Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

Appropriation	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Research, Development, Test & Eval, AF	38,077,597	41,166,683	321,934	41,488,617
Total Research, Development, Test & Evaluation	38,077,597	41,166,683	321,934	41,488,617

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

Appropriation	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	
Research, Development, Test & Eval, AF	45,616,122	322,000	128,248	450,248	46,066,370	
Total Research, Development, Test & Evaluation	45,616,122	322,000	128,248	450,248	46,066,370	

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

Summary Recap of Budget Activities	(Base + OCO)	FY 2019 Base Enacted	OCO Enacted	Total Enacted
Basic Research	491,502	561,329		561,329
Applied Research	1,454,070	1,480,573		1,480,573
Advanced Technology Development	829,525	928,747		928,747
Advanced Component Development & Prototypes	4,962,068	6,625,697	13,495	6,639,192
System Development & Demonstration	4,407,341	5,453,523		5,453,523
Management Support	3,490,712	2,963,117		2,963,117
Operational Systems Development	22,442,379	23,153,697	308,439	23,462,136
Total Research, Development, Test & Evaluation	38,077,597	41,166,683	321,934	41,488,617
Summary Recap of FYDP Programs				
Strategic Forces	784,917	1,018,923	34,000	1,052,923
General Purpose Forces	2,899,628	3,077,252	53,049	3,130,301
Intelligence and Communications	1,609,415	1,438,024	54,600	1,492,624
Mobility Forces	550,926	898,833		898,833
Research and Development	11,665,345	12,799,979		12,799,979
Central Supply and Maintenance	97,493	96,826		96,826
Training Medical and Other	2,558	2,578		2,578
Administration and Associated Activities	118,914	122,255		122,255
Support of Other Nations	4,418	3,998		3,998

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

EA 3030

19 Feb 2019

Summary Recap of Budget Activities	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)
Basic Research	529 , 761				529,761
Applied Research	1,435,626				1,435,626
Advanced Technology Development	839,153				839,153
Advanced Component Development & Prototypes	8,436,279		44,335	44,335	8,480,614
System Development & Demonstration	6,929,244				6,929,244
Management Support	2,916,571				2,916,571
Operational Systems Development	24,529,488	322,000	83,913	405,913	24,935,401
Total Research, Development, Test & Evaluation	45,616,122	322,000	128,248	450,248	46,066,370
Summary Recap of FYDP Programs					
Strategic Forces	879 , 977				879 , 977
General Purpose Forces	3,488,992		5,200	5,200	3,494,192
Intelligence and Communications	1,393,298				1,393,298
Mobility Forces	979,221				979,221
Research and Development	14,419,778		26,450	26,450	14,446,228
Central Supply and Maintenance	37,505				37,505
Training Medical and Other	3,542				3,542
Administration and Associated Activities	90,730				90,730
Support of Other Nations	4,071				4,071

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Space	3,554,350	4,848,491	18,495	4,866,986
Classified Programs	16,789,633	16,859,524	161,790	17,021,314
Total Research, Development, Test & Evaluation	38,077,597	41,166,683	321,934	41,488,617

Department of Defense FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)
Space	6,289,502		17,885	17,885	6,307,387
Classified Programs	18,029,506	322,000	78,713	400,713	18,430,219
Total Research, Development, Test & Evaluation	45,616,122	322,000	128,248	450,248	46,066,370

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

Summary Recap of Budget Activities	(Base + OCO)	FY 2019 Base Enacted	OCO Enacted	Total Enacted
Basic Research	491,502	561,329		561,329
Applied Research	1,454,070	1,480,573		1,480,573
Advanced Technology Development	829,525	928,747		928,747
Advanced Component Development & Prototypes	4,962,068	6,625,697	13,495	6,639,192
System Development & Demonstration	4,407,341	5,453,523		5,453,523
Management Support	3,490,712	2,963,117		2,963,117
Operational Systems Development	22,442,379	23,153,697	308,439	23,462,136
Total Research, Development, Test & Evaluation	38,077,597	41,166,683	321,934	41,488,617
Summary Recap of FYDP Programs				
Strategic Forces	784,917	1,018,923	34,000	1,052,923
General Purpose Forces	2,899,628	3,077,252	53,049	3,130,301
Intelligence and Communications	1,609,415	1,438,024	54,600	1,492,624
Mobility Forces	550,926	898,833		898,833
Research and Development	11,665,345	12,799,979		12,799,979
Central Supply and Maintenance	97,493	96,826		96,826
Training Medical and Other	2,558	2,578		2,578
Administration and Associated Activities	118,914	122,255		122,255
Support of Other Nations	4,418	3,998		3,998

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

EA 3030

19 Feb 2019

Summary Recap of Budget Activities	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)
Basic Research	529 , 761				529,761
Applied Research	1,435,626				1,435,626
Advanced Technology Development	839,153				839,153
Advanced Component Development & Prototypes	8,436,279		44,335	44,335	8,480,614
System Development & Demonstration	6,929,244				6,929,244
Management Support	2,916,571				2,916,571
Operational Systems Development	24,529,488	322,000	83,913	405,913	24,935,401
Total Research, Development, Test & Evaluation	45,616,122	322,000	128,248	450,248	46,066,370
Summary Recap of FYDP Programs					
Strategic Forces	879 , 977				879 , 977
General Purpose Forces	3,488,992		5,200	5,200	3,494,192
Intelligence and Communications	1,393,298				1,393,298
Mobility Forces	979,221				979,221
Research and Development	14,419,778		26,450	26,450	14,446,228
Central Supply and Maintenance	37,505				37,505
Training Medical and Other	3,542				3,542
Administration and Associated Activities	90,730				90,730
Support of Other Nations	4,071				4,071

