Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational

PE 0206629M I (U)Amphibious Assault Vehicle

Systems Development

COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	165.752	53.404	20.690	5.476	-	5.476	13.260	9.838	6.018	6.138	Continuing	Continuing
2938: Amphibious Assault Vehicle	165.752	53.404	20.690	5.476	-	5.476	13.260	9.838	6.018	6.138	Continuing	Continuing

### Note

Navy

NOTE: Prior funding is reflected in P.E. 0206623M/Project 0021.

## A. Mission Description and Budget Item Justification

This Program Element contains the Assault Amphibious Vehicle (AAV) Modifications Line and the terminated AAV Survivability Upgrade (AAV SU) program. The AAV Modifications Line provides life-cycle support to ensure cost-effective combat readiness for the AAV Family of Vehicles (FOV). This is accomplished through engineering changes resulting from continuous review of sub-systems to maintain system supportability, safety, reduce total ownership costs, improve fleet readiness, address obsolescence issues, and improve vehicle survivability and performance. The AAV SU program was designed to increase Personnel-Variant (P-variant) and Command-variant (C-Variant) survivability and force protection capabilities while maintaining the required land and water mobility performance.

The USMC decided to terminate the AAV Survivability Upgrade (AAV SU) program in order to better align to the National Defense Strategy; the remaining AAV SU funding will be utilized for program cancellation, which is expected to take from 12-24 months to complete. Funding to maintain and sustain the legacy AAV fleet will continue herein through the AAV Modifications Line.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	58.728	22.637	15.708	-	15.708
Current President's Budget	53.404	20.690	5.476	-	5.476
Total Adjustments	-5.324	-1.947	-10.232	-	-10.232
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-1.947			
<ul> <li>Congressional Rescissions</li> </ul>	-	_			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-0.215	0.000			
SBIR/STTR Transfer	-1.064	0.000			
<ul> <li>Program Adjustments</li> </ul>	0.000	0.000	-10.202	-	-10.202
<ul> <li>Rate/Misc Adjustments</li> </ul>	0.000	0.000	-0.030	-	-0.030
<ul> <li>Congressional Directed Reductions</li> </ul>	-4.045	-	-	-	-
Adjustments					

PE 0206629M: (U)Amphibious Assault Vehicle

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy		Date: March 2019		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0206629M I (U)Amphibious Assault Vehicle			
Change Summary Explanation The decrease from FY2019 to FY2020 (\$15.214M) is primarily attributed Weapons Station (RWS) Integration Studies/Analyses/Engineering, at FY2020.				

PE 0206629M: *(U)Amphibious Assault Vehicle* Navy

Exhibit R-2A, RDT&E Project J	ustification:	PB 2020 N	lavy							Date: Marc	ch 2019	
Appropriation/Budget Activity 1319 / 7								umber/Name) phibious Assault Vehicle				
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
2938: Amphibious Assault Vehicle	165.752	53.404	20.690	5.476	-	5.476	13.260	9.838	6.018	6.138	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

### Note

The decrease from FY2019 to FY2020 (\$15.214M) is primarily attributed to completion of nonrecurring engineering for Hydraulic Modernization, Remote Weapons Station (RWS) Integration Studies/Analyses/Engineering, and the Common Remotely Operated Weapons System (CROWS) Integration effort in FY2020.

## A. Mission Description and Budget Item Justification

The Assault Amphibious Vehicle (AAV) program provides life-cycle support to ensure cost-effective combat readiness for the AAV Family of Vehicles (FOV). This is accomplished through engineering changes resulting from continuous review of sub-systems to maintain system supportability, safety, reduce total ownership costs, improve fleet readiness, address obsolescence issues, and improve vehicle survivability and performance. The AAV program also included a Survivability Upgrade, which was designed to increase Personnel (P-Variant) and Command (C-Variant) survivability and force protection, while maintaining the required land and water mobility performance.

