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

Appropriation/Budget Activity

R-1 Program Element (Number/Name) 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 0604201F I PNT Resiliency, Mods, and Improvements

Date: February 2019

Component Development & Prototypes (ACD&P)

	<i>31</i> (,										
COST (\$ in Millions)	Prior			FY 2020	FY 2020	FY 2020					Cost To	Total
COST (\$ in Millions)	Years	FY 2018	FY 2019	Base	oco	Total	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Cost
Total Program Element	-	63.302	81.271	92.600	0.000	92.600	0.000	0.000	0.000	0.000	0.000	237.173
641029: GPS Receiver Development	-	5.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.014
641030: GPS Receiver Development	-	58.288	81.271	92.600	0.000	92.600	0.000	0.000	0.000	0.000	0.000	232.159

Note

In FY 2020, PE 0207325F, Joint Air-to-Surface Standoff Missile (JASSM), Project 675356 M-Code weapons receiver development efforts and associated funding (FY 2020 \$20.2M) were transferred to PE 604201F, PNT Resiliency, Mods, and Improvements (formerly Integrated Avionics Planning and Development), Project 641030 M-Code weapons receiver development in order to realign M-Code weapons receiver development funding for increased transparency to stakeholders and for unity of effort.

In FY 2019, Project 641029 Universal Navigation Interface (UNI) was terminated, and the technical approach was realigned under EGI-M.

PE 604201F Line Item title, PNT Resiliency, Mods, and Improvements changed from Integrated Avionics Planning and Development.

A. Mission Description and Budget Item Justification

PE 0604201, Project 641029 conducted navigation-aircraft interface standard development that included the Universal Navigation Interface (UNI). The Universal Navigation Interface project developed, enhanced, and implemented standardized interfaces in current/future aircraft and mission planning to support integration of EGI receivers independent of Operational Flight Program (OFP) cycles. Standardization of navigation-aircraft interface enables a more affordable approach and faster upgrade capabilities to an ever changing threat to navigation accuracy.

PE 0604201F, Project 641030 covers the development, integration and testing of Enhanced Anti-Jam (EAJ) Military Code (M-Code) GPS receivers for AF and joint weapon systems. This includes updates to weapon mission planning software to support new M-Code and EAJ receiver development. These acquisitions will enable the Air Force to increase its operational PNT resiliency while satisfying the DoD and civil mandates. Fielding of EAJ M-Code weapons requires the development, integration and testing of M-Code receivers across the AFPEO Weapons Portfolio.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver M-Code Development capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 0604201F I PNT Resiliency, Mods, and Improvements Component Development & Prototypes (ACD&P)

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	65.458	14.894	0.000	0.000	0.000
Current President's Budget	63.302	81.271	92.600	0.000	92.600
Total Adjustments	-2.156	66.377	92.600	0.000	92.600
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	0.000			
 Congressional Rescissions 	0.000	0.000			
Congressional Adds	0.000	0.000			
 Congressional Directed Transfers 	0.000	66.377			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	-2.156	0.000			
Other Adjustments	0.000	0.000	92.600	0.000	92.600

Change Summary Explanation

In FY 2018, reduction of \$2.156M for SBIR

In FY 2019, \$66.377M was a requested AF Transfer

In FY 2020, PE 0207325F, Joint Air-to-Surface Standoff Missile (JASSM), Project 675356 M-Code weapons receiver development efforts and associated funding (FY 2020 \$20.2M) were transferred to PE 604201F, PNT Resiliency, Mods, and Improvements (formerly Integrated Avionics Planning and Development), Project 641030 M-Code weapons receiver development in order to realign M-Code weapons receiver development funding for increased transparency to stakeholders and for unity of effort.

In FY 2020 \$72.4M was added to M-Code weapons receiver development to support continued development efforts.

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Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force													
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements Project (Number/Name) 641029 I GPS Receiver 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		
641029: GPS Receiver Development	-	5.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.014		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

Note

In FY 2018, efforts initiated under PE 0305164F, NAVSTAR Global Positioning System (User Equipment) (Space), Project 643833, Military Global Positioning System User Equipment were transferred to PE 0604201F, Integrated Avionics Planning & Development, Project 651029, Aircraft-Store Development for transparency and to realign resources with the execution responsibilities supporting aircraft weapon system platforms.

PE 604201F Line Item title, PNT Resiliency, Mods, and Improvements changed from Integrated Avionics Planning and Development.

A. Mission Description and Budget Item Justification

In FY2019, Project 641029 Universal Navigation Interface (UNI) was terminated, and the technical approach was realigned under EGI-M.

