

UNCLASSIFIED

Department of Defense
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Summary Recap of Budget Activities -----	FY 2019 (Base + OCO) -----	FY 2020 Base Enacted -----	FY 2020 Emergency -----	FY 2020 OCO Enacted -----	FY 2020 Total Enacted (Base+Emerg+ OCO) -----
Basic Research	545,223	549,761			549,761
Applied Research	1,482,434	1,656,126			1,656,126
Advanced Technology Development	876,008	1,066,453			1,066,453
Advanced Component Development & Prototypes	6,386,187	8,244,911		44,335	8,289,246
System Development & Demonstration	5,377,043	6,690,641			6,690,641
Management Support	3,769,578	2,878,071			2,878,071
Operational Systems Development	22,982,541	24,480,992		83,913	24,564,905
Software & Digital Technology Pilot Programs					
Total Research, Development, Test & Evaluation	41,419,014	45,566,955		128,248	45,695,203

UNCLASSIFIED

Department of Defense
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Summary Recap of Budget Activities -----	FY 2021 Base -----	FY 2021 OCO for Base Requirements -----	FY 2021 OCO for Direct War and Enduring Costs -----	FY 2021 Total OCO -----	FY 2021 Total (Base + OCO) -----
Basic Research	492,294				492,294
Applied Research	1,540,623				1,540,623
Advanced Technology Development	778,548				778,548
Advanced Component Development & Prototypes	9,049,227				9,049,227
System Development & Demonstration	6,359,375				6,359,375
Management Support	3,149,790				3,149,790
Operational Systems Development	26,199,822		5,304	5,304	26,205,126
Software & Digital Technology Pilot Programs	149,742				149,742
Total Research, Development, Test & Evaluation	47,719,421		5,304	5,304	47,724,725

UNCLASSIFIED

Department of Defense
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
	-----	-----	-----	-----	-----
Summary Recap of FYDP Programs					

Strategic Forces	933,653	846,784			846,784
General Purpose Forces	3,020,691	3,748,342		5,200	3,753,542
Intelligence and Communications	1,530,574	1,340,238			1,340,238
Mobility Forces	894,433	936,221			936,221
Research and Development	13,189,310	14,528,474		26,450	14,554,924
Central Supply and Maintenance	93,964	37,505			37,505
Training Medical and Other	2,488	8,542			8,542
Administration and Associated Activities	117,431	90,730			90,730
Support of Other Nations	3,866	4,071			4,071
Space	4,800,166	6,240,052		17,885	6,257,937
Classified Programs	16,832,438	17,785,996		78,713	17,864,709
Total Research, Development, Test & Evaluation	41,419,014	45,566,955		128,248	45,695,203

UNCLASSIFIED

Department of Defense
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
	-----	-----	-----	-----	-----
Summary Recap of FYDP Programs					

Strategic Forces	1,065,581				1,065,581
General Purpose Forces	4,019,405		5,304	5,304	4,024,709
Intelligence and Communications	1,090,263				1,090,263
Mobility Forces	1,048,447				1,048,447
Research and Development	14,101,988				14,101,988
Central Supply and Maintenance	95,633				95,633
Training Medical and Other	7,073				7,073
Administration and Associated Activities	78,515				78,515
Support of Other Nations	3,599				3,599
Space	6,798,195				6,798,195
Classified Programs	19,410,722				19,410,722
Total Research, Development, Test & Evaluation	47,719,421		5,304	5,304	47,724,725

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Summary Recap of Budget Activities -----	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
-----	-----	-----	-----	-----	-----
Basic Research	545,223	549,761			549,761
Applied Research	1,482,434	1,656,126			1,656,126
Advanced Technology Development	876,008	1,066,453			1,066,453
Advanced Component Development & Prototypes	6,386,187	8,244,911		44,335	8,289,246
System Development & Demonstration	5,377,043	6,690,641			6,690,641
Management Support	3,769,578	2,878,071			2,878,071
Operational Systems Development	22,982,541	24,480,992		83,913	24,564,905
Total Research, Development, Test & Evaluation	41,419,014	45,566,955		128,248	45,695,203
Summary Recap of FYDP Programs -----					
Strategic Forces	933,653	846,784			846,784
General Purpose Forces	3,020,691	3,748,342		5,200	3,753,542
Intelligence and Communications	1,530,574	1,340,238			1,340,238
Mobility Forces	894,433	936,221			936,221
Research and Development	13,189,310	14,528,474		26,450	14,554,924
Central Supply and Maintenance	93,964	37,505			37,505
Training Medical and Other	2,488	8,542			8,542
Administration and Associated Activities	117,431	90,730			90,730
Support of Other Nations	3,866	4,071			4,071

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
Summary Recap of Budget Activities -----					
Basic Research	492,294				492,294
Applied Research	1,409,749				1,409,749
Advanced Technology Development	778,548				778,548
Advanced Component Development & Prototypes	7,737,916				7,737,916
System Development & Demonstration	2,615,359				2,615,359
Management Support	2,891,280				2,891,280
Operational Systems Development	21,466,680		5,304	5,304	21,471,984
Total Research, Development, Test & Evaluation	37,391,826		5,304	5,304	37,397,130
Summary Recap of FYDP Programs -----					
Strategic Forces	1,065,581				1,065,581
General Purpose Forces	4,019,405		5,304	5,304	4,024,709
Intelligence and Communications	1,090,263				1,090,263
Mobility Forces	1,048,447				1,048,447
Research and Development	14,101,988				14,101,988
Central Supply and Maintenance	95,633				95,633
Training Medical and Other	7,073				7,073
Administration and Associated Activities	78,515				78,515
Support of Other Nations	3,599				3,599

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-1A

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Summary Recap of Budget Activities	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
-----	-----	-----	-----	-----	-----
Space	4,800,166	6,240,052		17,885	6,257,937
Classified Programs	16,832,438	17,785,996		78,713	17,864,709
Total Research, Development, Test & Evaluation	41,419,014	45,566,955		128,248	45,695,203

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
Summary Recap of Budget Activities					
-----	-----	-----	-----	-----	-----
Space	103,466				103,466
Classified Programs	15,777,856				15,777,856
Total Research, Development, Test & Evaluation	37,391,826		5,304	5,304	37,397,130

