is required to finalize testing in support of fielding the federated DAIRCM system.

FY 2018 - FY2022 RDT&E funding required for an integrated (under glass) DAIRCM lead and follow-on AH-1Z, UH-1Y and MH-60 platform integration and completion of the Engineering Change Proposal (ECP). Program of Record will eventually support integration and retrofit of 300 USMC and 397 USN aircraft.

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.

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy				Date: May 2017	
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)			
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	18.969	34.920	38.009	-	38.009
Current President's Budget	18.963	72.910	46.844	5.710	52.554
Total Adjustments	-0.006	37.990	8.835	5.710	14.545
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.006	0.000			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	37.990	9.000	5.710	14.710
• Rate/Misc Adjustments	0.000	0.000	-0.165	-	-0.165
Change Summary Explanation					
Schedule:					
Project Unit 3304 Common Infrared Countermeasures (CIRCM): Integrated Operational Test & Evaluation (IOT&E) from 4th Qtr. FY 2018 through 4th Qtr. FY 2019 to 4th Qtr. FY 2019 through 4th Qtr. FY 2020; Navy Development Test & Evaluation Engineering Manufacturing Development (DT&E-EMD) from 2nd Qtr. FY 2016 through 2nd Qtr. FY 2018 to 2nd Qtr. FY 2017 through 1st Qtr FY 2019; Navy Test Readiness Review (TRR) from 2nd Qtr. FY 2017 to 3rd Qtr. FY 2019; All tasks are on schedule and to be completed by the Army.					
Project Unit 3348 Federated Distributed Apertured Infrared Countermeasures (DAIRCM): Joint Urgent Operational Needs Statement development, integration and test started 2nd Qtr. FY 2016 through 2nd Qtr. FY 2018; Quick Reaction Assessment (QRA), 2nd Qtr. FY 2018. Common Aircraft Survivability Equipment DAIRCM INC II Blue/Green BISOG RDT&E funding (supporting United States Navy and United States Marine Corps requirements) for lead platform integration and completion of Engineering Change Proposal to Program of Record (PoR). PoR for DAIRCM to eventually support integration and retrofit of 300 USMC AH-1Z/UH-1Y and 397 USN MH-60R/S aircraft. Development integration and test will continue FY 2018 through FY 2022.					
PU 3348 DAIRCM Development Schedule reflects the unanticipated proliferation of a specific threat to assault rotary wing aircraft in Central Command, the United States Special Operations Command submitted a Joint Urgent Operational Needs Statement (JUONS) through the Joint Capabilities Integration and Development System process on 30MAR15. The JUONS was validated by the Joint Staff on 24APR15. The JRAC directed the services on 29MAY15 to provide a material solution that meets the requirements of the JUONS. Funding for the DAIRCM system was received via Rapid Acquisition Authority in Jan 2016. UCAs were awarded in March 2016. Transition from JUONS to POR will begin in 2018.					
NOTE: Current schedule was revised to include the implementation of the DAIRCM planned program of record.					

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)				Project (Number/Name) 3304 / CIRCM			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
3304: CIRCM	12.977	18.963	72.910	5.965	-	5.965	9.943	9.935	6.931	4.940	223.938	366.502
Quantity of RDT&E Articles		-	5	8	-	8	-	-	-	-		

A. Mission Description and Budget Item Justification

Common Infrared Countermeasures (CIRCM) was a new start for the Navy 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 infrared threats. An Under Secretary of Defense for Acquisition, Technology and Logistics (USD (AT&L)) Acquisition Decision Memorandum (ADM) dated 15 April 2009 designated the Army as the lead service for developing this capability for rotary-wing, tilt-rotor, and small fixed-wing aircraft across the Department of Defense. It also designated the program as an Acquisition Category (ACAT) ID special interest program. The Army has designated the acquisition effort for this capability as the CIRCM program.

Distributed Aperture Infrared Countermeasure (DAIRCM) Developmental activities in hardware and software are being pursued to reduce the size, weight and power required to achieve a missile warning detection system integrated with an infrared countermeasure. DAIRCM development, integration and testing will first be conducted in a federated configuration to support Joint Urgent Operational Needs Statement (JUONS) SO-0010 with follow-on work to begin in FY 2018 to provide an integrated (under glass) solution to the host platforms. This project develops integrated hardware/software solutions that link on-board integrated Aircraft Survivability Equipment (iASE) that are compatible with mission planning information and store sensor data for post mission threat analysis. This project also adopts future multi-band, networking capabilities to facilitate real-time transfer of threat information, and off-board queuing and control of onboard sensors.