PE 0604201, Project 641029 conducts navigation-aircraft interface standard development to include the Universal Navigation Interface (UNI). The Universal Navigation Interface project develops, enhances, and implements standardized interfaces in current/future aircraft and mission planning to support integration of EGI receivers independent of Operational Flight Program (OFP) cycles. Standardization of navigation-aircraft interface enables a more affordable approach and faster upgrade capabilities to an ever changing threat to navigation accuracy.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: UNI	5.014	0.000	0.000
Description: Conducts navigation-to-aircraft interface standard development to include the Universal Navigation Interface (UNI). Develops standardized software interfaces in aircraft and mission planning to support integration of EGI receiver boxes capable of receiving Modernized GPS signals (M-code).			
FY 2019 Plans: No FY19 Requirement.			
FY 2020 Plans: No FY20 Requirement.			
FY 2019 to FY 2020 Increase/Decrease Statement:			

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements	Project (Number/ 641029 / GPS Red	,	pment
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
N/A			
Accomplishments/Planned Programs Subtota	s 5.014	0.000	0.000

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

N/A

Remarks

In FY 2018, PE 0305164F, NAVSTAR Global Positioning System (User Equipment) (Space), Project 643833, Military Global Positioning System User Equipment partial efforts were transferred to PE 0604201F, Integrated Avionics Planning & Development, Project 641029, STORES - Aircraft Interface for transparency and to realign resources with execution responsibilities that support various aircraft weapon system platforms.

D. Acquisition Strategy

In FY 2019, Project 641029 Universal Navigation Interface (UNI) was terminated, and the technical approach was realigned under EGI-M.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	lumber/Name)
3600 / 4	PE 0604201F I PNT Resiliency, Mods, and	641029 / C	GPS Receiver Development
	Improvements		

Product Developme	ent (\$ in M	illions)		FY 2	2018	FY 2	2019		2020 ase		2020 CO	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
UNI Software Interface Development	TBD	Not specified. : TBD	-	5.014		-		-		-		-	0.000	5.014	-
		Subtotal	-	5.014		-		-		-		-	0.000	5.014	N/A
			Prior					FY	2020	FY:	2020	FY 2020	Cost To	Total	Target Value of

	Prior Years	FY 20	18 FY 2		2020 FY 20 ase OCC		Cost To	Total Cost	Target Value of Contract
Project Cost Totals	-	5.014	0.000	-	-	-	0.000	5.014	N/A

Remarks

In FY 2019, Project 641029 Universal Navigation Interface (UNI) was terminated, and the technical approach was realigned under EGI-M. The funding was reprogrammed from this PE for other priorities under ATR FY 2019-01 in Oct 2018.

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

Exhibit R-4, RDT&E Schedule Profile: PB 20	20 Air F	orce																			D	ate:	: Fel	oruar	y 20	19	
Appropriation/Budget Activity 3600 / 4							R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements Project (Number/Name) 641029 I GPS Receiver II							,													
	FY 2018 FY 20			2019	2019 FY 2020				FY 2021 FY					/ 20	2022			FY 2023			FY 2024		24				
	_	_				_		4	_				. [_	_	_	- [_	-		$\overline{}$	_	_	4	2 2	4
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4 ∣ ′	1 2	2	3	4	1	2	3	4	1 .	2 3	' "
Universal Navigation Interface (UNI)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4 '	1 2	2	3	4	1	2	3	4	1	<u> </u>	<u> </u>

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
3600 / 4	,	, ,	umber/Name) GPS Receiver Development

Schedule Details

	St	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
Universal Navigation Interface (UNI)						
UNI	3	2018	2	2019		

Note

In FY 2019, Project 641029 Universal Navigation Interface (UNI) was terminated, and the technical approach was realigned under EGI-M. The funding was reprogrammed from this PE for other priorities under ATR FY 2019-01 in Oct 2018.

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2020 A	ir Force							Date: Febi	ruary 2019			
Appropriation/Budget Activity 3600 / 4					_)1F <i>I PNT R</i>	t (Number/ Pesiliency, M	•		viject (Number/Name) 030 / GPS Receiver 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		
641030: GPS Receiver Development	-	58.288	81.271	92.600	0.000	92.600	0.000	0.000	0.000	0.000	0.000	232.159		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

Note

PE 604201F Line Item title, PNT Resiliency, Mods, and Improvements changed from Integrated Avionics Planning and Development.

In FY2020, PE 0207325F, Joint Air-to-Surface Standoff Missile (JASSM), Project 675356 M-Code weapons receiver development efforts and associated funding (FY2020 \$20.2M) were transferred to PE 604201F, PNT Resiliency, Mods, and Improvements (formerly Integrated Avionics Planning and Development), Project 641030 M-Code weapons receiver development in order to realign M-Code weapons receiver development funding for increased transparency to stakeholders and for unity of effort.