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

Summary Recap of Budget Activities	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Space	3,554,350	4,848,491	18,495	4,866,986
Classified Programs	16,789,633	16,859,524	161,790	17,021,314
Total Research, Development, Test & Evaluation	38,077,597	41,166,683	321,934	41,488,617

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

Summary Recap of Budget Activities	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	
Space	6,289,502		17 , 885	17,885	6,307,387	
Classified Programs	18,029,506	322,000	78,713	400,713	18,430,219	
Total Research, Development, Test & Evaluation	45,616,122	322,000	128,248	450,248	46,066,370	

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

	Program Element Number		Act	FY 2018 (Base + OCO)		FY 2019 Total Enacted	S e c
1	0601102F	Defense Research Sciences	01	320,961	383,322	383,322	U
2	0601103F	University Research Initiatives	01	157,079	164,991	164,991	U
3	0601108F	High Energy Laser Research Initiatives	01		13,016	13,016	U
	Basic	Research		491,502	561,329	 561,329	
4	0602102F	Materials	02	143,900	181,373	181,373	U
5	0602201F	Aerospace Vehicle Technologies	02	151,637	160,461	160,461	U
6	0602202F	Human Effectiveness Applied Research	02	126,542	119,018	119,018	U
7	0602203F	Aerospace Propulsion	02	192,846	218,419	218,419	U
8	0602204F	Aerospace Sensors	02	157,078	171,307	171,307	U
9	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02	74,760			U
10	0602298F	Science and Technology Management - Major Headquarters Activities	02	8,353	8,288	8,288	U
11	0602601F	Space Technology	02	145,921			U
12	0602602F	Conventional Munitions	02	99,543	112,841	112,841	U
13	0602605F	Directed Energy Technology	02	121,610	141,800	141,800	U
14	0602788F	Dominant Information Sciences and Methods	02	191,724	185,276	185,276	U
15	0602890F	High Energy Laser Research	02	40,156	43,192	43,192	U
16	1206601F	Space Technology	02		138,598	138,598	U
	Appli	ed Research		1,454,070	1,480,573	 1,480,573	

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

						FY 2020 OCO for			
	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
1	0601102F	Defense Research Sciences	01	356,107				356,107	U
2	0601103F	University Research Initiatives	01	158,859				158,859	U
3	0601108F	High Energy Laser Research Initiatives	01	14,795				14,795	U
	Basic	Research		529 , 761				529 , 761	
4	0602102F	Materials	02	128,851				128,851	U
5	0602201F	Aerospace Vehicle Technologies	02	147,724				147,724	U
6	0602202F	Human Effectiveness Applied Research	02	131,795				131,795	U
7	0602203F	Aerospace Propulsion	02	198,775				198,775	U
8	0602204F	Aerospace Sensors	02	202,912				202,912	U
9	0602212F	Defense Laboratories R&D Projects (10 U.S.C, Sec 2358)	02						U
10	0602298F	Science and Technology Management - Major Headquarters Activities	02	7,968				7,968	Ū
11	0602601F	Space Technology	02						U
12	0602602F	Conventional Munitions	02	142,772				142,772	U
13	0602605F	Directed Energy Technology	02	124,379				124,379	U
14	0602788F	Dominant Information Sciences and Methods	02	181,562				181,562	U
15	0602890F	High Energy Laser Research	02	44,221				44,221	U
16	1206601F	Space Technology	02	124,667				124 , 667	U

1,435,626

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Applied Research

1,435,626

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e l c
	0603112F	Advanced Materials for Weapon Systems	03	34,694	47,426		47 , 426	U
18	0603199F	Sustainment Science and Technology (S&T)	03	20,724	15,150		15,150	U
19	0603203F	Advanced Aerospace Sensors	03	46,784	44,968		44,968	U
20	0603211F	Aerospace Technology Dev/Demo	03	103,123	126,002		126,002	U
21	0603216F	Aerospace Propulsion and Power Technology	03	122,217	148,418		148,418	U
22	0603270F	Electronic Combat Technology	03	56,238	55,054		55,054	U
23	0603401F	Advanced Spacecraft Technology	03	94,946	70,734		70,734	U
24	0603444F	Maui Space Surveillance System (MSSS)	03	9,755	10,674		10,674	U
25	0603456F	Human Effectiveness Advanced Technology Development	03	30,153	36,420		36,420	U
26	0603601F	Conventional Weapons Technology	03	157,676	204,756		204,756	U
27	0603605F	Advanced Weapons Technology	03	42,322	43,368		43,368	U
28	0603680F	Manufacturing Technology Program	03	63,224	65 , 760		65,760	U
29	0603788F	Battlespace Knowledge Development and Demonstration	03	45,481	60,017		60,017	U
30	0303467F	SENSR Spectrum Pipeline SRF	03	2,188				U
	Advan	ced Technology Development		829 , 525	928,747		928 , 747	
31	0603260F	Intelligence Advanced Development	04	7,652	5,568		5 , 568	U
32	0603742F	Combat Identification Technology	04	23,578	18,194		18,194	U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
17	0603112F	Advanced Materials for Weapon Systems	03	36,586				36 , 586	U
18	0603199F	Sustainment Science and Technology (S&T)	03	16,249				16,249	U
19	0603203F	Advanced Aerospace Sensors	03	38,292				38,292	U
20	0603211F	Aerospace Technology Dev/Demo	03	102,949				102,949	U
21	0603216F	Aerospace Propulsion and Power Technology	03	113,973				113,973	U
22	0603270F	Electronic Combat Technology	03	48,408				48,408	U
23	0603401F	Advanced Spacecraft Technology	03	70,525				70 , 525	U
24	0603444F	Maui Space Surveillance System (MSSS)	03	11,878				11,878	U
25	0603456F	Human Effectiveness Advanced Technology Development	03	37,542				37,542	U
26	0603601F	Conventional Weapons Technology	03	225,817				225,817	U
27	0603605F	Advanced Weapons Technology	03	37,404				37,404	U
28	0603680F	Manufacturing Technology Program	03	43,116				43,116	U
29	0603788F	Battlespace Knowledge Development and Demonstration	03	56,414				56,414	U
30	0303467F	SENSR Spectrum Pipeline SRF	03						U
	Advar	nced Technology Development		839,153		-	-	839,153	
31	0603260F	Intelligence Advanced Development	04	5 , 672				5,672	U