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

	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: CIRCM Technology Development (TD)	18.963	72.910	5.965	0.000	5.965
Articles:	-	5	8	-	8
FY 2016 Accomplishments: CIRCM entered the Engineering Manufacturing Development (EMD) phase in 4QTR FY 2016. The CIRCM Critical Design Review is scheduled for 4Qtr. FY 2016.					
FY 2017 Plans: Begin Development Test and Evaluation (DT&E) phase of the EMD.					
FY 2018 Base Plans: Continuation of EMD contract.					
FY 2018 OCO Plans:					

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy				Date: May 2017	
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0604272N / <i>Tact Air Dir Infrared CM (TADIRCM)</i>		Project (Number/Name) 3304 / <i>CIRCM</i>	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Continuation of EMD contract.					
Accomplishments/Planned Programs Subtotals	18.963	72.910	5.965	0.000	5.965

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

Remarks

D. Acquisition Strategy
Common Infrared Countermeasures (CIRCM) was a new start for the Navy in FY 2013. CIRCM is an Acquisition Category (ACAT) ID Army lead acquisition program for the development, integration and production of an infrared countermeasure for US Army, US Navy, and US Marine Corps assault aircraft. The Army conducted a 21 month competitive prototyping Technology Development (TD) phase with two contractors. During the TD phase the contractors developed TD test articles for various test events with emphasis placed on reliability. Contractors concurrently developed preliminary designs for the CIRCM system, conducted systems requirements review, system functional review, and preliminary design review systems engineering technical review events at appropriate times in the schedule. Upon completion of TD, the Army conducted 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, 5 EMD test articles in FY 2017 and extensive testing. Following EMD there will be Low Rate Initial Production (LRIP) phase where full qualification testing is conducted to support an Army first unit equipped date of FY 2020. There will be 8 Navy LRIP units delivered in FY 2018. The Navy's Initial Operational Capability (IOC) will be in FY 2021.

The federated DAIRCM was started as a solution to JUONS SO-0010 and funded via Rapid Acquisition Authority (RAA) with follow-on funding supplied via FY 2017 and FY 2018 Overseas Contingency Operations funding to complete the development, integration and test to support initial fielding in FY 2018. Department of Navy is in the process of developing a Capability Production Document (CPD) to support the transition to an integrated (under glass) solution. Development, integration and test of the integrated solution will occur between FY 2018 and FY 2022.

E. Performance Metrics
FY2015:
Achievement of Milestone B. Successful EMD contract award by US Army.

FY2016:
Successful critical design review.

FY2017:
Successful exercise of Navy option on Army EMD contract for EMD test assets.

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COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
3348: DAIRCM Development	0.000	0.000	0.000	40.879	5.710	46.589	38.048	39.717	45.823	31.226	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Distributed Aperture Infrared Countermeasures (DAIRCM) Developmental activities in hardware and software are being pursued to reduce the size, weight and power required to achieve a missile warning detection system integrated with an infrared countermeasure. DAIRCM development, integration and testing will first be conducted in a federated configuration to support Joint Urgent Operational Needs Statement (JUONS) SO-0010 with follow-on work to begin in FY 2018 to provide an integrated (under glass) solution to the host platforms. This project develops integrated hardware/software solutions that link on-board integrated Aircraft Survivability Equipment (iASE) that are compatible with mission planning information and store sensor data for post mission threat analysis. This project also adopts future multi-band, networking capabilities to facilitate real-time transfer of threat information, and off-board queuing and control of onboard sensors.

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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: DAIRCM Development	0.000	0.000	40.879	5.710	46.589
Articles:	-	-	-	-	-
FY 2016 Accomplishments: N/A					
FY 2017 Plans: N/A					
FY 2018 Base Plans: Planning is beginning in FY 2018 to support Integrated DAIRCM efforts.					
FY 2018 OCO Plans: Planning is beginning in FY 2018 to support Integrated DAIRCM efforts.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	40.879	5.710	46.589