In FY2018, M-Code efforts initiated under PE 0207325F (Joint Air-Surface Standoff Missile-Extended Range), PE 0604329F (Small Diameter Bomb II), PE 0604270F (Advanced IR Counter Measures), 0604327F (Hard and Deeply Buried Targets System) and PE 0604618F (Joint Direct Attack Munition) were transferred to PE 0604201F, Integrated Avionics Planning & Development, Project 641030, Munitions Receiver Development for transparency to stakeholders and to realign resources with the organization executing the efforts.

A. Mission Description and Budget Item Justification

This munitions receiver development project includes development of a GPS military code (M-code) receiver with enhanced anti-jam (EAJ) and analysis efforts. M-code receivers with EAJ provide advanced positioning, navigation, and timing (PNT) capabilities required for weapons to operate in adversarial anti-access/area denial (A2/AD) environments. M-Code receivers with EAJ also provide increased accuracy, better signal acquisition, and advanced security.

M-code receivers with EAJ capability assures continued weapon system precision and lethality.

Fielding EAJ M-Code weapons requires the development, integration, testing and mission planning of M-Code receivers across the Weapons Portfolio. This will include all systems, subsystems, software, fuzing, and support activities associated with the development and implementation of M-Code receivers.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: M-Code EAJ	58.288	81.271	92.600
Description: M-Code/EAJ receivers provide an enhanced anti-jam capability. M-Code/EAJ receivers provide the capability to operate in increasing adversarial A2/AD jamming environment. M-Code/EAJ receivers also provide increased accuracy, better signal acquisition, and advanced security.			

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements	Project (Number/ 641030 / GPS Red	,	pment
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
FY 2019 Plans: Develop M-code/EAJ receivers across the AFPEO Weapons portfo	olio.			
FY 2020 Plans: Continue development and integration of M-Code/EAJ receivers a	cross the AFPEO Weapons portfolio.			
FY 2019 to FY 2020 Increase/Decrease Statement:				

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

The funding increase is in conjunction with planned receiver development activities for all weapon systems.

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force

			FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	Base	OCO	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total Cost
• RDTE 07 0207325F: Joint Air-to-	1.645	17.594	1.400	-	1.400	14.000	12.000	-	-	0.000	46.639
Surface Standoff Missile (JASSM)											
 RDTE 05 PE 0604329F, BPAC 	16.800	41.243	12.100	-	12.100	11.000	21.000	-	_	0.000	102.143
655191: SDB Increment II											
 RDTE 05 PE 0604270F, 	-	-	-	-	-	-	-	-	_	0.000	0.000
BPAC 655305: <i>Adv</i>											
Infrared Counter Measures											
 RDTE 04 PE 0604327F, BPAC 	-	32.962	2.200	-	2.200	-	-	-	_	0.000	35.162
645341: Direct Strike Penetrators											
 RDTE 05 PE 0604618F, BPAC 	-	-	-	-	-	7.941	-	-	_	0.000	7.941
653891: JDAM Development											

Accomplishments/Planned Programs Subtotals

Remarks

D. Acquisition Strategy

M-Code/EAJ effort uses a Family of Systems approach where the three prime weapons contractors develop receivers capable of operating in any of their Air Force weapons. The receivers are based on a common, internally-developed interface requirements specification (IRS), technology requirement document (TRD), and threat scenarios. This approach uses a combination of contract types based on acquisition phase (TMRR, Development, Production) and risk. The Weapons SPOs share a common development PE to allow flexibility in funding and planning, switching to individual PEs for receiver integration, operational testing, and production. The M-Code/EAJ Weapons Receiver Development effort leverages technology currently under development by the GPS-D MGUE program and will provide the warfighter with unmatched capability to operate in future A2/AD environments.

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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R-1 Line #41

Date: February 2019

58.288

81.271

92,600

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air For	rce	Date: February 2019
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements	Project (Number/Name) 641030 / GPS Receiver Development
E. Performance Metrics	<u>'</u>	
Please refer to the Performance Base Budget Overview Book	for information on how Air Force resources are applied and he	ow those resources are contributing to Air
Force performance goals and most importantly, how they con	tribute to our mission.	