The USMC decided to terminate the Survivability Upgrade program in order to better align with the National Defense Strategy. Program life-cycle support for the AAV Family of Vehicles (FOV) will continue herein under the AAV Modifications Line.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Product Development	28.250	13.829	3.724	0.000	3.724
Articles:	3	-	-	-	-
<b>Description:</b> This cost element provides funding for design and development engineering for the AAV Modifications Line and the AAV previous Survivability Upgrade program. The AAV Modifications Line provides Nonrecurring Engineering (NRE) and design for AAV safety, obsolescence, and performance improvement engineering for the AAV Family of Vehicles (FOV). The AAV Survivability Upgrade (AAV SU) was designed to improve the legacy AAV Force Protection capability and included improvements such as upgraded underbelly protection, integrated blast mitigating seats, integrated spall liners, protected fuel storage, sponson armor, and selected improvements to maintain required water and land mobility.  The USMC decided to terminate the AAV SU program in order to better align with the National Defense Strategy.					
FY 2019 Plans:					

PE 0206629M: (U)Amphibious Assault Vehicle Navy

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			Date: Marc	ch 2019			
intities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total		
Station (RWS). Indicated the for legacy vehicle Electrical (RGT) and Full-Up System Level Testing (RGT) and Full-Up System Level Testing (RWS) and the (CROWS).  Regration efforts to include C2 software/  Regration efforts to include C2 software/					- Total		
letion of Hydraulic Modernization and s (RWS) and the integration efforts for							
Articles:		2.425	1.403 -	0.000	1.40		
or AAV safety, obsolescence, and ogram's support.							
	PE 0206629M I (U)Amphibious A Vehicle  Intities in Each)  Station (RWS). Ind test for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS).  Integration efforts to include C2 software/  Integration efforts to include C2 software/  Integration efforts to include C2 software/  Integration efforts to include C3 software/  Integration efforts to include C4 software/  Integration efforts for Articles:  Integration efforts for Electrical efforts for	Station (RWS). Inditites in Each)  Station (RWS). Inditites for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Rewapons Station (RWS) and the (CROWS). Regration efforts to include C2 software/  Regration efforts to include C2 software/  Regration of Hydraulic Modernization and (RWS) and the integration efforts for  Articles:  4.000  Articles:  Or AAV safety, obsolescence, and ogram's support.	PE 0206629M I (U)Amphibious Assault Vehicle  Intities in Each)  Station (RWS). Inditest for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS). Inditest for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS). Inditest for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS).  Indities in Each)  FY 2018  FY 2019  Articles:  4.000  2.425  Articles:  Articles:  -  Or AAV safety, obsolescence, and organi's support.	R-1 Program Element (Number/Name) PE 0206629M / (U)Amphibious Assault Vehicle  Intities in Each)  Station (RWS). Ind test for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS).  Pry 2018  FY 2019  FY 2019  FY 2020  Base  FY 2019  FY 2020  Base  Articles:  Articles:  Articles:  Or AAV safety, obsolescence, and ogram's support.	PE 0206629M I (U)Amphibious Assault Vehicle  Intities in Each) Station (RWS). Ind test for legacy vehicle Electrical (RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS). Integration efforts to include C2 software/ Intities in Each)  FY 2018  FY 2019  FY 2020 Base  OCO  Station (RWS)  RGT) and Full-Up System Level Testing  Weapons Station (RWS) and the (CROWS).  Regration efforts to include C2 software/  Regration efforts to include C2 software/  Regration of Hydraulic Modernization and (RWS) and the integration efforts for  Articles:  Articles:  Articles:		