27,085

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04

32 0603742F Combat Identification Technology

27,085 U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
33	0603790F	NATO Research and Development	04	3,710	2,305		2,305	U
34	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	27,424	32,356		32,356	U
35	0603859F	Pollution Prevention - Dem/Val	04	2	200		200	U
36	0604002F	Air Force Weather Services Research	04					U
37	0604004F	Advanced Engine Development	04		720 , 355		720,355	U
38	0604015F	Long Range Strike - Bomber	04	1,914,611	2,279,196		2,279,196	U
39	0604032F	Directed Energy Prototyping	04		50,000		50,000	U
40	0604033F	Hypersonics Prototyping	04		508,858		508,858	U
41	0604201F	PNT Resiliency, Mods, and Improvements	04	63,302	81,271		81,271	U
42	0604257F	Advanced Technology and Sensors	04	78 , 122	34,585		34,585	U
43	0604288F	National Airborne Ops Center (NAOC) Recap	04	6,141	7,440		7,440	U
44	0604317F	Technology Transfer	04	17,644	16,924		16,924	U
45	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	39,682	36,701		36,701	U
46	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	41,055	62,618		62,618	U
47	0604776F	Deployment & Distribution Enterprise R&D	04	25 , 597	27,964		27,964	U
48	0604858F	Tech Transition Program	04	1,079,458	167,277		167,277	U
49	0605230F	Ground Based Strategic Deterrent	04	221,536	414,441		414,441	U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

		FY 2020	
		OCO for	
Program	FY 2020	Direct War	FY 2020

	Program Element Number	Item 	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
33	0603790F	NATO Research and Development	04	4,955				4,955	U
34	0603851F	Intercontinental Ballistic Missile - Dem/Val	04	44,109				44,109	Ū
35	0603859F	Pollution Prevention - Dem/Val	04						U
36	0604002F	Air Force Weather Services Research	04	772				772	U
37	0604004F	Advanced Engine Development	04	878,442				878,442	U
38	0604015F	Long Range Strike - Bomber	04	3,003,899				3,003,899	U
39	0604032F	Directed Energy Prototyping	04	10,000				10,000	U
40	0604033F	Hypersonics Prototyping	04	576,000				576,000	U
41	0604201F	PNT Resiliency, Mods, and Improvements	04	92,600				92,600	U
42	0604257F	Advanced Technology and Sensors	04	23,145				23,145	U
43	0604288F	National Airborne Ops Center (NAOC) Recap	04	16,669				16,669	U
44	0604317F	Technology Transfer	04	23,614				23,614	U
45	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	04	113,121				113,121	U
46	0604414F	Cyber Resiliency of Weapon Systems-ACS	04	56,325				56,325	U
47	0604776F	Deployment & Distribution Enterprise R&D	04	28,034				28,034	U
48	0604858F	Tech Transition Program	04	128,476		26,450	26,450	154,926	U
49	0605230F	Ground Based Strategic Deterrent	04	570 , 373				570 , 373	U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	s e c
50	0207100F	Light Attack Armed Reconnaissance (LAAR) Squadrons	04					U
51	0207110F	Next Generation Air Dominance	04	283,964	429,610		429,610	U
52	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	12,122	24,856		24,856	U
53	0208099F	Unified Platform (UP)	04		29,800		29,800	U
54	0305236F	Common Data Link Executive Agent (CDL EA)	04	40,838	41,880		41,880	U
55	0305251F	Cyberspace Operations Forces and Force Support	04					U
56	0305601F	Mission Partner Environments	04		10,074		10,074	U
57	0306250F	Cyber Operations Technology Development	04	278 , 521	246,502		246,502	U
58	0306415F	Enabled Cyber Activities	04	16,687	16,325		16,325	U
59	0408011F	Special Tactics / Combat Control	04	4,266				U
60	0901410F	Contracting Information Technology System	04	18,973	17,577		17,577	U
61	1203164F	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04	321,186	252,834		252,834	U
62	1203710F	EO/IR Weather Systems	04	8,000	7,940		7,940	U
63	1206422F	Weather System Follow-on	04	98,396	138,052		138,052	U
64	1206425F	Space Situation Awareness Systems	04	43,290	33,469		33,469	U
65	1206427F	Space Systems Prototype Transitions (SSPT)	04					U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

FY 2020 OCO for

	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c -
50	0207100F	Light Attack Armed Reconnaissance (LAAR) Squadrons	04	35,000				35,000	U
51	0207110F	Next Generation Air Dominance	04	1,000,000				1,000,000	U
52	0207455F	Three Dimensional Long-Range Radar (3DELRR)	04	37,290				37,290	U
53	0208099F	Unified Platform (UP)	04	10,000				10,000	U
54	0305236F	Common Data Link Executive Agent (CDL EA)	04	36,910				36,910	U
55	0305251F	Cyberspace Operations Forces and Force Support	04	35,000				35,000	U
56	0305601F	Mission Partner Environments	04	8,550				8 , 550	U
57	0306250F	Cyber Operations Technology Development	04	198,864				198,864	U
58	0306415F	Enabled Cyber Activities	04	16,632				16,632	U
59	0408011F	Special Tactics / Combat Control	04						U
60	0901410F	Contracting Information Technology System	04	20,830				20,830	U
61	1203164F	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04	329,948				329,948	U
62	1203710F	EO/IR Weather Systems	04	101,222				101,222	U
63	1206422F	Weather System Follow-on	04	225,660				225,660	U
64	1206425F	Space Situation Awareness Systems	04	29,776				29 , 776	U
65	1206427F	Space Systems Prototype Transitions (SSPT)	04	142,045				142,045	U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

