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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	126.971	8.746	13.235	20.980	-	20.980	20.380	19.764	3.086	3.045	Continuing	Continuing
0606: Aircrew System Development	126.971	8.746	13.235	20.980	-	20.980	20.380	19.764	3.086	3.045	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Aircrew Systems Development program provides Engineering and Manufacturing Development of Aviation Life Support Systems to protect aircrew and flight deck personnel from current and future threats including: directed energy weapons, chemical/biological/radiological agents/fallout, ballistic projectiles, temperature extremes, heat/fire, low concentration oxygen environments, high dynamic forces during emergency egress, hearing loss, and high "G" forces. The program also provides development for the following capabilities: night vision capability, hearing and head protection, aircrew endurance, aircrew performance, man mounted data display, communications, clothing, in flight restraint and stability emergency egress and descent, escape and evasion, survival and rescue, crash protection, and anthropometric sizing for small aircrew. Acquisition initiatives include: competition, the application of streamlining initiatives, use of non-developmental items, joint and tri-service developments, and the pursuit of NATO/allied cooperative ventures, which expedite introduction of new products into Navy and Marine Corps fixed and rotary wing aircraft, reduce costs, and promote commonality.

JUSTIFICATION FOR BUDGET ACTIVITY:

This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production decision.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	13.577	13.235	18.697	-	18.697
Current President's Budget	8.746	13.235	20.980	-	20.980
Total Adjustments	-4.831	0.000	2.283	-	2.283
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.400	0.000			
• SBIR/STTR Transfer	-0.131	0.000			
• Program Adjustments	0.000	0.000	2.700	-	2.700
• Rate/Misc Adjustments	0.000	0.000	-0.417	-	-0.417
• Congressional Directed Reductions	-6.100	-	-	-	-
Adjustments					

UNCLASSIFIED

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<p><u>Change Summary Explanation</u></p> <p>Schedule:</p> <p>1. Acquisition Milestones:</p> <p>A. Laser Eye Protection (LEP) - Milestone B (MS B), Milestone C (MS C), Initial Operational Capability (IOC) and Full Rate Production (FRP) delayed due to extended revision of threat requirement and decision not to procure United States Air Force (USAF) spectacle.</p> <p>B. Enhanced Visual Acuity (EVA) - MS B and MS C dates changed to reflect revised schedule.</p> <p>2. System Development:</p> <p>A. LEP - System Readiness Review 1 moved from 4Q FY15 to 1Q FY17; System Function Review/System Readiness Review 2 moved from 2Q FY17 to 1Q FY18; Critical Design Review moved from 1Q FY18 to 2Q FY19; Test Readiness Review moved from 2Q FY18 to 4Q FY19; System Verification Review/Production Readiness Review moved from 2Q FY19 to 2Q FY21; Physical Configuration Audit moved from 2Q FY20 to 1Q FY22.</p> <p>B. EVA - Moved Preliminary Design Review from 1Q FY17 to 2Q FY19; moved Critical Design Review from 4Q FY17 to 1Q FY20; moved Test Readiness Review from 3Q FY18 to 1Q FY21; moved System Verification Review/Production Readiness Review from 3Q FY19 to 1Q FY22.</p> <p>3. Test and Evaluation:</p> <p>A. LEP - Developmental Test shifted from 4Q FY18 to 1Q FY20.</p> <p>B. EVA - Developmental Test shifted from 3Q FY18 to 3Q FY20; Operational Test shifted from 2Q FY20 to 3Q FY22.</p> <p>4. Production Milestones:</p> <p>A. LEP - Engineering Development Model (EDM), Low Rate Initial Production (LRIP) and Full Rate Production (FRP) contract award dates changed to align with milestone decisions.</p> <p>B. EVA - EDM, LRIP 1 and LRIP 2 contract award dates changed to align with milestone decisions.</p> <p>5. Deliveries:</p> <p>A. Laser Eye Protection Spectacles (LEP) - Engineering Development Model (EDM) quantity changed from 62 to 91; Low Rate Initial Production (LRIP) 1 quantity changed from 550 to 350; Full Rate Production (FRP) 1 quantity changed from 665 to 535.</p> <p>B. Enhanced Visual Acuity (EVA) - EDM quantity changed from 25 to 12; LRIP 1 quantity changed from 6 to 25 and LRIP 2 quantity changed from 64 to 100.</p> <p>Technical: N/A</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development				Project (Number/Name) 0606 / Aircrew System Development			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
0606: Aircrew System Development	126.971	8.746	13.235	20.980	-	20.980	20.380	19.764	3.086	3.045	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