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy	LAGGII ILD			Date: Marc	ch 2019			
Appropriation/Budget Activity 1319 / 7	<b>R-1 Program Element (Number/</b> PE 0206629M <i>I (U)Amphibious As</i> /ehicle		Project (Number/Name) 2938 I Amphibious Assault Vehicle					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in	Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total		
<ul> <li>Continue utilizing the Enterprise Product Lifecycle Management Tool (ePLM) In (IDE) to support analyses of the legacy AAV.</li> <li>Continue to provide material and travel associated with these efforts.</li> </ul>	tegrated Decision Environment							
FY 2020 Base Plans:  - Continue modeling and simulation efforts for the Hydro-Dynamic effort.  - Continue Assault Amphibious Vehicle (AAV) C7 Software Updates.  - Continue to provide technical and engineering services in support of AAV obsol modifications.  - Continue utilizing the Enterprise Product Lifecycle Management Tool (ePLM) In (IDE) to support analyses of the legacy AAV.  - Continue to provide material and travel associated with these efforts.	·							
FY 2020 OCO Plans: N/A								
FY 2019 to FY 2020 Increase/Decrease Statement: The decrease from FY2019 to FY2020 (\$1.022M) reflects a reduction to enginee support for nonrecurring test and evaluation and logistic support for systems inte Modernization, Intercom Modernization, Tactical Communication Modernization,	gration in the areas of Hydraulic							
Title: Test and Evaluation	Articles:	14.583 -	1.357	0.349	0.000	0.349		
<b>Description:</b> Developmental, Operational and Live Fire Test and Evaluation of s modifications and fact of life changes to ensure operational suitability and effective vehicles.								
FY 2019 Plans: - Cancel Personnel-variant Reliability Growth Testing (RGT) for Survivability Upg - Initiate and complete Operational Test & Evaluation/Environmental Electromagn RWS.								
FY 2020 Base Plans: - Initiate Recovery-variant Developmental Test & Evaluation.								
FY 2020 OCO Plans:								

PE 0206629M: *(U)Amphibious Assault Vehicle* Navy

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Exhibit R-2A, RDT&E Project Jus	tification: PB	2020 Navv							Date: Marc	ch 2019				
Appropriation/Budget Activity 1319 / 7					06629M / (L	nent (Numbei I)Amphibious A								
B. Accomplishments/Planned Pro	ograms (\$ in N	Millions, Art	icle Quantit	ies in Each	)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total			
N/A							112010	112010			1000			
FY 2019 to FY 2020 Increase/Dec The decrease from FY2019 to FY20 Evaluation (OT&E)/Environmental I	020 (\$1.008M)	is primarily				tional Test &								
Title: Management and Engineerin	g Technical Se	ervices					6.571	3.079	0.000	0.000	0.000			
						Articles	<i>:</i> -	_	-	-	-			
<b>Description:</b> Management support	services and f	technical su	pport for pro	gram office a	and field acti	vities.								
FY 2019 Plans: - Continue program management s chain and government property management - Continue nonrecurring logistic sup	in support of A	AAV sustainr	nent modific			yses, supply								
FY 2020 Base Plans: - N/A														
<b>FY 2020 OCO Plans:</b> N/A														
FY 2019 to FY 2020 Increase/Dec The decrease from FY2019 to FY20 in management support services are cancellation of the AAV Survivability	020 (\$3.079M) nd technical su	in In-House												
			Accomplis	hments/Plai	ned Progra	ms Subtotals	53.404	20.690	5.476	0.000	5.470			
C. Other Program Funding Summ	narv (\$ in Milli	ons)												
		<u>+</u>	FY 2020	FY 2020	FY 2020					Cost To				
<u>Line Item</u>	FY 2018	FY 2019	Base	<u>000</u>	<u>Total</u>			FY 2023		Complete				
<ul> <li>PMC/2021: AAV Product</li> </ul>	85.362	96.836	39.495	-	39.495	94.300	88.779	39.483	40.269	67.889	1,620.18			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy			Date: March 2019
1	, , , , , , , , , , , , , , , , , , , ,	- , (	umber/Name) phibious Assault Vehicle

## D. Acquisition Strategy

The USMC competitively awarded two contracts in FY 2014 for development efforts in support of upgrading Personnel-variant (P-Variant) Assault Amphibious Vehicles Survivability Upgrade (AAV SU). Down-select to one contractor for manufacture of prototype vehicles occurred in February 2015. Milestone C was achieved in August 2017. The program's main focus was on improving Marine force protection capabilities. To support the required capabilities, the Survivability Upgrade program sought to incorporate Non-Developmental Items (NDI) and/or Commercial off the Shelf (COTS) solutions into the existing P-Variant and C-Variant Reliability, Availability, Maintainability/Rebuild to Standard (RAM/RS) configuration of AAV. The acquisition strategy sought to minimize cost and schedule, and maximize value, technology readiness, and commonality, while ensuring the selected manufacturer met the capability attributes established for the RAM/RS. RDT&E funded competitive designs and contract options for Engineering and Manufacturing Development (EMD). Initial Operational Capability (IOC) was scheduled for FY 2020; however, the USMC decided to terminate the program in order to better align with the National Defense Strategy. Program life-cycle support for the AAV Family of Vehicles (FOV) will continue herein under the AAV Modifications Line.