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
1	0601102F	Defense Research Sciences	01	374,047	356,107			356,107 U
2	0601103F	University Research Initiatives	01	159,073	178,859			178,859 U
3	0601108F	High Energy Laser Research Initiatives	01	12,103	14,795			14,795 U
		Basic Research		-----	-----	-----	-----	-----
				545,223	549,761			549,761
4	0602020F	Future AF Capabilities Applied Research	02					U
5	0602102F	Materials	02	172,109	215,851			215,851 U
6	0602201F	Aerospace Vehicle Technologies	02	150,625	157,724			157,724 U
7	0602202F	Human Effectiveness Applied Research	02	109,598	134,795			134,795 U
8	0602203F	Aerospace Propulsion	02	202,638	226,775			226,775 U
9	0602204F	Aerospace Sensors	02	168,897	219,912			219,912 U
10	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02	86,165				U
11	0602298F	Science and Technology Management - Major Headquarters Activities	02	8,288	7,968			7,968 U
12	0602602F	Conventional Munitions	02	100,573	142,772			142,772 U
13	0602605F	Directed Energy Technology	02	129,579	124,379			124,379 U
14	0602788F	Dominant Information Sciences and Methods	02	182,221	216,062			216,062 U
15	0602890F	High Energy Laser Research	02	40,400	48,221			48,221 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
1	0601102F	Defense Research Sciences	01	315,348				315,348	U
2	0601103F	University Research Initiatives	01	161,861				161,861	U
3	0601108F	High Energy Laser Research Initiatives	01	15,085				15,085	U
		Basic Research		-----	-----	-----	-----	-----	
				492,294				492,294	
4	0602020F	Future AF Capabilities Applied Research	02	100,000				100,000	U
5	0602102F	Materials	02	140,781				140,781	U
6	0602201F	Aerospace Vehicle Technologies	02	349,225				349,225	U
7	0602202F	Human Effectiveness Applied Research	02	115,222				115,222	U
8	0602203F	Aerospace Propulsion	02						U
9	0602204F	Aerospace Sensors	02	211,301				211,301	U
10	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02						U
11	0602298F	Science and Technology Management - Major Headquarters Activities	02	8,926				8,926	U
12	0602602F	Conventional Munitions	02	132,425				132,425	U
13	0602605F	Directed Energy Technology	02	128,113				128,113	U
14	0602788F	Dominant Information Sciences and Methods	02	178,668				178,668	U
15	0602890F	High Energy Laser Research	02	45,088				45,088	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-3A

UNCLASSIFIED

Department of the Air Force
FY 2021 President's Budget
Exhibit R-1 FY 2021 President's Budget
Total Obligational Authority
(Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
16	1206601F	Space Technology	02	131,341	161,667			161,667 U
		Applied Research		1,482,434	1,656,126			1,656,126
17	0603030F	AF Foundational Development/Demos	03					U
18	0603032F	Future AF Integrated Technology Demos	03					U
19	0603033F	Next Gen Platform Dev/Demo	03					U
20	0603034F	Persistent Knowledge, Awareness, & C2 Tech	03					U
21	0603035F	Next Gen Effects Dev/Demos	03					U
22	0603112F	Advanced Materials for Weapon Systems	03	44,099	60,086			60,086 U
23	0603199F	Sustainment Science and Technology (S&T)	03	13,353	16,249			16,249 U
24	0603203F	Advanced Aerospace Sensors	03	41,462	42,292			42,292 U
25	0603211F	Aerospace Technology Dev/Demo	03	115,406	127,949			127,949 U
26	0603216F	Aerospace Propulsion and Power Technology	03	140,247	170,973			170,973 U
27	0603270F	Electronic Combat Technology	03	53,704	48,408			48,408 U
28	0603401F	Advanced Spacecraft Technology	03	65,727	80,525			80,525 U
29	0603444F	Mauai Space Surveillance System (MSSS)	03	10,268	11,878			11,878 U
30	0603456F	Human Effectiveness Advanced Technology Development	03	32,624	37,542			37,542 U
31	0603601F	Conventional Weapons Technology	03	191,704	225,817			225,817 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
16	1206601F	Space Technology	02						U
		Applied Research		1,409,749				1,409,749	
17	0603030F	AF Foundational Development/Demos	03	103,280				103,280	U
18	0603032F	Future AF Integrated Technology Demos	03	157,619				157,619	U
19	0603033F	Next Gen Platform Dev/Demo	03	199,556				199,556	U
20	0603034F	Persistent Knowledge, Awareness, & C2 Tech	03	102,276				102,276	U
21	0603035F	Next Gen Effects Dev/Demos	03	215,817				215,817	U
22	0603112F	Advanced Materials for Weapon Systems	03						U
23	0603199F	Sustainment Science and Technology (S&T)	03						U
24	0603203F	Advanced Aerospace Sensors	03						U
25	0603211F	Aerospace Technology Dev/Demo	03						U
26	0603216F	Aerospace Propulsion and Power Technology	03						U
27	0603270F	Electronic Combat Technology	03						U
28	0603401F	Advanced Spacecraft Technology	03						U
29	0603444F	Maui Space Surveillance System (MSSS)	03						U
30	0603456F	Human Effectiveness Advanced Technology Development	03						U
31	0603601F	Conventional Weapons Technology	03						U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
32	0603605F	Advanced Weapons Technology	03	39,438	37,404			37,404 U
33	0603680F	Manufacturing Technology Program	03	62,187	130,916			130,916 U
34	0603788F	Battlespace Knowledge Development and Demonstration	03	58,369	56,414			56,414 U
35	0604445F	Wide Area Surveillance	03		20,000			20,000 U
36	0303467F	SENSR Spectrum Pipeline SRF	03	7,265				U
37	0303567F	Non-SENSR Spectrum Pipeline SRF	03	155				U
		Advanced Technology Development		876,008	1,066,453			1,066,453
38	0603260F	Intelligence Advanced Development	04	5,568	5,672			5,672 U
39	0603742F	Combat Identification Technology	04	17,561	32,085			32,085 U
40	0603790F	NATO Research and Development	04	2,221	4,955			4,955 U
41	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	24,994	30,969			30,969 U
42	0603859F	Pollution Prevention - Dem/Val	04	193	3,000			3,000 U
43	0604002F	Air Force Weather Services Research	04		772			772 U
44	0604003F	Advanced Battle Management System (ABMS)	04		8,000			8,000 U
45	0604004F	Advanced Engine Development	04	696,099	671,442			671,442 U
46	0604015F	Long Range Strike - Bomber	04	2,189,945	2,982,499			2,982,499 U
47	0604032F	Directed Energy Prototyping	04	48,316	44,000			44,000 U
48	0604033F	Hypersonics Prototyping	04	494,485	576,000			576,000 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
FY 2021 President's Budget
Exhibit R-1 FY 2021 President's Budget
Total Obligational Authority
(Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
32	0603605F	Advanced Weapons Technology	03						U
33	0603680F	Manufacturing Technology Program	03						U
34	0603788F	Battlespace Knowledge Development and Demonstration	03						U
35	0604445F	Wide Area Surveillance	03						U
36	0303467F	SENSR Spectrum Pipeline SRF	03						U
37	0303567F	Non-SENSR Spectrum Pipeline SRF	03						U
		Advanced Technology Development		778,548				778,548	
38	0603260F	Intelligence Advanced Development	04	4,320				4,320	U
39	0603742F	Combat Identification Technology	04	26,396				26,396	U
40	0603790F	NATO Research and Development	04	3,647				3,647	U
41	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	32,959				32,959	U
42	0603859F	Pollution Prevention - Dem/Val	04						U
43	0604002F	Air Force Weather Services Research	04	869				869	U
44	0604003F	Advanced Battle Management System (ABMS)	04	302,323				302,323	U
45	0604004F	Advanced Engine Development	04	636,495				636,495	U
46	0604015F	Long Range Strike - Bomber	04	2,848,410				2,848,410	U
47	0604032F	Directed Energy Prototyping	04	20,964				20,964	U
48	0604033F	Hypersonics Prototyping	04	381,862				381,862	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-5A