No	Program Element Number	Item 	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted		S e c
	1206434F	Midterm Polar MILSATCOM System		60,123	383,113		383,113	U
67	1206438F	Space Control Technology	04	44,139	90,546	1,100	91,646	U
68	1206730F	Space Security and Defense Program	04	41,385	45,542		45,542	U
69	1206760F	Protected Tactical Enterprise Service (PTES)	04	17,552	46,419		46,419	U
70	1206761F	Protected Tactical Service (PTS)	04	23,404	29,626		29,626	U
71	1206855F	Evolved Strategic SATCOM (ESS)	04	15,473	29,229		29,229	U
72	1206857F	Space Rapid Capabilities Office	04	84,235	286,050	12,395	298,445	U
	Advan	ced Component Development & Prototyp	es	4,962,068		13,495	6,639,192	
73	0604200F	Future Advanced Weapon Analysis & Programs	05	5,108	39,602		39,602	U
74	0604201F	PNT Resiliency, Mods, and Improvements	05	97,943	46,731		46,731	U
75	0604222F	Nuclear Weapons Support	05	2,910	4,468		4,468	U
76	0604270F	Electronic Warfare Development	05	2,159	1,909		1,909	U
77	0604281F	Tactical Data Networks Enterprise	05	42,128	270,015		270,015	U
78	0604287F	Physical Security Equipment	05	39,639	14,421		14,421	U
79	0604329F	Small Diameter Bomb (SDB) - EMD	05	37,667	78,091		78,091	U
80	0604429F	Airborne Electronic Attack	05	4,910	6,153		6,153	U
81	0604602F	Armament/Ordnance Development	05	16,765	49,590		49,590	U
82	0604604F	Submunitions	05	2,697	2,990		2,990	U
83	0604617F	Agile Combat Support	05	36,351	23,489		23,489	U

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Line E No N	Program Element Number	Item 	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
66 1	1206434F	Midterm Polar MILSATCOM System	04						U
67 1	1206438F	Space Control Technology	04	64,231				64,231	U
68 1	1206730F	Space Security and Defense Program	04	56,385				56,385	U
69 1	1206760F	Protected Tactical Enterprise Service (PTES)	04	105,003				105,003	U
70 1	1206761F	Protected Tactical Service (PTS)	04	173,694				173,694	U
71 1	1206855F	Evolved Strategic SATCOM (ESS)	04	172,206				172,206	U
72 1	1206857F	Space Rapid Capabilities Office	04	33,742		17 , 885	17,885	51,627	
	Advan	ced Component Development & Prototype	es	8,436,279		44,335	44,335	8,480,614	
73 (0604200F	Future Advanced Weapon Analysis & Programs	05	246,200				246,200	U
74 0	0604201F	PNT Resiliency, Mods, and Improvements	05	67 , 782				67 , 782	U
75 0	0604222F	Nuclear Weapons Support	05	4,406				4,406	U
76 0	0604270F	Electronic Warfare Development	05	2,066				2,066	U
77 0	0604281F	Tactical Data Networks Enterprise	05	229,631				229,631	U
78 0	0604287F	Physical Security Equipment	05	9,700				9,700	U
79 0	0604329F	Small Diameter Bomb (SDB) - EMD	05	31,241				31,241	U
80 0	0604429F	Airborne Electronic Attack	05	2				2	U
81 0	0604602F	Armament/Ordnance Development	05	28,043				28,043	U
82 0	0604604F	Submunitions	05	3,045				3,045	U
83 0	0604617F	Agile Combat Support	05	19,944				19,944	U

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	Program Element Number	Item 	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	s e c
84	0604706F	Life Support Systems	05	10,342	8,919		8,919	U
85	0604735F	Combat Training Ranges	05	75 , 981	43,895		43,895	U
86	0604800F	F-35 - EMD	05	282,126	69,001		69,001	U
87	0604932F	Long Range Standoff Weapon	05	437,521	664,920		664,920	U
88	0604933F	ICBM Fuze Modernization	05	166,571	167,659		167,659	U
89	0605030F	Joint Tactical Network Center (JTNC)	05	404				U
90	0605031F	Joint Tactical Network (JTN)	05	1,331				U
91	0605056F	Open Architecture Management	05					U
92	0605213F	F-22 Modernization Increment 3.2B	05	10,482				U
93	0605221F	KC-46	05	75 , 598	80,170		80,170	U
94	0605223F	Advanced Pilot Training	05	82,628	245,465		245,465	U
95	0605229F	Combat Rescue Helicopter	05	342,030	445,652		445,652	U
96	0605458F	Air & Space Ops Center 10.2 RDT&E	05	4,666				U
97	0605830F	Acq Workforce- Global Battle Mgmt	05		3,617		3,617	U
98	0605931F	B-2 Defensive Management System	05	148,946	253,258		253,258	U
99	0101125F	Nuclear Weapons Modernization	05	81,631	81,592		81,592	U
100	0101213F	Minuteman Squadrons	05					U
101	0207171F	F-15 EPAWSS	05	202,167	137,095		137,095	U
102	0207328F	Stand In Attack Weapon	05	3,288	14,975		14,975	U
103	0207701F	Full Combat Mission Training	05	8,427	1,015		1,015	U

