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

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 1203710F I EO/IR Weather Systems

Component Development & Prototypes (ACD&P)

	•	,										
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	-	0.000	10.000	7.940	0.000	7.940	101.222	156.819	106.231	42.700	Continuing	Continuing
643730: EO/IR Weather System Dev	-	0.000	10.000	7.940	0.000	7.940	101.222	156.819	106.231	42.700	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Based on completion of the Space-Based Environmental Monitoring (SBEM) Joint Requirements Oversight Council (JROC) Memo 092-14, capabilities will be developed to satisfy weather Gap 1 (Cloud Characterization) and Gap 2 (Theater Weather Imagery). Electro-Optical/Infrared (EO/IR) Weather Systems is a component of SBEM efforts to develop capabilities to satisfy weather Gap 1 (Cloud Characterization) and Gap 2 (Theater Weather Imagery). The earliest possible launch options are being integrated in the design for critical gaps.

Based on the SBEM Analysis of Alternatives (AoA) results, the EO/IR Weather Systems initial thrusts will enable:

- 1) DoD use of data collected by civil, international and other DoD space systems;
- 2) Weather System Follow-on Geostationary (WSF-G) efforts to include residual Geostationary Operational Environmental Satellite (GOES) relocation planning and engineering assessment:
- 3) Timely weather collection of WSF EO/IR (WSF-E) Program of Record;
- 4) Explore and/or utilize the use of commercially available data.

Secondary investments may be supported to address weather gaps identified in the SBEM AoA and validated by the JROC.

The current and future space domain demands that space systems be responsive to new and changing threats, and can rapidly integrate new capabilities to make our warfighting force more resilient in a contested battlespace. This agility, survivability, and rapid reconstitution must extend through the entire space warfighting enterprise, to include how we learn about the threat; develop solutions; acquire, test, deploy, train, operate and integrate new systems into the greater system of systems; and ensure our space mission force is ready to defeat a thinking adversary in a complex, multi-domain battlespace. The enterprise will use all of its elements to accelerate decision-making, prototype potential solutions, rapidly integrate decision-making tools and sustain a war-winning capability by delivering multi-domain effects in, from, and through space and cyberspace enabling battle management and resilience options to "fight through."

This program element may include necessary civilian pay expenses required to manage, execute, and deliver EO/IR Weather Systems weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 1206392F and 1206398F.

This program 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.