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
49	0604201F	PNT Resiliency, Mods, and Improvements	04	86,445	124,600			124,600 U
50	0604257F	Advanced Technology and Sensors	04	34,585	23,145			23,145 U
51	0604288F	National Airborne Ops Center (NAOC) Recap	04	7,168	12,669			12,669 U
52	0604317F	Technology Transfer	04	18,754	37,614			37,614 U
53	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	41,259	113,121			113,121 U
54	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	57,671	56,325			56,325 U
55	0604776F	Deployment & Distribution Enterprise R&D	04	27,301	28,034			28,034 U
56	0604858F	Tech Transition Program	04	163,132	288,476		26,450	314,926 U
57	0605230F	Ground Based Strategic Deterrent	04	401,244	557,495			557,495 U
58	0207100F	Light Attack Armed Reconnaissance (LAAR) Squadrons	04		2,000			2,000 U
59	0207110F	Next Generation Air Dominance	04	413,938	905,000			905,000 U
60	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	24,716	23,190			23,190 U
61	0207522F	Airbase Air Defense Systems (ABADS)	04					U
62	0208099F	Unified Platform (UP)	04	28,327	10,000			10,000 U
63	0305236F	Common Data Link Executive Agent (CDL EA)	04	41,880	36,910			36,910 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
49	0604201F	PNT Resiliency, Mods, and Improvements	04						U
50	0604257F	Advanced Technology and Sensors	04	24,747				24,747	U
51	0604288F	National Airborne Ops Center (NAOC) Recap	04	76,417				76,417	U
52	0604317F	Technology Transfer	04	3,011				3,011	U
53	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	52,921				52,921	U
54	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	69,783				69,783	U
55	0604776F	Deployment & Distribution Enterprise R&D	04	25,835				25,835	U
56	0604858F	Tech Transition Program	04	219,252				219,252	U
57	0605230F	Ground Based Strategic Deterrent	04	1,524,759				1,524,759	U
58	0207100F	Light Attack Armed Reconnaissance (LAAR) Squadrons	04						U
59	0207110F	Next Generation Air Dominance	04	1,044,089				1,044,089	U
60	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	19,356				19,356	U
61	0207522F	Airbase Air Defense Systems (ABADS)	04	8,737				8,737	U
62	0208099F	Unified Platform (UP)	04	5,990				5,990	U
63	0305236F	Common Data Link Executive Agent (CDL EA)	04	39,293				39,293	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-6A

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
64	0305251F	Cyberspace Operations Forces and Force Support	04		35,000			35,000 U
65	0305601F	Mission Partner Environments	04	9,694	8,550			8,550 U
66	0306250F	Cyber Operations Technology Development	04	237,393	202,364			202,364 U
67	0306415F	Enabled Cyber Activities	04	15,728	16,632			16,632 U
68	0401310F	C-32 Executive Transport Recapitalization	04					U
69	0901410F	Contracting Information Technology System	04	16,998	20,830			20,830 U
70	1203164F	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04	236,786	320,598			320,598 U
71	1203710F	EO/IR Weather Systems	04	7,786	125,964			125,964 U
72	1206422F	Weather System Follow-on	04	128,600	205,660			205,660 U
73	1206425F	Space Situation Awareness Systems	04	32,351	29,776			29,776 U
74	1206427F	Space Systems Prototype Transitions (SSPT)	04		142,045			142,045 U
75	1206434F	Midterm Polar MILSATCOM System	04	370,353				U
76	1206438F	Space Control Technology	04	68,604	58,231			58,231 U
77	1206730F	Space Security and Defense Program	04	45,542	56,385			56,385 U
78	1206760F	Protected Tactical Enterprise Service (PTES)	04	45,009	105,003			105,003 U
79	1206761F	Protected Tactical Service (PTS)	04	28,754	163,694			163,694 U
80	1206855F	Evolved Strategic SATCOM (ESS)	04	28,498	167,206			167,206 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
64	0305251F	Cyberspace Operations Forces and Force Support	04						U
65	0305601F	Mission Partner Environments	04	11,430				11,430	U
66	0306250F	Cyber Operations Technology Development	04	259,823				259,823	U
67	0306415F	Enabled Cyber Activities	04	10,560				10,560	U
68	0401310F	C-32 Executive Transport Recapitalization	04	9,908				9,908	U
69	0901410F	Contracting Information Technology System	04	8,662				8,662	U
70	1203164F	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04						U
71	1203710F	EO/IR Weather Systems	04						U
72	1206422F	Weather System Follow-on	04						U
73	1206425F	Space Situation Awareness Systems	04						U
74	1206427F	Space Systems Prototype Transitions (SSPT)	04	8,787				8,787	U
75	1206434F	Midterm Polar MILSATCOM System	04						U
76	1206438F	Space Control Technology	04						U
77	1206730F	Space Security and Defense Program	04	56,311				56,311	U
78	1206760F	Protected Tactical Enterprise Service (PTES)	04						U
79	1206761F	Protected Tactical Service (PTS)	04						U
80	1206855F	Evolved Strategic SATCOM (ESS)	04						U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-7A