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FY 2020 OCO for

Line No	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
84	0604706F	Life Support Systems	05	8,624				8,624	U
85	0604735F	Combat Training Ranges	05	37,365				37 , 365	U
86	0604800F	F-35 - EMD	05	7,628				7,628	U
87	0604932F	Long Range Standoff Weapon	05	712,539				712,539	U
88	0604933F	ICBM Fuze Modernization	05	161,199				161,199	U
89	0605030F	Joint Tactical Network Center (JTNC)	05	2,414				2,414	U
90	0605031F	Joint Tactical Network (JTN)	05						U
91	0605056F	Open Architecture Management	05	30,000				30,000	U
92	0605213F	F-22 Modernization Increment 3.2B	05						U
93	0605221F	KC-46	05	59,561				59,561	U
94	0605223F	Advanced Pilot Training	05	348,473				348,473	U
95	0605229F	Combat Rescue Helicopter	05	247,047				247,047	U
96	0605458F	Air & Space Ops Center 10.2 RDT&E	05						U
97	0605830F	Acq Workforce- Global Battle Mgmt	05						U
98	0605931F	B-2 Defensive Management System	05	294,400				294,400	U
99	0101125F	Nuclear Weapons Modernization	05	27,564				27,564	U
100	0101213F	Minuteman Squadrons	05	1				1	U
101	0207171F	F-15 EPAWSS	05	47,322				47,322	U
102	0207328F	Stand In Attack Weapon	05	162,840				162,840	U
103	0207701F	Full Combat Mission Training	05	9,797				9,797	U

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	Program Element Number	Item 	Act	FY 2018 (Base + OCO)		FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
104	0303267F	Auctioned Spectrum Relocation Fund	05	60,546				U
105	0307581F	JSTARS Recap	05	390,713				U
106	0401310F	C-32 Executive Transport Recapitalization	05	2,918	7,943		7,943	U
107	0401319F	VC-25B	05	418,500	657 , 932		657 , 932	U
108	0701212F	Automated Test Systems	05	17,850	13,653		13,653	U
109	1203176F	Combat Survivor Evader Locator	05	24,099	939		939	U
110	1203269F	GPS III Follow-On (GPS IIIF)	05		426,889		426,889	U
111	1203940F	Space Situation Awareness Operation:	s 05	9,684	46,015		46,015	U
112	1206421F	Counterspace Systems	05	64,208	20,242		20,242	U
113	1206422F	Weather System Follow-on	05					U
114	1206425F	Space Situation Awareness Systems	05	47,580	134,464		134,464	U
115	1206426F	Space Fence	05	34,022	19,425		19,425	U
116	1206431F	Advanced EHF MILSATCOM (SPACE)	05	134,775	144,753		144,753	U
117	1206432F	Polar MILSATCOM (SPACE)	05	32,536	26,380		26,380	U
118	1206433F	Wideband Global SATCOM (SPACE)	05	6,535	3,970		3,970	U
119	1206441F	Space Based Infrared System (SBIRS) High EMD	05	119,585	60,565		60,565	U
120	1206442F	Next Generation OPIR	05	439,497	643,126		643,126	U
121	1206445F	Commercial SATCOM (COMSATCOM) Integration	05		49,500		49,500	U

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FY 2020 OCO for

	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
104	0303267F	Auctioned Spectrum Relocation Fund	05						U
105	0307581F	JSTARS Recap	05						U
106	0401310F	C-32 Executive Transport Recapitalization	05	9,930				9,930	U
107	0401319F	VC-25B	05	757 , 923				757 , 923	U
108	0701212F	Automated Test Systems	05	2,787				2 , 787	U
109	1203176F	Combat Survivor Evader Locator	05	2,000				2,000	U
110	1203269F	GPS III Follow-On (GPS IIIF)	05	462,875				462,875	U
111	1203940F	Space Situation Awareness Operations	s 05	76,829				76 , 829	U
112	1206421F	Counterspace Systems	05	29,037				29,037	U
113	1206422F	Weather System Follow-on	05	2,237				2,237	U
114	1206425F	Space Situation Awareness Systems	05	412,894				412,894	U
115	1206426F	Space Fence	05						U
116	1206431F	Advanced EHF MILSATCOM (SPACE)	05	117,290				117,290	U
117	1206432F	Polar MILSATCOM (SPACE)	05	427,400				427,400	U
118	1206433F	Wideband Global SATCOM (SPACE)	05	1,920				1,920	U
119	1206441F	Space Based Infrared System (SBIRS) High EMD	05	1				1	U
120	1206442F	Next Generation OPIR	05	1,395,278				1,395,278	U
121	1206445F	Commercial SATCOM (COMSATCOM) Integration	05						U

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	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	s e c
122	1206853F	National Security Space Launch Program (SPACE) - EMD	05	381 , 877	443,035		443,035	U
	Syste	m Development & Demonstration		4,407,341	5,453,523		5,453,523	
123	0604256F	Threat Simulator Development	06	34,777	34,206		34,206	U
124	0604759F	Major T&E Investment	06	111,138	216,844		216,844	U
125	0605101F	RAND Project Air Force	06	33,089	34,614		34,614	U
126	0605502F	Small Business Innovation Research	06	663,657				U
127	0605712F	Initial Operational Test & Evaluation	06	15,523	18,043		18,043	U
128	0605807F	Test and Evaluation Support	06	735 , 688	692,784		692 , 784	U
129	0605826F	Acq Workforce- Global Power	06	216,144	227,824		227,824	U
130	0605827F	Acq Workforce- Global Vig & Combat Sys	06	225,854	256,617		256,617	U
131	0605828F	Acq Workforce- Global Reach	06	138,491	149,586		149,586	U
132	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	205,643	226,257		226,257	U
133	0605830F	Acq Workforce- Global Battle Mgmt	06	146,852	165,438		165,438	U
134	0605831F	Acq Workforce- Capability Integration	06	221,676	220,320		220,320	U
135	0605832F	Acq Workforce- Advanced Prgm Technology	06	27 , 997	37,399		37,399	U
136	0605833F	Acq Workforce- Nuclear Systems	06	124,111	122,481		122,481	U
137	0605898F	Management HQ - R&D	06	9,394	10,364		10,364	U