PE 1203710F: EO/IR Weather Systems

Program Change Summary (\$ in Millions) Previous President's Budget 0.000 10.000 0.000 0.000 0.000 0.000 0.000 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.00		ir Force			Date: F	ebruary 2018	
3. Program Change Summary (\$ in Millions) Previous President's Budget 0.000 10.000 0		IBA 1: Advanced					
Program Change Summary (\$ in Millions) Previous President's Budget 0.000 10.000 0.000 0.000 0.000 0.000 0.000 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.000 7.940 0.00	3600: Research, Development, Test & Evaluation, Air Force . Component Development & Prototypes (ACD&P)	DA 4: Auvariced	PE 1203/10F/E	CONK Weather Systems			
Current President's Budget 0.000 10.000 7.940 0.000 7.940 Total Adjustments 0.000 0.000 7.940 0.000 7.940 Congressional General Reductions 0.000 0.000 Congressional Paccissions 0.000 0.000 Congressional Rescissions 0.000 0.000 Congressional Rescissions 0.000 0.000 Congressional Paccissions 0.000 0.000 Congressional Directed Transfers 0.000 0.000 Selfix's Transfer 0.000 0.000 Selfix's Transfer 0.000 0.000 Change Summary Explanation FY2019: +\$8.000M WSF-E; -\$0.060M Inflation. CAccomplishments/Planned Programs (\$ in Millions) Title: Weather System Follow-On Electro-Optical/Infrared (WSF-E) Description: WSF-E acquisition will follow standard SMC satellite acquisition processes. The Air Force intends to pursue a full apapp 1 (cloud characterization) & 2 (theater weather imagery). Includes program office and other related support activities that may include, but are not limited to studies, technical analysis, and risk reduction activities etc. FY 2018 Plans: Receive proposals and conduct source selection. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD). Continue Enterprise Systems Engineering & Integration and Wanagement Services. Risk reduction and pre-acquisition advivities leading up to contract award in FY 2020 for WSF-E. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. These activities may include, but are not limited to program office support, studies, technical analysis, prototyping, etc.	B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 T	otal
Total Adjustments Congressional General Reductions Congressional Directed Reductions Congressional Directed Reductions Congressional Adds Congressional Adds Congressional Directed Transfers Congressional Congressional Congressional Congress Secondary Weather Gapa Directed Space domain. These activities and Request for Proposal (RETOC) Initial Capabilities Document (ICD). Continue Enterprise Systems Engineering & Integration and Wanagement Services. Risk reduction and pre-acquisition activities leading up to contract award in FY 2020 for WSF-E. Rapidly re	Previous President's Budget	0.000	10.000	0.000	0.000	0.	.000
Congressional General Reductions Congressional Directed Reductions Congressional Precisions Congressional Rescissions Congressional Rescissions Congressional Rescissions Congressional Rescissions Congressional Rescissions Congressional Adds Congressional Directed Transfers Congressional Directed	Current President's Budget	0.000	10.000	7.940	0.000	7.	.940
Congressional Directed Reductions Congressional Rescissions Congressional Rescissions Congressional Adds Congressional Directed Transfers Congressional Congres	Total Adjustments	0.000	0.000	7.940	0.000	7.	.940
Congressional Rescissions Congressional Directed Transfers Congre	 Congressional General Reductions 	0.000	0.000				
Congressional Directed Transfers 0.000 0.000 Reprogrammings 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000	 Congressional Directed Reductions 	0.000	0.000				
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FY2019: +\$8.000M WSF-E; -\$0.060M Inflation. C. Accomplishments/Planned Programs (\$ in Millions) FY 2017 FY 2018 FY 2018 FY 2017 FY 2018 FY 2018 FY 2017 FY 2018 FY 2018 FY 2018 FY 2017 FY 2018 FY 2018 FY 2019 Jone Secription: WSF-E acquisition will follow standard SMC satellite acquisition processes. The Air Force intends to pursue a full and open competition with industry aimed at procuring the most affordable and capable WSF-E system to meet both capability agaps 1 (cloud characterization) & 2 (theater weather imagery). Includes program office and other related support activities that may include, but are not limited to studies, technical analysis, and risk reduction activities etc. FY 2018 Plans: Risk reduction, pre-acquisition activities and Request for Proposal (RFP) for WSF-E. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD). FY 2019 Plans: Receive proposals and conduct source selection. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD). Continue Enterprise Systems Engineering & Integration and Management Services. Risk reduction and pre-acquisition activities leading up to contract award in FY 2020 for WSF-E. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. These activities may include, but are not limited to program office support, studies, technical analysis, prototyping, etc.	 Other Adjustments 	0.000	0.000	7.940	0.000	7.	.940
Description: WSF-E acquisition will follow standard SMC satellite acquisition processes. The Air Force intends to pursue a full and open competition with industry aimed at procuring the most affordable and capable WSF-E system to meet both capability gaps 1 (cloud characterization) & 2 (theater weather imagery). Includes program office and other related support activities that may include, but are not limited to studies, technical analysis, and risk reduction activities etc. FY 2018 Plans: Risk reduction, pre-acquisition activities and Request for Proposal (RFP) for WSF-E. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD). FY 2019 Plans: Receive proposals and conduct source selection. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD). Continue Enterprise Systems Engineering & Integration and Management Services. Risk reduction and pre-acquisition activities leading up to contract award in FY 2020 for WSF-E. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. These activities may include, but are not limited to program office support, studies, technical analysis, prototyping, etc.		/SF-E)				1 1 2010	
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Receive proposals and conduct source selection. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD). Continue Enterprise Systems Engineering & Integration and Management Services. Risk reduction and pre-acquisition activities leading up to contract award in FY 2020 for WSF-E. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. These activities may include, but are not limited to program office support, studies, technical analysis, prototyping, etc.	and open competition with industry aimed at procuring the magaps 1 (cloud characterization) & 2 (theater weather imagery	ntellite acquisition post affordable and r). Includes progra	capable WSF-E s m office and other	system to meet both capabil	full	9.500	7.9
TV 2048 to EV 2040 Ingresses/Degreese Statements	and open competition with industry aimed at procuring the m gaps 1 (cloud characterization) & 2 (theater weather imagery may include, but are not limited to studies, technical analysis FY 2018 Plans: Risk reduction, pre-acquisition activities and Request for Pro	ntellite acquisition post affordable and risk reduction posal (RFP) for W	capable WSF-E s m office and other n activities etc. SF-E. Continue to	system to meet both capabil related support activities the address secondary weather	full ity at	9.500	7.9
FY 2018 to FY 2019 Increase/Decrease Statement:	and open competition with industry aimed at procuring the m gaps 1 (cloud characterization) & 2 (theater weather imagery may include, but are not limited to studies, technical analysis FY 2018 Plans: Risk reduction, pre-acquisition activities and Request for Progaps identified in the Meteorological and Oceanographic (MIFY 2019 Plans: Receive proposals and conduct source selection. Continue and Oceanographic (METOC) Initial Capabilities Document (Management Services. Risk reduction and pre-acquisition acrespond to implement system resiliency and situational aware	ost affordable and (). Includes progra (, and risk reduction posal (RFP) for WETOC) Initial Capatto address second (ICD). Continue Erectivities leading up eness necessary to	capable WSF-E sm office and other n activities etc. SF-E. Continue to bilities Document ary weather gaps terprise Systems to contract award o operate in the contract in the contract are small contract award on the contract award or operate in the contract award o	system to meet both capability related support activities the address secondary weather (ICD). identified in the Meteorolog Engineering & Integration at in FY 2020 for WSF-E. Rapontested space domain. The	full ity at er ical nd oidly	9.500	7.94