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
81	1206857F	Space Rapid Capabilities Office	04	288,289	9,000		17,885	26,885 U
		Advanced Component Development & Prototypes		6,386,187	8,244,911		44,335	8,289,246
82	0604200F	Future Advanced Weapon Analysis & Programs	05	262	5,000			5,000 U
83	0604201F	PNT Resiliency, Mods, and Improvements	05	45,363	142,782			142,782 U
84	0604222F	Nuclear Weapons Support	05	4,311	4,406			4,406 U
85	0604270F	Electronic Warfare Development	05	1,839	2,066			2,066 U
86	0604281F	Tactical Data Networks Enterprise	05	242,328	189,631			189,631 U
87	0604287F	Physical Security Equipment	05	13,893	9,700			9,700 U
88	0604329F	Small Diameter Bomb (SDB) - EMD	05	75,345	45,241			45,241 U
89	0604429F	Airborne Electronic Attack	05	5,948				U
90	0604602F	Armament/Ordnance Development	05	44,788	28,043			28,043 U
91	0604604F	Submunitions	05	2,989	3,045			3,045 U
92	0604617F	Agile Combat Support	05	22,739	26,944			26,944 U
93	0604618F	Joint Direct Attack Munition	05					U
94	0604706F	Life Support Systems	05	10,334	14,624			14,624 U
95	0604735F	Combat Training Ranges	05	42,383	52,365			52,365 U
96	0604800F	F-35 - EMD	05	67,999	7,628			7,628 U
97	0604932F	Long Range Standoff Weapon	05	646,800	712,539			712,539 U
98	0604933F	ICBM Fuze Modernization	05	124,457	161,199			161,199 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
81	1206857F	Space Rapid Capabilities Office	04						U
		Advanced Component Development & Prototypes		7,737,916				7,737,916	
82	0604200F	Future Advanced Weapon Analysis & Programs	05	25,161				25,161	U
83	0604201F	PNT Resiliency, Mods, and Improvements	05	38,564				38,564	U
84	0604222F	Nuclear Weapons Support	05	35,033				35,033	U
85	0604270F	Electronic Warfare Development	05	2,098				2,098	U
86	0604281F	Tactical Data Networks Enterprise	05	131,909				131,909	U
87	0604287F	Physical Security Equipment	05	6,752				6,752	U
88	0604329F	Small Diameter Bomb (SDB) - EMD	05	17,280				17,280	U
89	0604429F	Airborne Electronic Attack	05						U
90	0604602F	Armament/Ordnance Development	05	23,076				23,076	U
91	0604604F	Submunitions	05	3,091				3,091	U
92	0604617F	Agile Combat Support	05	20,609				20,609	U
93	0604618F	Joint Direct Attack Munition	05	7,926				7,926	U
94	0604706F	Life Support Systems	05	23,660				23,660	U
95	0604735F	Combat Training Ranges	05	8,898				8,898	U
96	0604800F	F-35 - EMD	05	5,423				5,423	U
97	0604932F	Long Range Standoff Weapon	05	474,430				474,430	U
98	0604933F	ICBM Fuze Modernization	05	167,099				167,099	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
FY 2021 President's Budget
Exhibit R-1 FY 2021 President's Budget
Total Obligational Authority
(Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
99	0605030F	Joint Tactical Network Center (JTNC)	05		2,414			2,414 U
100	0605056F	Open Architecture Management	05		30,000			30,000 U
101	0605221F	KC-46	05	77,852	59,561			59,561 U
102	0605223F	Advanced Pilot Training	05	236,840	340,373			340,373 U
103	0605229F	Combat Rescue Helicopter	05	430,483	247,047			247,047 U
104	0605931F	B-2 Defensive Management System	05	244,638	250,100			250,100 U
105	0101125F	Nuclear Weapons Modernization	05	42,001	27,564			27,564 U
106	0207171F	F-15 EPAWSS	05	133,382	47,322			47,322 U
107	0207328F	Stand In Attack Weapon	05	14,542	162,840			162,840 U
108	0207701F	Full Combat Mission Training	05	978	9,797			9,797 U
109	0303267F	Auctioned Spectrum Relocation Fund	05	44,652				U
110	0305176F	Combat Survivor Evader Locator	05					U
111	0401221F	KC-46A Tanker Squadrons	05					U
112	0401310F	C-32 Executive Transport Recapitalization	05	5,989	9,930			9,930 U
113	0401319F	VC-25B	05	713,633	757,923			757,923 U
114	0701212F	Automated Test Systems	05	13,153	2,787			2,787 U
115	0804772F	Training Developments	05					U
116	0901299F	AF A1 Systems	05					U
117	1203176F	Combat Survivor Evader Locator	05	913	2,000			2,000 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
99	0605030F	Joint Tactical Network Center (JTNC)	05						U
100	0605056F	Open Architecture Management	05	30,547				30,547	U
101	0605221F	KC-46	05						U
102	0605223F	Advanced Pilot Training	05	248,669				248,669	U
103	0605229F	Combat Rescue Helicopter	05	63,169				63,169	U
104	0605931F	B-2 Defensive Management System	05						U
105	0101125F	Nuclear Weapons Modernization	05	9,683				9,683	U
106	0207171F	F-15 EPAWSS	05	170,679				170,679	U
107	0207328F	Stand In Attack Weapon	05	160,438				160,438	U
108	0207701F	Full Combat Mission Training	05	9,422				9,422	U
109	0303267F	Auctioned Spectrum Relocation Fund	05						U
110	0305176F	Combat Survivor Evader Locator	05	973				973	U
111	0401221F	KC-46A Tanker Squadrons	05	106,262				106,262	U
112	0401310F	C-32 Executive Transport Recapitalization	05						U
113	0401319F	VC-25B	05	800,889				800,889	U
114	0701212F	Automated Test Systems	05	10,673				10,673	U
115	0804772F	Training Developments	05	4,479				4,479	U
116	0901299F	AF A1 Systems	05	8,467				8,467	U
117	1203176F	Combat Survivor Evader Locator	05						U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
118	1203269F	GPS III Follow-On (GPS IIIF)	05	412,202	447,875			447,875 U
119	1203940F	Space Situation Awareness Operations	05	35,569	56,829			56,829 U
120	1206421F	Counterspace Systems	05	19,637	27,037			27,037 U
121	1206422F	Weather System Follow-on	05		2,237			2,237 U
122	1206425F	Space Situation Awareness Systems	05	139,172	362,894			362,894 U
123	1206426F	Space Fence	05	18,841				U
124	1206431F	Advanced EHF MILSATCOM (SPACE)	05	139,927	117,290			117,290 U
125	1206432F	Polar MILSATCOM (SPACE)	05	25,480	412,400			412,400 U
126	1206433F	Wideband Global SATCOM (SPACE)	05	3,833	1,920			1,920 U
127	1206441F	Space Based Infrared System (SBIRS) High EMD	05	58,765	1			1 U
128	1206442F	Next Generation OPIR	05	736,389	1,470,278			1,470,278 U
129	1206445F	Commercial SATCOM (COMSATCOM) Integration	05	47,869	5,000			5,000 U
130	1206853F	National Security Space Launch Program (SPACE) - EMD	05	428,525	432,009			432,009 U
		System Development & Demonstration		5,377,043	6,690,641			6,690,641
131	0604256F	Threat Simulator Development	06	33,666	59,693			59,693 U
132	0604759F	Major T&E Investment	06	213,273	106,663			106,663 U
133	0605101F	RAND Project Air Force	06	33,308	35,258			35,258 U
134	0605502F	Small Business Innovation Research	06	795,378				U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
118	1203269F	GPS III Follow-On (GPS IIIF)	05						U
119	1203940F	Space Situation Awareness Operations	05						U
120	1206421F	Counterspace Systems	05						U
121	1206422F	Weather System Follow-on	05						U
122	1206425F	Space Situation Awareness Systems	05						U
123	1206426F	Space Fence	05						U
124	1206431F	Advanced EHF MILSATCOM (SPACE)	05						U
125	1206432F	Polar MILSATCOM (SPACE)	05						U
126	1206433F	Wideband Global SATCOM (SPACE)	05						U
127	1206441F	Space Based Infrared System (SBIRS) High EMD	05						U
128	1206442F	Next Generation OPIR	05						U
129	1206445F	Commercial SATCOM (COMSATCOM) Integration	05						U
130	1206853F	National Security Space Launch Program (SPACE) - EMD	05						U
		System Development & Demonstration		2,615,359				2,615,359	
131	0604256F	Threat Simulator Development	06	57,725				57,725	U
132	0604759F	Major T&E Investment	06	208,680				208,680	U
133	0605101F	RAND Project Air Force	06	35,803				35,803	U
134	0605502F	Small Business Innovation Research	06						U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-10A