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	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
122	1206853F	National Security Space Launch Program (SPACE) - EMD	05	432,009				432,009	
	Syste	m Development & Demonstration		6,929,244				6,929,244	
123	0604256F	Threat Simulator Development	06	59,693				59,693	U
124	0604759F	Major T&E Investment	06	181,663				181,663	U
125	0605101F	RAND Project Air Force	06	35,258				35 , 258	U
126	0605502F	Small Business Innovation Research	06						U
127	0605712F	Initial Operational Test & Evaluation	06	13,793				13,793	U
128	0605807F	Test and Evaluation Support	06	717,895				717,895	U
129	0605826F	Acq Workforce- Global Power	06	258,667				258 , 667	U
130	0605827F	Acq Workforce- Global Vig & Combat Sys	06	251,992				251,992	Ū
131	0605828F	Acq Workforce- Global Reach	06	149,191				149,191	U
132	0605829F	Acq Workforce- Cyber, Network, & Bus Sys	06	235,360				235,360	Ū
133	0605830F	Acq Workforce- Global Battle Mgmt	06	160,196				160,196	U
134	0605831F	Acq Workforce- Capability Integration	06	220,255				220,255	Ū
135	0605832F	Acq Workforce- Advanced Prgm Technology	06	42,392				42,392	U
136	0605833F	Acq Workforce- Nuclear Systems	06	133,231				133,231	U
137	0605898F	Management HQ - R&D	06	5,590				5,590	U

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	Program Element Number		Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted		S e c
138	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	135,507	187,216		187,216	Ū
139	0605978F	Facilities Sustainment - Test and Evaluation Support	06	28,720	28,888		28,888	U
140	0606017F	Requirements Analysis and Maturation	06	106,646	48,070		48,070	U
141	0606398F	Management HQ - T&E	06					U
142	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	18,980	20,435		20,435	U
143	0702806F	Acquisition and Management Support	06	14,706	12,367		12,367	U
144	0804731F	General Skill Training	06	457	448		448	U
145	0909999F	Financing for Cancelled Account Adjustments	06	391				U
146	1001004F	International Activities	06	4,418	3,998		3,998	U
147	1206116F	Space Test and Training Range Development	06	24,886	23,157		23,157	U
148	1206392F	Space and Missile Center (SMC) Civilian Workforce	06	175,247	169,912		169,912	U
149	1206398F	Space & Missile Systems Center - MHA	06	8,681	10,508		10,508	U
150	1206860F	Rocket Systems Launch Program (SPACE)	06	33,023	19,721		19,721	U
151	1206864F	Space Test Program (STP)	06	29,016	25 , 620		25,620	U
	Manag	ement Support		3,490,712	2,963,117		2,963,117	
152	0604003F	Advanced Battle Management System (ABMS)	07		27 , 883		27,883	U

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	Program Element Number		Act	FY 2020 Base	-	Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
									-
138	0605976F	Facilities Restoration and Modernization - Test and Evaluation Support	06	88,445				88,445	U
139	0605978F	Facilities Sustainment - Test and Evaluation Support	06	29,424				29,424	U
140	0606017F	Requirements Analysis and Maturation	06	62,715				62 , 715	U
141	0606398F	Management HQ - T&E	06	5,013				5,013	U
142	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	06	17,128				17,128	U
143	0702806F	Acquisition and Management Support	06	5,913				5,913	U
144	0804731F	General Skill Training	06	1,475				1,475	U
145	0909999F	Financing for Cancelled Account Adjustments	06						U
146	1001004F	International Activities	06	4,071				4,071	U
147	1206116F	Space Test and Training Range Development	06	19,942				19,942	U
148	1206392F	Space and Missile Center (SMC) Civilian Workforce	06	167,810				167,810	U
149	1206398F	Space & Missile Systems Center - MHA	06	10,170				10,170	U
150	1206860F	Rocket Systems Launch Program (SPACE)	06	13,192				13,192	U
151	1206864F	Space Test Program (STP)	06	26 , 097				26 , 097	
	Manag	ement Support		2,916,571				2,916,571	
152	0604003F	Advanced Battle Management System	07	35,611				35,611	U

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	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
153	0604222F	Nuclear Weapons Support	07	26,672				U
154	0604233F	Specialized Undergraduate Flight Training	07	6,269	11,344		11,344	U
155	0604445F	Wide Area Surveillance	07	37,750				U
156	0604776F	Deployment & Distribution Enterprise R&D	07					U
157	0604840F	F-35 C2D2	07					U
158	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	17,298	41,058		41,058	U
159	0605024F	Anti-Tamper Technology Executive Agency	07	37,304	32,770		32,770	U
160	0605117F	Foreign Materiel Acquisition and Exploitation	07	66,653	68,368		68,368	U
161	0605278F	HC/MC-130 Recap RDT&E	07	30,784	16,174		16,174	U
162	0606018F	NC3 Integration	07	12,382	19,312		19,312	U
163	0606942F	Assessments and Evaluations Cyber Vulnerabilities	07		87 , 800		87 , 800	U
164	0101113F	B-52 Squadrons	07	107,936	291,264	34,000	325,264	U
165	0101122F	Air-Launched Cruise Missile (ALCM)	07	446	5,955		5,955	U
166	0101126F	B-1B Squadrons	07	60,367	60,295		60,295	U
167	0101127F	B-2 Squadrons	07	89,781	105,508		105,508	U
168	0101213F	Minuteman Squadrons	07	204,208	154,733		154,733	U