AIRCREW SYSTEMS: Laser Eye Protection (LEP), Enhanced Visual Acuity (EVA), and Aircrew Systems (AS).

Under the above projects, LEP provides eye protection solutions that will provide Fixed, Rotary Wing and Patrol pilots and aircrew with multiple wavelength fixed threat and hazard protection during day and night unaided and Night Vision Goggle aided missions. LEP will consist of a suite of products to include spectacles, goggles and visors. The LEP (visor, spectacle or goggle format) is being developed for compatibility with all required USN/USMC Aviation Life Support Equipment as well as cockpit displays, night vision and fire control systems. EVA provides advanced night vision/Head Up Display (HUD) capability to address critical capability gaps in low and no light illumination levels (night vision). EVA will be integrated on current aircraft through a common interface allowing incremental, modular approach to fielding full capability and future upgrades. Future increments will provide enhanced aircrew situational awareness in degraded visual environment. Aircrew Systems includes State of the Art (SOA) and Survival Systems which provides for the yearly evaluation of the survival, clothing and other aircrew systems that provide upgraded performance, fill capability gaps, improve aircrew endurance and performance, safety and enhance survivability.

AIRCRAFT SYSTEMS: Aircraft Systems include studies for Advanced Crash Protection, SOA, and Survival Systems. SOA provides for the yearly evaluation of the survival systems that provide upgraded performance, improve endurance, fill capability gaps and improve performance, safety and enhance survivability.

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

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Aircrew System Development	8.245	10.938	18.405	0.000	18.405
Articles:	-	-	-	-	-
Description: Laser Eye Protection (LEP) provides Spectacles (both Self Protection and Multi-Wavelength), goggles, step-in visor and Laser Eye Protection Improvement Program (LEPIP) which monitors emerging threats and changes to technology. Enhanced Visual Acuity (EVA) provides advanced night vision/Head Up Display (HUD) capability to address critical capability gaps in low and no light illumination (Night Vision). Future increments will provide enhanced visibility in degraded visual environments. AS includes SOA.					
FY 2018 Plans: Laser Eye Protection (LEP): Continue research and development of the next increment of threat spectacle, complete System Readiness Review 2 (SRR2).					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy				Date: February 2018		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development		Project (Number/Name) 0606 / Aircrew System Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<p>Enhanced Visual Acuity (EVA): Continue development, award Engineering, Demonstration and Manufacturing contract and receive Milestone B Decision.</p> <p>State of the Art (SOA): Continue a yearly evaluation and authorization of the survival, clothing, and other aircrew systems items. Identification, testing and approval of items that provide upgraded performance, fill capability gaps, improve aircrew endurance, improve aircrew performance and safety and enhance survivability.</p> <p>Physiological Episode Protection: Mitigate risk of loss of aircrew and Tactical and Training jet platforms due to Physiological Episodes using monitoring and alert systems. Develop, prototype, and test a physiological monitoring system that detects physiological episodes and provides a warning in time to enable the aircrew to execute emergency procedures and recover safely.</p> <p>FY 2019 Base Plans:</p> <p>Laser Eye Protection (LEP): Continue research and development of the next increment of threat spectacle, complete Critical Design Review (CDR), complete Technical Readiness Review (TRR), and deliver 91 Engineering Development Models (EDM).</p> <p>Enhanced Visual Acuity (EVA): Continue development and complete Preliminary Design Review (PDR).</p> <p>State of the Art (SOA): Continue a yearly evaluation and authorization of the survival, clothing, and other aircrew systems items. Identification, testing and approval of items that provide upgraded performance, fill capability gaps, improve aircrew endurance, improve aircrew performance and safety and enhance survivability.</p> <p>Physiological Episode Protection: Mitigate risk of loss of aircrew and Tactical and Training jet platforms due to Physiological Episodes using monitoring and alert systems. Develop, prototype, and test a physiological monitoring system that detects physiological episodes and provides a warning in time to enable the aircrew to execute emergency procedures and recover safely.</p> <p>FY 2019 OCO Plans:</p> <p>N/A</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement:</p> <p>FY2018 to FY2019 Increase due to Enhanced Visual Acuity (EVA) Engineering and Manufacturing Development (EMD) Contract.</p>						
<p>Title: Aircraft Systems Development</p> <p>Articles:</p> <p>Description: Aircraft Systems include studies for Advanced Crash Protection, and State of the Art (SOA).</p> <p>FY 2018 Plans:</p>		0.501 -	2.297 -	2.575 -	0.000 -	2.575 -