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

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy		Date: May 2017
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C. Other Program Funding Summary (\$ in Millions) Remarks D. Acquisition Strategy <p>The federated Distributed Aperture Infrared Countermeasures (DAIRCM) was started as a solution to Joint Urgent Operational Needs Statement (JUONS) SO-0010 and funded via Rapid Acquisition Authority (RAA) with follow-on funding supplied via FY 2017 (PU 3304) and FY 2018 (PU 3348) Overseas Contingency Operations funding to complete the development, integration and test to support initial fielding in FY18. Department of Navy is in the process of developing a Capability Production Document (CPD) to support the transition to an integrated (under glass) solution. Development, integration and test of the integrated solution will occur between FY 2018 and FY 2022.</p> E. Performance Metrics <p>FY 2018: Award of ECP to meet statutory regulations.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)				Project (Number/Name) 3348 / DAIRCM Development					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 HW Dev DAIRCM	C/CPFF	DRS : Dallas, TX	0.000	0.000		0.000		10.237	Jan 2018	-		10.237	37.484	47.721	47.918
Primalry HW Dev DAIRCM	C/CPFF	Daylight Solutions : San Diego, CA	0.000	0.000		0.000		3.194	Jan 2018	-		3.194	27.485	30.679	30.679
H-1 Operational Flight Program Dev	C/CPFF	Lockheed Martin : Owego, NY	0.000	0.000		0.000		9.420	Jan 2018	-		9.420	Continuing	Continuing	Continuing
H-60 Operational Flight Program Deve	C/CPFF	Northrop Grumman : Woodland Hills, CA	0.000	0.000		0.000		5.943	Jan 2018	-		5.943	35.000	40.943	40.943
Subtotal			0.000	0.000		0.000		28.794		-		28.794	-	-	-
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Govt Integrated Logistic Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.200	Oct 2017	-		0.200	2.000	2.200	-
Govt Integrated Logistic Support	WR	NAWCWD : Point Mugu, CA	0.000	0.000		0.000		0.065	Oct 2017	-		0.065	2.000	2.065	-
Govt Integrated Logistic Support	WR	NAWCWD : China Lake, CA	0.000	0.000		0.000		0.063	Oct 2017	-		0.063	2.000	2.063	-
Govt Integrated Logistic Support	WR	Fleet Readiness Center : Jacksonville, FL	0.000	0.000		0.000		0.350	Oct 2017	-		0.350	2.000	2.350	-
Govt Integrated Logistic Support	WR	NAWCTSD : Pensacola, FL	0.000	0.000		0.000		0.200	Oct 2017	-		0.200	2.000	2.200	-
Contractor Logistic Support	SS/CPFF	RIAC : Ft Belvoir, VA	0.000	0.000		0.000		0.622	Oct 2017	-		0.622	2.000	2.622	2.622
Contractor Logistic Support	TBD	TBD : TBD	0.000	0.000		0.000		0.010	Oct 2017	-		0.010	2.000	2.010	2.010
Material/Equipment	WR	NAVSEA : Crane, IN	0.000	0.000		0.000		0.367	Oct 2017	-		0.367	2.000	2.367	-
Commercial Transportation	TBD	Various : Various	0.000	0.000		0.000		0.008	Oct 2017	-		0.008	0.000	0.008	-
Subtotal			0.000	0.000		0.000		1.885		-		1.885	16.000	17.885	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)						Project (Number/Name) 3348 / DAIRCM Development			
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Govt T&E Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.000	Oct 2017	0.210	Oct 2017	0.210	4.000	4.210	-
Govt T&E Support	WR	NAWCWD : China Lake, CA	0.000	0.000		0.000		0.000	Oct 2017	1.500	Oct 2017	1.500	4.000	5.500	-
Live Fire	WR	TBD : TBD	0.000	0.000		0.000		0.000	Oct 2017	4.000	Oct 2017	4.000	8.000	12.000	-
Contractor T& E Support	TBD	GWEF : Eglin AFB, FL	0.000	0.000		0.000		0.000		-		0.000	3.000	3.000	3.000
Govt T&E Support	WR	COTF : Norfolk, VA	0.000	0.000		0.000		0.000		-		0.000	1.000	1.000	-
Subtotal			0.000	0.000		0.000		0.000		5.710		5.710	20.000	25.710	-
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Govt Eng Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		1.500	Oct 2017	-		1.500	4.000	5.500	-
Govt Eng Support	WR	NAWCWD : Pt Mugu, CA	0.000	0.000		0.000		0.500	Oct 2017	-		0.500	4.000	4.500	-
Govt Eng Support	WR	NRL : Washington, DC	0.000	0.000		0.000		3.000	Oct 2017	-		3.000	6.000	9.000	-
Govt Eng Support	WR	NAWCWD : China Lake, CA	0.000	0.000		0.000		0.200	Oct 2017	-		0.200	1.000	1.200	-
Govt Eng Support	WR	Fleet Readiness Center : Jacksonville, FL	0.000	0.000		0.000		0.200	Oct 2017	-		0.200	1.000	1.200	-
Amelex Contractor Mgmt Support	C/CPFF	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.200	Nov 2017	-		0.200	0.900	1.100	1.100
Engility Contractor Eng Support	C/CPFF	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.200	Jun 2018	-		0.200	0.000	0.200	0.200
Contractor Eng Support	TBD	NRL : Washington, DC	0.000	0.000		0.000		0.200	Apr 2018	-		0.200	0.000	0.200	0.200