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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

R-1 Program Element (Number/Name)

Date: February 2019

Appropriation/Budget Activity 3600 / 4

PE 0604201F I PNT Resiliency, Mods, and

Project (Number/Name)

Improvements

641030 Î GPS Receiver Development

Product Developmen	t (\$ in M	illions)		FY 2	2018	FY 2	2019		2020 se	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 Complete	Total Cost	Target Value of Contract
Common Weapons M-code Receiver Development (SDB II)	Various	Raytheon : Tucson, AZ	-	17.000	Apr 2018	23.970	Jan 2019	31.900	Oct 2019	-		31.900	Continuing	Continuing	-
Common Weapons M-code Receiver Development (CAAP ASIC)	MIPR	DMEA/Global Foundries : Hopewell Junction, NY	-	-		6.230	Feb 2019	-		-		-	Continuing	Continuing	-
Common Weapons M-code Receiver Development (JDAM/MOP/ SDB I Phase II)	Various	Boeing : St Louis, MO	-	10.600	Jun 2018	12.600	Feb 2019	23.100	Oct 2019	-		23.100	Continuing	Continuing	-
Common Weapons M-code Receiver Development (AJ ASIC)	Various	Collins Aerospace : Cedar Rapids, IA	-	2.488	Sep 2018	5.800	Feb 2019	2.400	Oct 2019	-		2.400	Continuing	Continuing	-
Common Weapons M-code Receiver Development (AJ ASIC / MIPR)	MIPR	DMEA/Global Foundries : Hopewell Junction, NY	-	16.300	Mar 2018	15.800	Feb 2019	4.000	Oct 2019	-		4.000	Continuing	Continuing	-
Common Weapons M-code Receiver Development (Pre-EMD JASSM)	Various	Lockheed Martin : Orlando, FL	-	3.000	May 2018	5.700	Nov 2018	6.100	Oct 2019	-		6.100	Continuing	Continuing	-
Common Weapons M-code Receiver Development (JASSM C+ + Phase II)	Various	Lockheed Martin : Orlando, FL	-	1.800	Jun 2018	5.300	Nov 2018	4.900	Oct 2019	-		4.900	Continuing	Continuing	-
Common Weapons M-code Receiver Development (JASSM MCU)	Various	Lockheed Martin : Orlando, FL	-	2.000	Sep 2018	3.871	Feb 2019	18.200	Oct 2019	-		18.200	Continuing	Continuing	-
		Subtotal	-	53.188		79.271		90.600		-		90.600	Continuing	Continuing	N/A

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity	J	Project (Number/Name)
3600 / 4	PE 0604201F I PNT Resiliency, Mods, and Improvements	641030 I GPS Receiver Development

Management Servic	es (\$ in N	lillions)		FY	2018	FY 2	2019		2020 ise		2020 CO	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
M-Code Receiver Development PMA	Various	Various : TBD	-	5.100	Sep 2018	2.000	Jun 2019	2.000	Jun 2020	-		2.000	Continuing	Continuing	-
		Subtotal	-	5.100		2.000		2.000		-		2.000	Continuing	Continuing	N/A
			Prior Years	FY	2018	FY:	2019		2020 ase		2020 CO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract

81.271

92.600

Remarks

PMA funding supports the required activities for executing this program including but not limited to travel between the weapon offices and all the associated aircraft weapons systems organizations.

58.288

Project Cost Totals

PE 0604201F: PNT Resiliency, Mods, and Improvements Air Force

92.600 Continuing Continuing

N/A

xhibit R-4, RDT&E Schedule Profile: PB 20.	20 Air F	orc	е																		Da	te: F	ebru	ary :	2019	1			
Appropriation/Budget Activity 600 / 4		R-1 Program Element (Number/Name) PE 0604201F I PNT Resiliency, Mods, and Improvements Project (Number/Name) 641030 I GPS Receiver Developme												mer	nt														
		FY	/ 201	18		FY 2	2019)		FY 2	2020		FY	2021			FY 2	2022			FY	2023	3		FY 2	2024	24		
					-		_		-					_		1		_					_		_	2	4		
	1	2	2 3	4	1	2	3	4	1	2	3 4	.	1 2	3	4	1	2	3	4	1	2	3	4	1	2	3	_		
M-Code/EAJ Receivers	1	_ 2	2 3	4	1	2	3	4	1	2	3 4	•	1 2	3	4	1	2	3	4	1	2	! 3	4	1	2	3	_		
M-Code/EAJ Receivers M-Code/EAJ Development/Integration	1		2 3	4	1	2	3	4	1	2	3 4	·	1 2	3 	4	1	2	3	4	1	_ 2	! 3	4	1	2	3			

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
3600 / 4	1 3 1 1 1 1 1 1 1 1 1 1 1	- , \	umber/Name) GPS Receiver Development

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
M-Code/EAJ Receivers				
M-Code/EAJ Development/Integration	1	2018	2	2021
M-Code/EAJ Test and Evaluation	3	2020	4	2021