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development				Project (Number/Name) 0606 / Aircrew System Development				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<p>State of the Art (SOA): Continue a yearly evaluation and authorization to include identification, testing and approval of items that provide upgraded performance, fill capability gaps, improve endurance, improve performance and safety and enhance survivability.</p> <p>Oxygen Cart (Peculiar Support Equipment (PSE)): The Emergency Oxygen Source (EOS) in the F/A-18 Navy Aircrew Common Ejection Seat (NACES) survival kit will be changed to afford the pilot more emergency oxygen in the event of a hypoxia incidence. This change will drive a requirement for PSE O2 servicing cart used to service the EOS cylinder. This part of the effort will develop, prototype and test an oxygen cart to reach the pressures required.</p> <p>FY 2019 Base Plans: State of the Art (SOA): Continue a yearly evaluation and authorization to include identification, testing and approval of items that provide upgraded performance, fill capability gaps, improve endurance, improve performance and safety and enhance survivability. Oxygen Cart (Peculiar Support Equipment (PSE)): The Emergency Oxygen Source (EOS) in the F/A-18 Navy Aircrew Common Ejection Seat (NACES) survival kit will be changed to afford the pilot more emergency oxygen in the event of a hypoxia incidence. This change will drive a requirement for PSE O2 servicing cart used to service the EOS cylinder. This part of the effort will develop, prototype and test an oxygen cart to reach the pressures required.</p> <p>FY 2019 OCO Plans: N/A</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: No significant change from FY 2018 to FY 2019.</p>												
Accomplishments/Planned Programs Subtotals								8.746	13.235	20.980	0.000	20.980
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• OPN/4268: Aviation Life Support	15.028	39.867	16.070	-	16.070	28.904	29.827	45.400	46.153	Continuing	Continuing	
• APN/0575: Aviation Life Support Mods	0.000	0.000	15.864	-	15.864	38.346	38.491	4.773	5.871	48.221	171.934	
Remarks												