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
135	0605712F	Initial Operational Test & Evaluation	06	17,383	13,793			13,793 U
136	0605807F	Test and Evaluation Support	06	692,784	717,895			717,895 U
137	0605826F	Acq Workforce- Global Power	06	229,904	255,667			255,667 U
138	0605827F	Acq Workforce- Global Vig & Combat Sys	06	243,647	249,992			249,992 U
139	0605828F	Acq Workforce- Global Reach	06	149,306	149,191			149,191 U
140	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	227,337	235,360			235,360 U
141	0605830F	Acq Workforce- Global Battle Mgmt	06	157,258	160,196			160,196 U
142	0605831F	Acq Workforce- Capability Integration	06	237,297	228,255			228,255 U
143	0605832F	Acq Workforce- Advanced Prgm Technology	06	36,739	39,392			39,392 U
144	0605833F	Acq Workforce- Nuclear Systems	06	126,681	133,231			133,231 U
145	0605898F	Management HQ - R&D	06	11,024	5,590			5,590 U
146	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	187,216	88,445			88,445 U
147	0605978F	Facilities Sustainment - Test and Evaluation Support	06	28,888	29,424			29,424 U
148	0606017F	Requirements Analysis and Maturation	06	46,145	86,715			86,715 U
149	0606398F	Management HQ - T&E	06		5,013			5,013 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
FY 2021 President's Budget
Exhibit R-1 FY 2021 President's Budget
Total Obligational Authority
(Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
135	0605712F	Initial Operational Test & Evaluation	06	13,557				13,557	U
136	0605807F	Test and Evaluation Support	06	764,606				764,606	U
137	0605826F	Acq Workforce- Global Power	06						U
138	0605827F	Acq Workforce- Global Vig & Combat Sys	06						U
139	0605828F	Acq Workforce- Global Reach	06						U
140	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06						U
141	0605830F	Acq Workforce- Global Battle Mgmt	06						U
142	0605831F	Acq Workforce- Capability Integration	06	1,362,038				1,362,038	U
143	0605832F	Acq Workforce- Advanced Prgm Technology	06	40,768				40,768	U
144	0605833F	Acq Workforce- Nuclear Systems	06	179,646				179,646	U
145	0605898F	Management HQ - R&D	06	5,734				5,734	U
146	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	70,985				70,985	U
147	0605978F	Facilities Sustainment - Test and Evaluation Support	06	29,880				29,880	U
148	0606017F	Requirements Analysis and Maturation	06	63,381				63,381	U
149	0606398F	Management HQ - T&E	06	5,785				5,785	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-11A

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO)	c
--	-----	----	---	-----	-----	-----	-----	-----	-
150	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM	06						U
151	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	17,258	10,628			10,628	U
152	0702806F	Acquisition and Management Support	06	12,130	5,913			5,913	U
153	0804731F	General Skill Training	06	432	6,475			6,475	U
154	0909999F	Financing for Cancelled Account Adjustments	06	3,593					U
155	1001004F	International Activities	06	3,866	4,071			4,071	U
156	1206116F	Space Test and Training Range Development	06	22,408	14,942			14,942	U
157	1206392F	ACQ Workforce - Space & Missile Systems	06	180,512	167,810			167,810	U
158	1206398F	Space & Missile Systems Center - MHA	06	10,508	10,170			10,170	U
159	1206860F	Rocket Systems Launch Program (SPACE)	06	21,906	13,192			13,192	U
160	1206862F	Tactically Responsive Launch	06		19,000			19,000	U
161	1206864F	Space Test Program (STP)	06	29,731	26,097			26,097	U
		Management Support		3,769,578	2,878,071			2,878,071	
162	0604003F	Advanced Battle Management System (ABMS)	07	27,883	35,611			35,611	U
163	0604233F	Specialized Undergraduate Flight Training	07	10,974	2,584			2,584	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
150	0303255F	Command, Control, Communication, and Computers (C4) - STRATCOM	06	24,564				24,564	U
151	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	9,883				9,883	U
152	0702806F	Acquisition and Management Support	06	13,384				13,384	U
153	0804731F	General Skill Training	06	1,262				1,262	U
154	0909999F	Financing for Cancelled Account Adjustments	06						U
155	1001004F	International Activities	06	3,599				3,599	U
156	1206116F	Space Test and Training Range Development	06						U
157	1206392F	ACQ Workforce - Space & Missile Systems	06						U
158	1206398F	Space & Missile Systems Center - MHA	06						U
159	1206860F	Rocket Systems Launch Program (SPACE)	06						U
160	1206862F	Tactically Responsive Launch	06						U
161	1206864F	Space Test Program (STP)	06						U
		Management Support		2,891,280				2,891,280	
162	0604003F	Advanced Battle Management System (ABMS)	07						U
163	0604233F	Specialized Undergraduate Flight Training	07	8,777				8,777	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