## **E. Performance Metrics**

Milestone Reviews:

Tactical Communications Modernization (TCM) Engineering Change Proposal (ECP) approval: 1QFY2020

Recovery-variant ECP approval: 2QFY21

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

PE 0206629M / (U)Amphibious Assault 2938 / Amphibious Assault Vehicle

Vehicle

Product Developmen	ıt (\$ in Mi	illions)		FY 2	2018	118 FY 2019		FY 20 2019 Bas							
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	Total Cost	Target Value of Contract
Syst Design & Dev / EMD	C/FFP	MCSC/SAIC : Charleston, SC	110.706	27.366	Feb 2018	12.898	Feb 2019	0.000		-		0.000	Continuing	Continuing	Continuing
Syst Design & Dev	C/FFP	Various : Various	0.000	0.000		0.000		3.478	Feb 2020	-		3.478	0.000	3.478	-
Other Product Development	C/BA	Various : Various	5.144	0.884	Mar 2018	0.931	Mar 2019	0.246	Mar 2020	-		0.246	Continuing	Continuing	Continuing
		Subtotal	115.850	28.250		13.829		3.724		-		3.724	Continuing	Continuing	N/A

#### Remarks

The decrease from FY2019 to FY2020 (\$10.105M) is due to the completion of Hydraulic Modernization and integration and engineering analyses for the Remote Weapon Stations (RWS) and the integration efforts for the Common Remotely Operated Weapons Station (CROWS) in FY2019.

Support (\$ in Million	upport (\$ in Millions)			FY 2	2018	FY 2	2019		2020 ise	FY 2		FY 2020 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	Total Cost	Target Value of Contract
Travel	Various	Various : Various	0.778	0.250	Oct 2017	0.047	Oct 2018	0.047	Oct 2019	-		0.047	Continuing	Continuing	Continuing
In-House Technical Support	Various	Various : Various	17.528	3.750	Feb 2018	2.378	Feb 2019	1.356	Feb 2020	-		1.356	Continuing	Continuing	Continuing
	·	Subtotal	18.306	4.000		2.425		1.403		-		1.403	Continuing	Continuing	N/A

#### Remarks

The decrease from FY2019 to FY2020 (\$1.022M) reflects a reduction to engineering management and technical support for nonrecurring test and evaluation and logistic support for systems integration in the areas of Hydraulic Modernization, Intercom Modernization, Tactical Communication Modernization, and Remote Weapon Stations.

Test and Evaluation	est and Evaluation (\$ in Millions)			FY 2018		FY 2019		FY 2 Ba	2020 ise	FY 2020 OCO		FY 2020 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
Developmental Testing (DT)	Various	Various : Various	7.391	9.590	Feb 2018	0.000		0.349	Feb 2020	-		0.349	Continuing	Continuing	Continuing
Operational Testing (OT)	WR	MCOTEA : Quantico, VA	1.022	0.000		1.357	Mar 2019	0.000		-		0.000	Continuing	Continuing	Continuing

PE 0206629M: *(U)Amphibious Assault Vehicle* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy

Appropriation/Budget Activity

1319 / 7

R-1 Program Element (Number/Name)

PE 0206629M I (U)Amphibious Assault

Vehicle

Project (Number/Name)

Date: March 2019

2938 I Amphibious Assault Vehicle

Test and Evaluation (\$ in Millions)			FY 2	2018	FY 2	2019	FY 2 Ba		FY 2020 FY 2020 OCO 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	Total Cost	Target Value of Contract
Live Fire Test and Evaluation (LFT&E)	Various	Various : Various	3.646	4.993	Mar 2018	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	12.059	14.583		1.357		0.349		-		0.349	Continuing	Continuing	N/A

### Remarks

The decrease from FY2019 to FY2020 (\$1.008M) is primarily attributed to the completion of Operational Test & Evaluation (OT&E)/Environmental Electromagnetic Effects (E3) testing for RWS in FY2019.