UNCLASSIFIED

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604264N / <i>Air Crew Systems Development</i>	Project (Number/Name) 0606 / <i>Aircrew System Development</i>
D. Acquisition Strategy Commercial Off-The-Shelf /Non-Developmental Items where possible, cost type contracts.		
E. Performance Metrics Enhanced Visual Acuity: Performance Metrics to include Preliminary Design Review (PDR), Critical Design Review (CDR), Milestone B (MS B), Milestone C (MS C) and IOC. Laser Eye Protection: Performance Metrics to include System Readiness Review (SRR), Critical Design Review (CDR), Test Readiness Review (TRR), System Verification Review/Production Readiness Review (SVR/PRR), Milestone B (MS B), Milestone C (MS C), Initial Operating Capability (IOC) and Full Rate Production Decision Review (FRPDR).		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy												Date: February 2018			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development				Project (Number/Name) 0606 / Aircrew System Development					
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Systems Eng Laser Eye Protection (LEP)	WR	NAWCAD : Patuxent River, MD	8.648	1.398	Feb 2017	1.191	Dec 2017	1.070	Dec 2018	-		1.070	Continuing	Continuing	Continuing
Systems Eng Laser Eye Protection (LEP)	C/FFP	NAVAIR : Patuxent River, MD	0.000	0.573	Sep 2017	1.572	Mar 2018	0.420	Mar 2019	-		0.420	3.035	5.600	5.600
Systems Eng Aircrew Systems	WR	Various : Various	13.495	2.938	Feb 2017	1.224	Feb 2018	0.525	Feb 2019	-		0.525	Continuing	Continuing	Continuing
Systems Eng Aircraft Systems	WR	Various : Various	44.479	0.501	Feb 2017	1.374	Feb 2018	0.635	Feb 2019	-		0.635	Continuing	Continuing	Continuing
Systems Eng Aircraft Systems	SS/FFP	USAF : WPAFB, OH	0.156	0.000		0.000		0.000		-		0.000	0.000	0.156	-
System Eng Enhanced Visual Acuity	C/CPFF	Various : Various	3.120	0.592	Mar 2017	2.496	May 2018	11.677	Mar 2019	-		11.677	Continuing	Continuing	Continuing
System Eng Enhanced Visual Acuity	WR	Various : Patuxent River, MD	9.348	2.699	Feb 2017	2.539	Feb 2018	2.796	Feb 2019	-		2.796	Continuing	Continuing	Continuing
Systems Eng Physiological Episode Protection	C/CPFF	TBD : TBD	0.000	0.000		1.870	Nov 2017	1.870	Nov 2018	-		1.870	Continuing	Continuing	Continuing
Systems Eng O2 Cart	C/CPFF	NAWCAD : Lakehurst, NJ	0.000	0.000		0.923	Feb 2018	1.940	Feb 2019	-		1.940	Continuing	Continuing	Continuing
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	34.569	0.000		0.000		0.000		-		0.000	0.000	34.569	-
Subtotal			113.815	8.701		13.189		20.933		-		20.933	Continuing	Continuing	N/A
Remarks															
Electronic Knee Board (EKB) funding realigned to PE 0605215N starting in FY17. FY18 funding received (\$4.208M) in support of Enhanced Emergency Oxygen Supply (EEOS) and Physiological Episode (PE) Protection. FY17 BTR received (\$1.4M) in support of MH-60 Gunner Seat effort under State of the Art Aircrew Systems budget line.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy												Date: February 2018		
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development				Project (Number/Name) 0606 / Aircrew System Development				

Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Travel	WR	Various : Various	1.233	0.045	Dec 2016	0.046	Dec 2017	0.047	Dec 2018	-		0.047	Continuing	Continuing	Continuing
Prior year Mgmt Svcs no longer funded in the FYDP	Various	Various : Various	11.923	0.000		0.000		0.000		-		0.000	0.000	11.923	-
Subtotal			13.156	0.045		0.046		0.047		-		0.047	Continuing	Continuing	N/A

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	126.971	8.746	13.235	20.980	-	20.980	Continuing	Continuing	N/A

Remarks

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PE 0604264N: *Air Crew Systems Development*
Navy

R-1 Line #118

R-1 Program Element (Number/Name)	Program Element Description	Program Element Type	Program Element Status	Program Element Location	Program Element Contact	Program Element Date	Program Element Notes

PE 0604264N / Air Crew Systems
Development

0606 / Aircrew System Development

[illegible]

2019DON - 0604264N - 0606

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PE 0604264N: *Air Crew Systems Development*
Navy