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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) 3348 / <i>DAIRCM Development</i>				

Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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 Support H-1 MC SW	TBD	TBD : TBD	0.000	0.000		0.000		4.000	Apr 2018	-		4.000	0.000	4.000	4.000
Travel DAIRCM	WR	NAVAIR Various : Patuxent River, MD	0.000	0.000		0.000		0.200	Dec 2017	-		0.200	1.000	1.200	-
Govt Eng Support	WR	NSWC : Dahlgren, VA	0.000	0.000		0.000		0.000		-		0.000	1.000	1.000	-
Subtotal			0.000	0.000		0.000		10.200		-		10.200	18.900	29.100	-

	Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		0.000		40.879		5.710		46.589	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy

Date: May 2017

Appropriation/Budget Activity

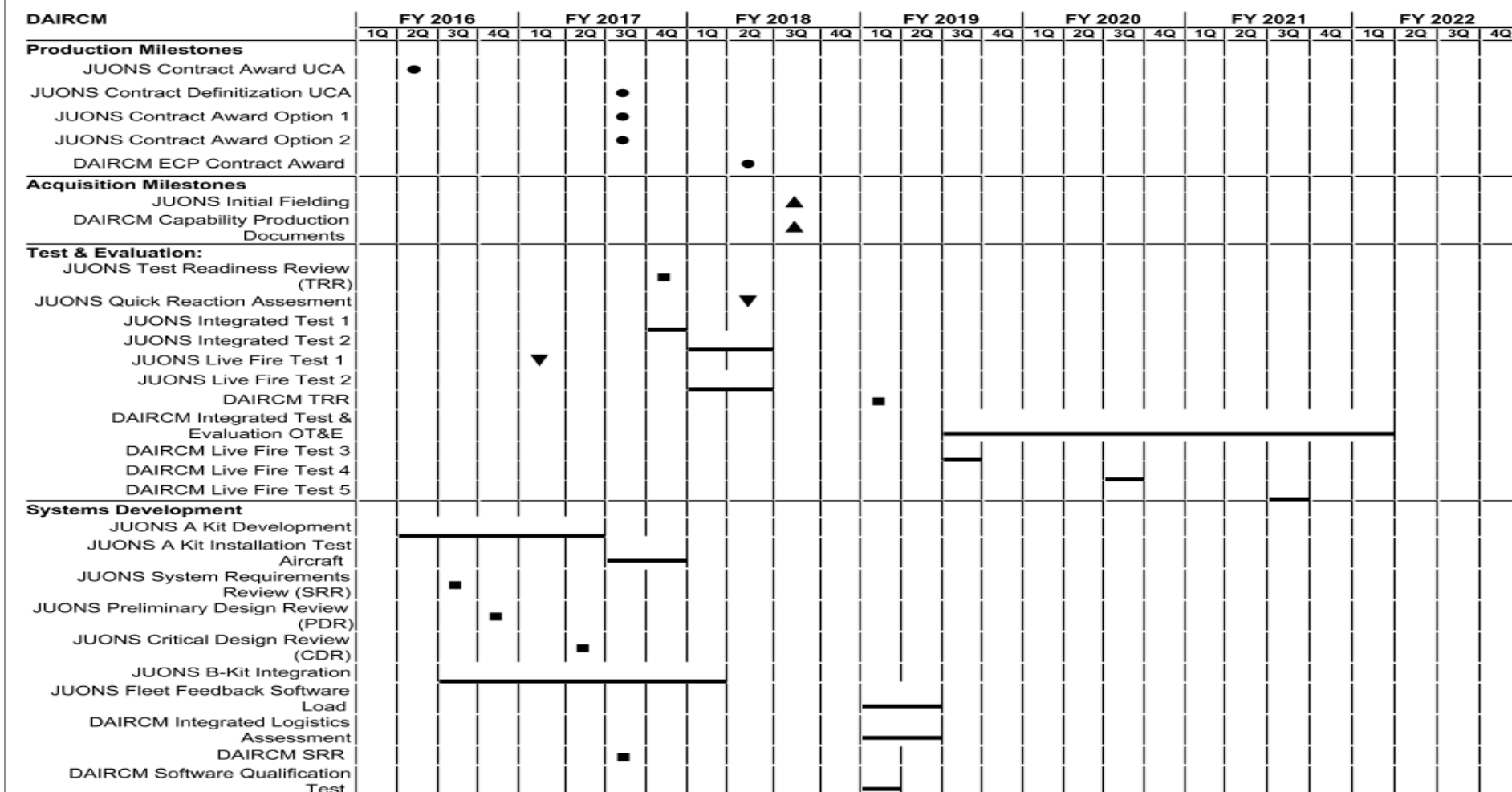
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R-1 Program Element (Number/Name)