Page F-12A

UNCLASSIFIED

Department of the Air Force
FY 2021 President's Budget
Exhibit R-1 FY 2021 President's Budget
Total Obligational Authority
(Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
164	0604776F	Deployment & Distribution Enterprise R&D	07	257	903			903 U
165	0604840F	F-35 C2D2	07		642,371			642,371 U
166	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	39,794	40,567			40,567 U
167	0605024F	Anti-Tamper Technology Executive Agency	07	32,182	47,193			47,193 U
168	0605117F	Foreign Materiel Acquisition and Exploitation	07	68,368	70,083			70,083 U
169	0605278F	HC/MC-130 Recap RDT&E	07	15,641	17,218			17,218 U
170	0606018F	NC3 Integration	07	18,633	25,917			25,917 U
171	0606942F	Assessments and Evaluations Cyber Vulnerabilities	07	84,908				U
172	0101113F	B-52 Squadrons	07	290,097	323,624			323,624 U
173	0101122F	Air-Launched Cruise Missile (ALCM)	07	5,741	10,217			10,217 U
174	0101126F	B-1B Squadrons	07	58,175	1,000			1,000 U
175	0101127F	B-2 Squadrons	07	101,827	93,076			93,076 U
176	0101213F	Minuteman Squadrons	07	185,640	104,219			104,219 U
177	0101316F	Worldwide Joint Strategic Communications	07	17,767	26,177			26,177 U
178	0101324F	Integrated Strategic Planning & Analysis Network	07	22,231	24,261			24,261 U
179	0101328F	ICBM Reentry Vehicles	07	13,747	65,671			65,671 U
181	0102110F	UH-1N Replacement Program	07	190,523	170,975			170,975 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
164	0604776F	Deployment & Distribution Enterprise R&D	07	499				499	U
165	0604840F	F-35 C2D2	07	785,336				785,336	U
166	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	27,035				27,035	U
167	0605024F	Anti-Tamper Technology Executive Agency	07	50,508				50,508	U
168	0605117F	Foreign Materiel Acquisition and Exploitation	07	71,229				71,229	U
169	0605278F	HC/MC-130 Recap RDT&E	07	24,705				24,705	U
170	0606018F	NC3 Integration	07	26,356				26,356	U
171	0606942F	Assessments and Evaluations Cyber Vulnerabilities	07						U
172	0101113F	B-52 Squadrons	07	520,023				520,023	U
173	0101122F	Air-Launched Cruise Missile (ALCM)	07	1,433				1,433	U
174	0101126F	B-1B Squadrons	07	15,766				15,766	U
175	0101127F	B-2 Squadrons	07	187,399				187,399	U
176	0101213F	Minuteman Squadrons	07	116,569				116,569	U
177	0101316F	Worldwide Joint Strategic Communications	07	27,235				27,235	U
178	0101324F	Integrated Strategic Planning & Analysis Network	07	24,227				24,227	U
179	0101328F	ICBM Reentry Vehicles	07	112,753				112,753	U
181	0102110F	UH-1N Replacement Program	07	44,464				44,464	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO)	c
--	-----	----	---	-----	-----	-----	-----	-----	-
182	0102326F	Region/Sector Operation Control Center Modernization Program	07	5,904					U
183	0102412F	North Warning System (NWS)	07						U
184	0205219F	MQ-9 UAV	07	105,088	127,296			127,296	U
185	0205671F	Joint Counter RCIED Electronic Warfare	07	4,000			4,000	4,000	U
186	0207131F	A-10 Squadrons	07	27,537	31,916			31,916	U
187	0207133F	F-16 Squadrons	07	182,190	193,013			193,013	U
188	0207134F	F-15E Squadrons	07	196,035	684,229			684,229	U
189	0207136F	Manned Destructive Suppression	07	13,609	15,521			15,521	U
190	0207138F	F-22A Squadrons	07	563,635	546,298			546,298	U
191	0207142F	F-35 Squadrons	07	490,319	99,943			99,943	U
192	0207146F	F-15EX	07						U
193	0207161F	Tactical AIM Missiles	07	29,042	10,314			10,314	U
194	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	50,728	55,384			55,384	U
195	0207227F	Combat Rescue - Pararescue	07	623	281			281	U
196	0207247F	AF TENCAP	07		21,365			21,365	U
197	0207249F	Precision Attack Systems Procurement	07	14,346	10,696			10,696	U
198	0207253F	Compass Call	07	43,466	31,888			31,888	U
199	0207268F	Aircraft Engine Component Improvement Program	07	116,808	112,505			112,505	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
182	0102326F	Region/Sector Operation Control Center Modernization Program	07	5,929				5,929	U
183	0102412F	North Warning System (NWS)	07	100				100	U
184	0205219F	MQ-9 UAV	07	162,080				162,080	U
185	0205671F	Joint Counter RCIED Electronic Warfare	07			4,080	4,080	4,080	U
186	0207131F	A-10 Squadrons	07	24,535				24,535	U
187	0207133F	F-16 Squadrons	07	223,437				223,437	U
188	0207134F	F-15E Squadrons	07	298,908				298,908	U
189	0207136F	Manned Destructive Suppression	07	14,960				14,960	U
190	0207138F	F-22A Squadrons	07	665,038				665,038	U
191	0207142F	F-35 Squadrons	07	132,229				132,229	U
192	0207146F	F-15EX	07	159,761				159,761	U
193	0207161F	Tactical AIM Missiles	07	19,417				19,417	U
194	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	51,799				51,799	U
195	0207227F	Combat Rescue - Pararescue	07	669				669	U
196	0207247F	AF TENCAP	07	21,644				21,644	U
197	0207249F	Precision Attack Systems Procurement	07	9,261				9,261	U
198	0207253F	Compass Call	07	15,854				15,854	U
199	0207268F	Aircraft Engine Component Improvement Program	07	95,896				95,896	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
FY 2021 President's Budget
Exhibit R-1 FY 2021 President's Budget
Total Obligational Authority
(Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
200	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	40,933	78,498			78,498 U
201	0207410F	Air & Space Operations Center (AOC)	07	98,854	114,864			114,864 U
202	0207412F	Control and Reporting Center (CRC)	07	6,216	8,109			8,109 U
203	0207417F	Airborne Warning and Control System (AWACS)	07	108,795	67,996			67,996 U
204	0207418F	AFSPECWAR - TACP	07	2,562	2,462			2,462 U
206	0207431F	Combat Air Intelligence System Activities	07	10,316	13,668			13,668 U
207	0207438F	Theater Battle Management (TBM) C4I	07					U
208	0207444F	Tactical Air Control Party-Mod	07	6,135	4,117			4,117 U
209	0207448F	C2ISR Tactical Data Link	07	538				U
210	0207452F	DCAPES	07	14,649	19,910			19,910 U
211	0207521F	Air Force Calibration Programs	07					U
212	0207573F	National Technical Nuclear Forensics	07	1,723	1,788			1,788 U
213	0207590F	Seek Eagle	07	24,618	28,237			28,237 U
214	0207601F	USAF Modeling and Simulation	07	16,572	15,725			15,725 U
215	0207605F	Wargaming and Simulation Centers	07	5,916	4,316			4,316 U
216	0207610F	Battlefield Abn Comm Node (BACN)	07	42,349	26,946			26,946 U
217	0207697F	Distributed Training and Exercises	07	3,699	4,303			4,303 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
200	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	70,792				70,792	U
201	0207410F	Air & Space Operations Center (AOC)	07	51,187				51,187	U
202	0207412F	Control and Reporting Center (CRC)	07	16,041				16,041	U
203	0207417F	Airborne Warning and Control System (AWACS)	07	138,303				138,303	U
204	0207418F	AFSPECWAR - TACP	07	4,223				4,223	U
206	0207431F	Combat Air Intelligence System Activities	07	16,564				16,564	U
207	0207438F	Theater Battle Management (TBM) C4I	07	7,858				7,858	U
208	0207444F	Tactical Air Control Party-Mod	07	12,906				12,906	U
209	0207448F	C2ISR Tactical Data Link	07						U
210	0207452F	DCAPES	07	14,816				14,816	U
211	0207521F	Air Force Calibration Programs	07	1,970				1,970	U
212	0207573F	National Technical Nuclear Forensics	07	396				396	U
213	0207590F	Seek Eagle	07	29,680				29,680	U
214	0207601F	USAF Modeling and Simulation	07	17,666				17,666	U
215	0207605F	Wargaming and Simulation Centers	07	6,353				6,353	U
216	0207610F	Battlefield Abn Comm Node (BACN)	07	6,827				6,827	U
217	0207697F	Distributed Training and Exercises	07	3,390				3,390	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
218	0208006F	Mission Planning Systems	07	61,164	71,465			71,465 U
219	0208007F	Tactical Deception	07	6,687	7,446			7,446 U
220	0208064F	OPERATIONAL HQ - CYBER	07		7,602			7,602 U
221	0208087F	Distributed Cyber Warfare Operations	07	38,857	35,178			35,178 U
222	0208088F	AF Defensive Cyberspace Operations	07	36,953	38,609			38,609 U
223	0208097F	Joint Cyber Command and Control (JCC2)	07	12,553	11,603			11,603 U
224	0208099F	Unified Platform (UP)	07	26,093	84,702			84,702 U
228	0208288F	Intel Data Applications	07	1,200			1,200	1,200 U
229	0301017F	Global Sensor Integrated on Network (GSIN)	07	3,468				U
230	0301025F	GeoBase	07		2,723			2,723 U
231	0301112F	Nuclear Planning and Execution System (NPES)	07	28,623	44,190			44,190 U
238	0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07	6,633	3,575			3,575 U
239	0302015F	E-4B National Airborne Operations Center (NAOC)	07	55,707	60,173			60,173 U
240	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	62,146	13,543			13,543 U
241	0303133F	High Frequency Radio Systems	07	49,912	15,881			15,881 U
242	0303140F	Information Systems Security Program	07	35,775	27,726			27,726 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
218	0208006F	Mission Planning Systems	07	91,768				91,768	U
219	0208007F	Tactical Deception	07	2,370				2,370	U
220	0208064F	OPERATIONAL HQ - CYBER	07	5,527				5,527	U
221	0208087F	Distributed Cyber Warfare Operations	07	68,279				68,279	U
222	0208088F	AF Defensive Cyberspace Operations	07	15,165				15,165	U
223	0208097F	Joint Cyber Command and Control (JCC2)	07	38,480				38,480	U
224	0208099F	Unified Platform (UP)	07	84,645				84,645	U
228	0208288F	Intel Data Applications	07			1,224	1,224	1,224	U
229	0301017F	Global Sensor Integrated on Network (GSIN)	07						U
230	0301025F	GeoBase	07	2,767				2,767	U
231	0301112F	Nuclear Planning and Execution System (NPES)	07	32,759				32,759	U
238	0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07	2,904				2,904	U
239	0302015F	E-4B National Airborne Operations Center (NAOC)	07	3,468				3,468	U
240	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	61,887				61,887	U
241	0303133F	High Frequency Radio Systems	07						U