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Line No	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
153	0604222F	Nuclear Weapons Support	07						U
154	0604233F	Specialized Undergraduate Flight Training	07	2,584				2,584	U
155	0604445F	Wide Area Surveillance	07						U
156	0604776F	Deployment & Distribution Enterprise R&D	07	903				903	U
157	0604840F	F-35 C2D2	07	694,455				694,455	U
158	0605018F	AF Integrated Personnel and Pay System (AF-IPPS)	07	40,567				40,567	U
159	0605024F	Anti-Tamper Technology Executive Agency	07	47,193				47,193	U
160	0605117F	Foreign Materiel Acquisition and Exploitation	07	70,083				70,083	Ū
161	0605278F	HC/MC-130 Recap RDT&E	07	17,218				17,218	U
162	0606018F	NC3 Integration	07	25,917				25,917	U
163	0606942F	Assessments and Evaluations Cyber Vulnerabilities	07						U
164	0101113F	B-52 Squadrons	07	325,974				325,974	U
165	0101122F	Air-Launched Cruise Missile (ALCM)	07	10,217				10,217	U
166	0101126F	B-1B Squadrons	07	1,000				1,000	U
167	0101127F	B-2 Squadrons	07	97 , 276				97,276	U
168	0101213F	Minuteman Squadrons	07	128,961				128,961	U

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Line No	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e . c
								_
169	0101313F	Integrated Strategic Planning and Analysis Network (ISPAN) - USSTRATCOM	07	24,898				Ū
170	0101316F	Worldwide Joint Strategic Communications	07	12,868	18,442		18,442	U
171	0101324F	Integrated Strategic Planning & Analysis Network	07	10,757	22,833		22,833	U
172	0101328F	ICBM Reentry Vehicles	07		14,167		14,167	U
174	0102110F	UH-1N Replacement Program	07	188,259	258,022		258,022	U
175	0102326F	Region/Sector Operation Control Center Modernization Program	07	3,766	6,112		6,112	U
176	0205219F	MQ-9 UAV	07	184,353	104,345	4,500	108,845	U
177	0205671F	Joint Counter RCIED Electronic Warfare	07			4,000	4,000	U
178	0207131F	A-10 Squadrons	07	17,459	26,738	1,000	27,738	U
179	0207133F	F-16 Squadrons	07	250,264	185,864		185,864	U
180	0207134F	F-15E Squadrons	07	308,218	203,183		203,183	U
181	0207136F	Manned Destructive Suppression	07	11,735	15,238		15,238	U
182	0207138F	F-22A Squadrons	07	584,004	584,743		584,743	U
183	0207142F	F-35 Squadrons	07	325,224	503,928		503,928	U
184	0207161F	Tactical AIM Missiles	07	36,303	37,230		37,230	U
185	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	51,374	57,293		57,293	U
186	0207227F	Combat Rescue - Pararescue	07	685	647		647	U

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Progra Line Elemer No Number	t Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c -
169 010131	3F Integrated Strategic Planning and Analysis Network (ISPAN) - USSTRATCOM	07						Ū
170 010131	6F Worldwide Joint Strategic Communications	07	18,177				18,177	Ū
171 010132	4F Integrated Strategic Planning & Analysis Network	07	24,261				24,261	Ū
172 010132	8F ICBM Reentry Vehicles	07	75 , 571				75 , 571	U
174 010211	OF UH-1N Replacement Program	07	170,975				170,975	U
175 010232	6F Region/Sector Operation Control Center Modernization Program	07						U
176 020521	9F MQ-9 UAV	07	154,996				154 , 996	U
177 020567	1F Joint Counter RCIED Electronic Warfare	07			4,000	4,000	4,000	U
178 020713	1F A-10 Squadrons	07	36,816				36,816	U
179 020713	3F F-16 Squadrons	07	193,013				193,013	U
180 020713	4F F-15E Squadrons	07	336,079				336,079	U
181 020713	6F Manned Destructive Suppression	07	15,521				15,521	U
182 020713	8F F-22A Squadrons	07	496,298				496,298	U
183 020714	2F F-35 Squadrons	07	99,943				99,943	U
184 020716	1F Tactical AIM Missiles	07	10,314				10,314	U
185 020716	3F Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	55 , 384				55,384	U
186 020722	7F Combat Rescue - Pararescue	07	281				281	U

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

	Program Element Number		Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e . c
187	0207247F	AF TENCAP	07					U
188	0207249F	Precision Attack Systems Procurement	07	1,651	14,891		14,891	U
189	0207253F	Compass Call	07	34,240	43,901		43,901	U
190	0207268F	Aircraft Engine Component Improvement Program	07	105,664	121,203		121,203	U
191	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	29,436	42,472		42,472	U
192	0207410F	Air & Space Operations Center (AOC)	07	86,456	104,954		104,954	U
193	0207412F	Control and Reporting Center (CRC)	07	2,374	6,413		6,413	U
194	0207417F	Airborne Warning and Control System (AWACS)	07	118,702	112,280		112,280	U
195	0207418F	Tactical Airborne Control Systems	07	3,522	2,659		2,659	U
197	0207431F	Combat Air Intelligence System Activities	07	15,821	10,316		10,316	U
198	0207444F	Tactical Air Control Party-Mod	07	10,623	6,149		6,149	U
199	0207448F	C2ISR Tactical Data Link	07	1,754	538		538	U
200	0207452F	DCAPES	07	12,423	13,248		13,248	U
201	0207573F	National Technical Nuclear Forensics	07	2,307	1,788		1,788	U
202	0207590F	Seek Eagle	07	25,304	24,699		24,699	U
203	0207601F	USAF Modeling and Simulation	07	9,803	17,078		17,078	U
204	0207605F	Wargaming and Simulation Centers	07	12,369	6,141		6,141	U
205	0207610F	Battlefield Abn Comm Node (BACN)	07			42,349	42,349	U