R-1 Line #118

Project (Number/Name)	Start Date	End Date	Duration (Days)	Project Manager	Status	Notes
101	2023-01-01	2023-01-15	14	John Doe	Completed	Project completed successfully.
102	2023-01-16	2023-02-01	16	Jane Smith	In Progress	Project is currently in progress.
103	2023-02-02	2023-02-15	13	John Doe	On Hold	Project is on hold due to resource availability.
104	2023-02-16	2023-03-01	15	Jane Smith	Planned	Project is planned for the future.
105	2023-03-02	2023-03-15	13	John Doe	Completed	Project completed successfully.
106	2023-03-16	2023-03-31	15	Jane Smith	In Progress	Project is currently in progress.
107	2023-04-01	2023-04-15	14	John Doe	On Hold	Project is on hold due to resource availability.
108	2023-04-16	2023-05-01	15	Jane Smith	Planned	Project is planned for the future.
109	2023-05-02	2023-05-15	13	John Doe	Completed	Project completed successfully.
110	2023-05-16	2023-05-31	15	Jane Smith	In Progress	Project is currently in progress.

PE 0604264N / Air Crew Systems
Development

0606 / Aircrew System Development

Enhanced Visual Acuity (EVA)	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				
	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							MS B ▲															MS C ▲							
System Development									PDR ■				CDR ■				TRR ■					SVR/PRR ■							
Test and Evaluation																DT											OT		
Production Milestones							EDM ●															LRIP 1 ●			LRIP 2 ●				
Deliveries														EDM QTY 12 (RDTEN)									LRIP 1 QTY 25 (OPN)		LRIP 2 QTY 100 (OPN)				

2019DON - 0604264N - 0606 EDM Units will be used for Operational Testing

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy

Date: February 2018

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604264N / Air Crew Systems
Development

Project (Number/Name)

0606 / Aircrew System Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Laser Eye Protection (LEP)				
Acquisition Milestones: Milestones: LEP Milestone B	4	2017	4	2017
Acquisition Milestones: Milestones: LEP: Milestone C	3	2021	3	2021
Acquisition Milestones: Milestones: LEP: FRP Decision	1	2022	1	2022
Acquisition Milestones: Milestones: LEP IOC	1	2022	1	2022
System Development: Reviews: SRR 1	1	2017	1	2017
System Development: Reviews: SRR 2	1	2018	1	2018
System Development: Reviews: CDR	2	2019	2	2019
System Development: Reviews: TRR	4	2019	4	2019
System Development: Reviews: SVR/PRR	2	2021	2	2021
System Development: Reviews: PCA	1	2022	1	2022
Test & Evaluation: DT	1	2020	1	2021
Production Milestones: Contract Awards: LEP EDM (RD TEN)	4	2017	4	2017
Production Milestones: Contract Awards: LEP LRIP 1 (OPN)	3	2021	3	2021
Production Milestones: Contract Awards: LEP FRP 1 (OPN)	1	2022	1	2022
Deliveries: LEP EDM Qty 91	2	2019	3	2019
Deliveries: LEP LRIP Qty 350	4	2021	1	2022
Deliveries: LEP FRP 1 Qty 535	2	2022	4	2022
Enhanced Visual Acuity (EVA)				
Acquisition Milestones: Milestones: EVA Milestone B	3	2018	3	2018
Acquisition Milestones: Milestones: EVA Milestone C	2	2022	2	2022
System Development: Reviews: EVA PDR	2	2019	2	2019

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018	
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604264N / Air Crew Systems Development		Project (Number/Name) 0606 / Aircrew System Development
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
System Development: Reviews: EVA CDR		1	2020	1 2020
System Development: Reviews: EVA TRR		1	2021	1 2021
System Development: Reviews: EVA SVR/PRR		1	2022	1 2022
Test and Evaluation: EVA Developmental Testing		3	2020	4 2021
Test and Evaluation: EVA Operational Testing		3	2022	4 2022
Production Milestones: Contract Awards: EDM (RDTEN)		3	2018	3 2018
Production Milestones: Contract Awards: EVA LRIP 1 (OPN)		2	2022	2 2022
Production Milestones: Contract Awards: EVA LRIP 2 (OPN)		4	2022	4 2022
Deliveries: EDM (QTY 12)		1	2020	3 2020
Deliveries: EVA LRIP 1 (QTY 25)		2	2022	3 2022
Deliveries: EVA LRIP 2 (QTY 100)		4	2022	4 2022