242	0303140F	Information Systems Security Program	07	10,351				10,351	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
243	0303142F	Global Force Management - Data Initiative	07	2,108	2,210			2,210 U
245	0304115F	Multi Domain Command and Control (MDC2)	07		100,880			100,880 U
246	0304260F	Airborne SIGINT Enterprise	07	109,838	85,157			85,157 U
247	0304310F	Commercial Economic Analysis	07	4,014	3,431			3,431 U
250	0305015F	C2 Air Operations Suite - C2 Info Services	07	8,324	9,313			9,313 U
251	0305020F	CCMD Intelligence Information Technology	07	1,586	1,121			1,121 U
252	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07		19,000			19,000 U
253	0305099F	Global Air Traffic Management (GATM)	07	3,966	4,544			4,544 U
254	0305103F	Cyber Security Initiative	07					U
255	0305111F	Weather Service	07	33,563	35,461			35,461 U
256	0305114F	Air Traffic Control, Approach, and Landing System (ATCALs)	07	12,873	8,651			8,651 U
257	0305116F	Aerial Targets	07	6,527	7,448			7,448 U
260	0305128F	Security and Investigative Activities	07	403	425			425 U
261	0305145F	Arms Control Implementation	07	24,804	41,546			41,546 U
262	0305146F	Defense Joint Counterintelligence Activities	07	3,845	6,858			6,858 U
264	0305179F	Integrated Broadcast Service (IBS)	07		8,728			8,728 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
243	0303142F	Global Force Management - Data Initiative	07	1,346				1,346	U
245	0304115F	Multi Domain Command and Control (MDC2)	07						U
246	0304260F	Airborne SIGINT Enterprise	07	128,110				128,110	U
247	0304310F	Commercial Economic Analysis	07	4,042				4,042	U
250	0305015F	C2 Air Operations Suite - C2 Info Services	07						U
251	0305020F	CCMD Intelligence Information Technology	07	1,649				1,649	U
252	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07	19,265				19,265	U
253	0305099F	Global Air Traffic Management (GATM)	07	4,645				4,645	U
254	0305103F	Cyber Security Initiative	07	384				384	U
255	0305111F	Weather Service	07	23,640				23,640	U
256	0305114F	Air Traffic Control, Approach, and Landing System (ATCALs)	07	6,553				6,553	U
257	0305116F	Aerial Targets	07	449				449	U
260	0305128F	Security and Investigative Activities	07	432				432	U
261	0305145F	Arms Control Implementation	07						U
262	0305146F	Defense Joint Counterintelligence Activities	07	4,890				4,890	U
264	0305179F	Integrated Broadcast Service (IBS)	07	8,864				8,864	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
265	0305202F	Dragon U-2	07	87,618	36,389			36,389 U
266	0305205F	Endurance Unmanned Aerial Vehicles	07	15,000	15,000			15,000 U
267	0305206F	Airborne Reconnaissance Systems	07	195,323	137,909			137,909 U
268	0305207F	Manned Reconnaissance Systems	07	14,223	11,787			11,787 U
269	0305208F	Distributed Common Ground/Surface Systems	07	52,421	25,009			25,009 U
270	0305220F	RQ-4 UAV	07	221,675	191,733			191,733 U
271	0305221F	Network-Centric Collaborative Targeting	07	14,256	10,757			10,757 U
272	0305238F	NATO AGS	07	51,527	32,567			32,567 U
273	0305240F	Support to DCGS Enterprise	07	26,579	37,774			37,774 U
274	0305600F	International Intelligence Technology and Architectures	07	11,564	13,515			13,515 U
275	0305881F	Rapid Cyber Acquisition	07	4,146	4,383			4,383 U
276	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	2,385	2,133			2,133 U
277	0307577F	Intelligence Mission Data (IMD)	07	5,717	8,614			8,614 U
278	0401115F	C-130 Airlift Squadron	07	58,408	101,425			101,425 U
279	0401119F	C-5 Airlift Squadrons (IF)	07	28,245	10,223			10,223 U
280	0401130F	C-17 Aircraft (IF)	07	43,288	21,101			21,101 U
281	0401132F	C-130J Program	07	9,924	8,640			8,640 U
282	0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07	4,182	5,424			5,424 U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
265	0305202F	Dragon U-2	07	18,660				18,660	U
266	0305205F	Endurance Unmanned Aerial Vehicles	07						U
267	0305206F	Airborne Reconnaissance Systems	07	121,512				121,512	U
268	0305207F	Manned Reconnaissance Systems	07	14,711				14,711	U
269	0305208F	Distributed Common Ground/Surface Systems	07	14,152				14,152	U
270	0305220F	RQ-4 UAV	07	134,589				134,589	U
271	0305221F	Network-Centric Collaborative Targeting	07	15,049				15,049	U
272	0305238F	NATO AGS	07	36,731				36,731	U
273	0305240F	Support to DCGS Enterprise	07	33,547				33,547	U
274	0305600F	International Intelligence Technology and Architectures	07	13,635				13,635	U
275	0305881F	Rapid Cyber Acquisition	07	4,262				4,262	U
276	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	2,207				2,207	U
277	0307577F	Intelligence Mission Data (IMD)	07	6,277				6,277	U
278	0401115F	C-130 Airlift Squadron	07	41,973				41,973	U
279	0401119F	C-5 Airlift Squadrons (IF)	07	32,560				32,560	U
280	0401130F	C-17 Aircraft (IF)	07	9,991				9,991	U
281	0401132F	C-130J Program	07	10,674				10,674	U
282	0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07	5,507				5,507	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO)	c
--	-----	----	---	-----	-----	-----	-----	-----	-
283	0401218F	KC-135s	07	2,692					U
284	0401219F	KC-10s	07	5,084	20			20	U
285	0401314F	Operational Support Airlift	07	3,059					U
286	0401318F	CV-22	07	15,981	17,906			17,906	U
287	0401840F	AMC Command and Control System	07	1,626					U
288	0408011F	Special Tactics / Combat Control	07	2,322	3,629			3,629	U
289	0702207F	Depot Maintenance (Non-IF)	07	1,880	1,890			1,890	U
290	0708055F	Maintenance, Repair & Overhaul System	07	49,330	10,311			10,311	U
291	0708610F	Logistics Information Technology (LOGIT)	07	13,065	16,065			16,065	U
292	0708611F	Support Systems Development	07	4,406	539			539	U
293	0804743F	Other Flight Training	07	1,948	2,057			2,057	U
294	0808716F	Other Personnel Activities	07	108	10			10	U
295	0901202F	Joint Personnel Recovery Agency	07	1,947	2,060			2,060	U
296	0901218F	Civilian Compensation Program	07	2,849	3,809			3,809	U
297	0901220F	Personnel Administration	07	4,102	6,476			6,476	U
298	0901226F	Air Force Studies and Analysis Agency	07	1,364	1,443			1,443	U
299	0901538F	Financial Management Information Systems Development	07	86,578	9,323			9,323	U
300	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07		46,789			46,789	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
283	0401218F	KC-135s	07	4,591				4,591	U
284	0401219F	KC-10s	07						U
285	0401314F	Operational Support Airlift	07						U
286	0401318F	CV-22	07	18,419				18,419	U
287	0401840F	AMC Command and Control System	07						U
288	0408011F	Special Tactics / Combat Control	07	7,673				7,673	U
289	0702207F	Depot Maintenance (Non-IF)	07						U
290	0708055F	Maintenance, Repair & Overhaul System	07	24,513				24,513	U
291	0708610F	Logistics Information Technology (LOGIT)	07	35,225				35,225	U
292	0708611F	Support Systems Development	07	11,838				11,838	U
293	0804743F	Other Flight Training	07	1,332				1,332	U
294	0808716F	Other Personnel Activities	07						U
295	0901202F	Joint Personnel Recovery Agency	07	2,092				2,092	U
296	0901218F	Civilian Compensation Program	07	3,869				3,869	U
297	0901220F	Personnel Administration	07	1,584				1,584	U
298	0901226F	Air Force Studies and Analysis Agency	07	1,197				1,197	U
299	0901538F	Financial Management Information Systems Development	07	7,006				7,006	U
300	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07	45,638				45,638	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
301	1201017F	Global Sensor Integrated on Network (GSIN)	07		3,647			3,647 U
302	1201921F	Service Support to STRATCOM - Space Activities	07	28,636	988			988 U
303	1202140F	Service Support to SPACECOM Activities	07		11,863			11,863 U
304	1202247F	AF TENCAP	07	31,986				U
305	1203001F	Family of Advanced BLoS Terminals (FAB-T)	07	58,582	195,288			195,288 U
306	1203110F	Satellite Control Network (SPACE)	07	26,374	57,891			57,891 U
308	1203165F	NAVSTAR Global Positioning System (Space and Control Segments)	07	8,610				U
309	1203173F	Space and Missile Test and Evaluation Center	07	69,785	4,566			4,566 U
310	1203174F	Space Innovation, Integration and Rapid Technology Development	07	20,250	33,292			33,292 U
311	1203179F	Integrated Broadcast Service (IBS)	07	9,887				U
312	1203182F	Spacelift Range System (SPACE)	07	20,168	5,837			5,837 U
313	1203265F	GPS III Space Segment	07	136,998	42,440			42,440 U
314	1203400F	Space Superiority Intelligence	07	16,278	14,428			14,428 U
315	1203614F	JSPOC Mission System	07	43,108	85,762			85,762 U
316	1203620F	National Space Defense Center	07	53,305	2,653			2,653 U
317	1203873F	Ballistic Missile Defense Radars	07		15,881			15,881 U
318	1203906F	NCMC - TW/AA System	07					U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
301	1201017F	Global Sensor Integrated on Network (GSIN)	07	1,889				1,889	U
302	1201921F	Service Support to STRATCOM - Space Activities	07	993				993	U
303	1202140F	Service Support to SPACECOM Activities	07	8,999				8,999	U
304	1202247F	AF TENCAP	07						U
305	1203001F	Family of Advanced BLoS Terminals (FAB-T)	07						U
306	1203110F	Satellite Control Network (SPACE)	07						U
308	1203165F	NAVSTAR Global Positioning System (Space and Control Segments)	07						U
309	1203173F	Space and Missile Test and Evaluation Center	07						U
310	1203174F	Space Innovation, Integration and Rapid Technology Development	07						U
311	1203179F	Integrated Broadcast Service (IBS)	07						U
312	1203182F	Spacelift Range System (SPACE)	07						U
313	1203265F	GPS III Space Segment	07						U
314	1203400F	Space Superiority Intelligence	07	16,810				16,810	U
315	1203614F	JSpOC Mission System	07						U
316	1203620F	National Space Defense Center	07	2,687				2,687	U
317	1203873F	Ballistic Missile Defense Radars	07						U
318	1203906F	NCMC - TW/AA System	07	6,990				6,990	U