PE 1203710F: EO/IR Weather Systems Air Force

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

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 1203710F I EO/IR Weather Systems

Component Development & Prototypes (ACD&P)

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
FY 2019 decreased compared to FY 2018 by \$1.560M. Justification for this decrease is described in plans above.			
Title: Weather System Follow-On Geostationary (WSF-G)	0.000	0.500	-
Description: Residual Geostationary Operational Environmental Satellite (GOES) Relocation is a Department of Defense (DoD) weather mitigation plan to address Space-based Environmental Monitoring (SBEM) Weather Gaps 1 (Cloud Characterization) and Gap 2 (Theater Weather Imagery) requirements over the Indian Ocean region. The requirements have been validated by the JROC Memo 033-16. The program will leverage a spare National Oceanic and Atmospheric Agency (NOAA) on-orbit geostationary asset for the DoD use, in order to provide timely and reliable high-quality electro-optical/infrared (EO/IR) remote sensing capability that will address the critical weather data needs over the Central Command (CENTCOM) Area of Responsibility (AoR). Includes program office and other related support activities that may include, but are not limited to studies, technical analysis, and risk reduction activities etc. Continue to address secondary weather gaps identified in the Meteorological and Oceanographic (METOC) Initial Capabilities Document (ICD).			
FY 2018 Plans: Risk reduction, pre-acquisition activities and Request for Proposal (RFP) release for WSF-G.			
FY 2018 to FY 2019 Increase/Decrease Statement: FY 2019 decrease compared to FY 2018 by \$0.500M. Justification for this decreased is described in plans above.			
Accomplishments/Planned Programs Subtotals	0.000	10.000	7.94

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

			<u>FY 2019</u>	FY 2019	<u>FY 2019</u>					Cost To	
<u>Line Item</u>	FY 2017	FY 2018	Base	<u>000</u>	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Total Cost
SPAF 01 SPCMOD: Space Mods	-	18.620	63.737	-	63.737	-	-	-	-	0.000	82.357

Remarks

Reflects PE 1203710F EO/IR Weather Systems portion of shared P-1 line SPCMOD.