Management Service	s (\$ in M	illions)		FY 2	2018	FY 2	2019	FY 2 Ba		FY 2		FY 2020 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	Total Cost	Target Value of Contract
Management Support Svcs	C/FFP	MCSC : Quantico, VA	6.802	5.174	Apr 2018	1.996	Apr 2019	0.000		-		0.000	Continuing	Continuing	Continuing
Engineering and Technical Services	Various	Various : Various	12.735	1.397	Mar 2018	1.083	Mar 2019	0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	19.537	6.571		3.079		0.000		-		0.000	Continuing	Continuing	N/A

#### Remarks

The decrease from FY2019 to FY2020 (\$3.079M) in In-House Technical Support is attributed to a reduction in management support services and technical support for the program office and field activities in light of the cancellation of the AAV Survivability Upgrade.

	Prior Years	FY 2018	FY 2	2019	FY 2 Ba		2020 CO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	165.752	53.404	20.690		5.476	-		5.476	Continuing	Continuing	N/A

#### Remarks

PE 0206629M: *(U)Amphibious Assault Vehicle* Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy Date: March 2019 Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) PE 0206629M I (U)Amphibious Assault 2938 I Amphibious Assault Vehicle 1319 / 7 Vehicle **AAV PB-20 PROGRAM SCHEDULE** FY20 FISCAL YEAR FY18 FY19 FY22 FY23 FY24 Quarter 1 7 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 W 4 1 2 3 4 Hydraulics Design & **AAV Hydraulics** Production and Delivery, 389 5hlp Sets Intergration ECP Modernization Contract PDR CDR pproval Award <u>-</u> **AAV C2 Modernization** (Intercoms) Procure & Install 389 Intercom 5hlp Sets **Tactical Communication** Modernization (TCM) Procure & Install 389 Ship Sets (Radios) Radio Design & Eng Vechicle ECP Approval & Contract Award ntegration Engineering & Integration Analyses Procure & Install 330 RW5 Ship Sets ECP Approval & **Remote Weapons Station** Hatch/Riser Ballistics Test ontract Award (RWS) (CROWS-II) CDR OT/E3 Phase 1 - Lift Analysis ECP DT **Enhanced Stability Analysis** Integration Recovery-variant (AAVR7A1) Procure & Install 32 COTS Cranes **Modernization** CDR PDR ECP Approval & Contract Award

PE 0206629M: (U)Amphibious Assault Vehicle Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy		Date: March 2019
11   1	 - 3 (	umber/Name) phibious Assault Vehicle

# Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 2938					
PDR - Hydraulics Modernization	2	2019	2	2019	
CDR - Hydraulics Modernization	4	2019	4	2019	
ECP Approval - Hydraulics Modernization	2	2020	2	2020	
Tactical Communications Modernization (TCM) Design & Develop	1	2018	1	2019	
TCM Integration & Test	2	2019	4	2019	
TCM - ECP Approval	1	2020	1	2020	
TCM - Contract Award	2	2020	2	2020	
Remote Weapon Station (RWS) - Engineering & Integration Analyses	1	2018	1	2019	
RWS - OT/E3	1	2019	3	2019	
RWS - ECP Approval & Contract Award	3	2019	3	2019	
Recovery-Variant (AAVR7) Modernization - Phase 2 Struct & Stab Analyses	3	2018	4	2019	
CDR - AAVR7 Modernization	4	2019	4	2019	
ECP Integration - AAVR7 Modernization	1	2020	3	2020	
DT - AAVR7 Modernization	4	2020	1	2021	
ECP Approval & Contract Award - AAVR7 Modernization	2	2021	2	2021	