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

Project (Number/Name)

3348 / DAIRCM Development



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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy														Date: May 2017																											
Appropriation/Budget Activity 1319 / 4														R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)														Project (Number/Name) 3348 / DAIRCM Development													
DAIRCM PDR																																									
DAIRCM Software Validation & Verification																																									
DAIRCM CDR																																									
DAIRCM B-Kit Integration and Test																																									
Deliveries																																									
JUONS Hardware Deliveries																																									
JUONS Test Hardware Delivery																																									
2018OSD - 0604272N - 3348																																									

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604272N / <i>Tact Air Dir Infrared CM (TADIRCM)</i>	Project (Number/Name) 3348 / <i>DAIRCM Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
DAIRCM				
Production Milestones: JUONS Contract Award UCA: Schedule Detail	2	2016	2	2016
Production Milestones: JUONS Contract Definitization UCA: Schedule Detail	3	2017	3	2017
Production Milestones: JUONS Contract Award Option 1: Schedule Detail	3	2017	3	2017
Production Milestones: JUONS Contract Award Option 2: Schedule Detail	3	2017	3	2017
Production Milestones: DAIRCM ECP Contract Award: Schedule Detail	2	2018	2	2018
Acquisition Milestones: JUONS Initial Fielding: Schedule Detail	3	2018	3	2018
Acquisition Milestones: DAIRCM Capability Production Documents: Schedule Detail	3	2018	3	2018
Test & Evaluation:: JUONS Test Readiness Review (TRR): Schedule Detail	4	2017	4	2017
Test & Evaluation:: JUONS Quick Reaction Assesment: Schedule Detail	2	2018	2	2018
Test & Evaluation:: JUONS Integrated Test 1: Schedule Detail	4	2017	4	2017
Test & Evaluation:: JUONS Integrated Test 2: Schedule Detail	1	2018	2	2018
Test & Evaluation:: JUONS Live Fire Test 1: Schedule Detail	1	2017	1	2017
Test & Evaluation:: JUONS Live Fire Test 2: Schedule Detail	1	2018	2	2018
Test & Evaluation:: DAIRCM TRR: Schedule Detail	1	2019	1	2019
Test & Evaluation:: DAIRCM Integrated Test & Evaluation OT&E: Schedule Detail	3	2019	1	2022
Test & Evaluation:: DAIRCM Live Fire Test 3: Schedule Detail	3	2019	3	2019
Test & Evaluation:: DAIRCM Live Fire Test 4: Schedule Detail	3	2020	3	2020
Test & Evaluation:: DAIRCM Live Fire Test 5: Schedule Detail	3	2021	3	2021
Systems Development: JUONS A Kit Development: Schedule Detail	2	2016	2	2017
Systems Development: JUONS A Kit Installation Test Aircraft: Schedule Detail (TEST)	3	2017	4	2017
Systems Development: JUONS System Requirements Review (SRR): Schedule Detail	3	2016	3	2016

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017		
Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0604272N / Tact Air Dir Infrared CM (TADIRCM)		Project (Number/Name) 3348 / DAIRCM Development	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Systems Development: JUONS Preliminary Design Review (PDR): Schedule Detail		4	2016	4	2016
Systems Development: JUONS Critical Design Review (CDR): Schedule Detail		2	2017	2	2017
Systems Development: JUONS B-Kit Integration: Schedule Detail		3	2016	1	2018
Systems Development: JUONS Fleet Feedback Software Load: Schedule Detail		1	2019	2	2019
Systems Development: DAIRCM Integrated Logistics Assessment: Schedule Detail		1	2019	2	2019
Systems Development: DAIRCM SRR: Schedule Detail		3	2017	3	2017
Systems Development: DAIRCM Software Qualification Test: Schedule Detail		1	2019	1	2019
Systems Development: DAIRCM PDR: Schedule Detail		3	2018	3	2018
Systems Development: DAIRCM Software Validation & Verification: Schedule Detail		2	2019	4	2019
Systems Development: DAIRCM CDR: Schedule Detail		1	2019	1	2019
Systems Development: DAIRCM B-Kit Integration and Test: Schedule Detail		4	2019	2	2020
Deliveries: JUONS Hardware Deliveries: Software Qualification test		1	2018	1	2019
Deliveries: JUONS Test Hardware Delivery: Schedule Detail		4	2016	1	2018