E. Acquisition Strategy

The acquisition strategy for WSF-E and WSF-G is based on validated SBEM AoA and JROC Memo 033-16 and subsequent acquisition strategy development activities that will be conducted in FY 2018. The program office successfully completed a Materiel Development Decision with the Air Force Program Executive Officer of Space (AFPEO/SP), 3 May 17; and WSF-E Milestone A event with the Milestone Decision Authority (AFPEO/SP) and signed Acquisition Decision Memorandum, 19 May 17.

PE 1203710F: EO/IR Weather Systems

Air Force Page 3 of 7

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force		Date: February 2018
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 1203710F I EO/IR Weather Systems	·
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information of Force performance goals and most importantly, how they contribute to our mis		e resources are contributing to Air

PE 1203710F: *EO/IR Weather Systems* Air Force

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Air F	orce								Date:	February	2018	
Appropriation/Budg 3600 / 4	et Activity	1				I	•	•	lumber/Na eather Sys	•		(Numbe		System De	<i>9V</i>
Product Developme	ent (\$ in M	illions)		FY 2	2017	FY 2	2018		2019 ase		2019 CO	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	Total Cost	Target Value of Contract
Pre-Acquisition Activities	Various	Various : Various	-	0.000		9.000	Feb 2018	7.940	Feb 2019	-		7.940	Continuing	Continuing	-
		Subtotal	-	0.000		9.000		7.940		-		7.940	Continuing	Continuing	N/A
Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	2018		2019 ase		2019 CO	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	Total Cost	Target Value of Contract
Other Support	Various	Various : Various	-	0.000		1.000	Oct 2017	-		-		-	Continuing	Continuing	-
		Subtotal	-	0.000		1.000		-		-		-	Continuing	Continuing	N/A
			Prior Years	FY 2	2017	FY 2	2018		2019 ase		2019 CO	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
						1					1	7.940	1		N/A

Remarks

PE 1203710F: *EO/IR Weather Systems* Air Force

UNCLASSIFIED

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khibit R-4, RDT&E Schedule Profile: PB 2019 A	ir For	се																		Dat	te: F	ebru	ary 2	2018	3	
ppropriation/Budget Activity 00 / 4							R-1 Program Element (Number/Name) PE 1203710F I EO/IR Weather Systems					Project (Number/Name) 643730 / EO/IR Weather System D							n De	ev						
	F	Y 20	17		FY 2	2018		FY	2019)		FY 2	020		F	Y 2	021			FY	202	2		FY 2	2023	 3
	1	2	3 4	1	2	3	4 1	2	3	4	1	2	3 4	L	1	2	3	4	1	2	3	4	1	2	3	4
EO/IR Weather Systems																										
WSF EO/IR System Pre-Acquisition Activities																										
WSF EO/IR System Development RFP Release																										
WSF EO/IR System Source Selection																										
WSF EO/IR System Contract Award																										_
WSF EO/IR System Preliminary Design Review																										
WSF EO/IR System Milestone B																										
WSF EO/IR System Critical Design Review																										
WSF EO/IR System Production and Fielding																										
WSF EO/IR System Integration and Testing																										

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force		Date: February 2018
	,	Project (Number/Name)
3600 / 4	PE 1203710F I EO/IR Weather Systems	643730 I EO/IR Weather System Dev

Schedule Details

	Sta	art	En	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
EO/IR Weather Systems				
WSF EO/IR System Pre-Acquisition Activities	1	2018	4	2018
WSF EO/IR System Development RFP Release	1	2019	1	2019
WSF EO/IR System Source Selection	1	2019	1	2020
WSF EO/IR System Contract Award	1	2020	1	2020
WSF EO/IR System Preliminary Design Review	1	2020	1	2021
WSF EO/IR System Milestone B	1	2021	1	2022
WSF EO/IR System Critical Design Review	1	2022	2	2022
WSF EO/IR System Production and Fielding	2	2022	1	2023
WSF EO/IR System Integration and Testing	2	2023	4	2023

PE 1203710F: EO/IR Weather Systems

Air Force