R-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:35:01

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
--	-----	----	---	-----	-----	-----	-----	-----
319	1203913F	NUDET Detection System (SPACE)	07	21,578	49,300			49,300 U
320	1203940F	Space Situation Awareness Operations	07	18,920	17,834			17,834 U
321	1206423F	Global Positioning System III - Operational Control Segment	07	491,601	445,302			445,302 U
322	1206770F	Enterprise Ground Services	07		118,870			118,870 U
9999	9999999999	Classified Programs		16,832,438	17,785,996		78,713	17,864,709 U
		Operational Systems Development		22,982,541	24,480,992		83,913	24,564,905
				-----	-----	-----	-----	-----
		Total Research, Development, Test & Eval, AF		41,419,014	45,566,955		128,248	45,695,203

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3600F Research, Development, Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
--	-----	----	---	-----	-----	-----	-----	-----	-
319	1203913F	NUDET Detection System (SPACE)	07						U
320	1203940F	Space Situation Awareness Operations	07						U
321	1206423F	Global Positioning System III - Operational Control Segment	07						U
322	1206770F	Enterprise Ground Services	07						U
9999	9999999999	Classified Programs		15,777,856				15,777,856	U
		Operational Systems Development		21,466,680		5,304	5,304	21,471,984	
				-----	-----	-----	-----	-----	
		Total Research, Development, Test & Eval, AF		37,391,826		5,304	5,304	37,397,130	

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
Summary Recap of Budget Activities					

Applied Research					
Advanced Component Development & Prototypes					
System Development & Demonstration					
Management Support					
Operational System Development					
Software & Digital Technology Pilot Programs					
Total Research, Development, Test & Evaluation					
Summary Recap of FYDP Programs					

Space					
Classified Programs					
Total Research, Development, Test & Evaluation					

UNCLASSIFIED

Department of the Air Force
 FY 2021 President's Budget
 Exhibit R-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
Summary Recap of Budget Activities -----					
Applied Research	130,874				130,874
Advanced Component Development & Prototypes	1,311,311				1,311,311
System Development & Demonstration	3,744,016				3,744,016
Management Support	258,510				258,510
Operational System Development	4,733,142				4,733,142
Software & Digital Technology Pilot Programs	149,742				149,742
Total Research, Development, Test & Evaluation	10,327,595				10,327,595
Summary Recap of FYDP Programs -----					
Space	6,694,729				6,694,729
Classified Programs	3,632,866				3,632,866
Total Research, Development, Test & Evaluation	10,327,595				10,327,595