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

FY 2020 OCO for

	Program Element Number		Act	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
	0207247F	AF TENCAP	07	21,365				21,365	U
188	0207249F	Precision Attack Systems Procurement	07	10,696				10,696	U
189	0207253F	Compass Call	07	15,888				15,888	U
190	0207268F	Aircraft Engine Component Improvement Program	07	112,505				112,505	Ū
191	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	07	78,498				78,498	U
192	0207410F	Air & Space Operations Center (AOC)	07	114,864				114,864	U
193	0207412F	Control and Reporting Center (CRC)	07	8,109				8,109	U
194	0207417F	Airborne Warning and Control System (AWACS)	07	67,996				67 , 996	U
195	0207418F	Tactical Airborne Control Systems	07	2,462				2,462	U
197	0207431F	Combat Air Intelligence System Activities	07	13,668				13,668	U
198	0207444F	Tactical Air Control Party-Mod	07	6,217				6,217	U
199	0207448F	C2ISR Tactical Data Link	07						U
200	0207452F	DCAPES	07	19,910				19,910	U
201	0207573F	National Technical Nuclear Forensics	07	1,788				1,788	U
202	0207590F	Seek Eagle	07	28,237				28,237	U
203	0207601F	USAF Modeling and Simulation	07	15 , 725				15,725	U
204	0207605F	Wargaming and Simulation Centers	07	4,316				4,316	U
205	0207610F	Battlefield Abn Comm Node (BACN)	07	26,946				26,946	U

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

	Program Element Number		Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
206	0207697F	Distributed Training and Exercises	07	4,046	3,825		3,825	U
207	0208006F	Mission Planning Systems	07	82,054	63,074		63,074	U
208	0208007F	Tactical Deception	07	3,623	6,949		6,949	U
209	0208064F	OPERATIONAL HQ - CYBER	07					U
210	0208087F	Distributed Cyber Warfare Operations	07	38,241	40,168		40,168	U
211	0208088F	AF Defensive Cyberspace Operations	07	19,628	38 , 387		38,387	U
212	0208097F	Joint Cyber Command and Control (JCC2)	07		13,000		13,000	U
213	0208099F	Unified Platform (UP)	07		26,559		26 , 559	U
217	0208288F	Intel Data Applications	07			1,200	1,200	U
218	0301017F	Global Sensor Integrated on Network (GSIN)	07	3,439	3,579		3,579	U
219	0301025F	GeoBase	07					U
220	0301112F	Nuclear Planning and Execution System (NPES)	07	5,056	29,620		29,620	U
226	0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07	3,721	6,633		6,633	U
227	0302015F	E-4B National Airborne Operations Center (NAOC)	07	37,481	57 , 758		57 , 758	U
228	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	34,466	64,543		64,543	U
229	0303133F	High Frequency Radio Systems	07		51,612		51,612	U
230	0303140F	Information Systems Security Program	07	41,067	33 , 979		33 , 979	U

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	Program Element Number		Act	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c -
206	0207697F	Distributed Training and Exercises	07	4,303				4,303	Ū
207	0208006F	Mission Planning Systems	07	71,465				71,465	U
	0208007F	Tactical Deception	07	7 , 446				7,446	
	0208064F	OPERATIONAL HQ - CYBER	07	7,602				7,602	
	0208087F	Distributed Cyber Warfare Operations		35,178				35,178	
		AF Defensive Cyberspace Operations	07	•				16,609	
	0208088F			16,609				•	
212	0208097F	Joint Cyber Command and Control (JCC2)	07	11,603				11,603	Ū
213	0208099F	Unified Platform (UP)	07	84,702				84,702	U
217	0208288F	Intel Data Applications	07			1,200	1,200	1,200	U
218	0301017F	Global Sensor Integrated on Network (GSIN)	07						U
219	0301025F	GeoBase	07	2,723				2,723	U
220	0301112F	Nuclear Planning and Execution System (NPES)	07	44,190				44,190	U
226	0301401F	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	07	3,575				3,575	U
227	0302015F	E-4B National Airborne Operations Center (NAOC)	07	70,173				70,173	U
228	0303131F	Minimum Essential Emergency Communications Network (MEECN)	07	13,543				13,543	U
229	0303133F	High Frequency Radio Systems	07	15,881				15,881	U

27,726

R-120PB: FY 2020 President's Budget (Published Version), as of February 19, 2019 at 15:33:03

230 0303140F Information Systems Security Program 07

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	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
231	0303141F	Global Combat Support System	07	101				U
232	0303142F	Global Force Management - Data Initiative	07	1,944	2,170		2,170	U
234	0304115F	Multi Domain Command and Control (MDC2)	07					U
235	0304260F	Airborne SIGINT Enterprise	07	116,186	109,873		109,873	U
236	0304310F	Commercial Economic Analysis	07	3,544	3,472		3,472	U
239	0305015F	C2 Air Operations Suite - C2 Info Services	07		8,608		8,608	U
240	0305020F	CCMD Intelligence Information Technology	07	1,542	1,586		1,586	U
241	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07					U
242	0305099F	Global Air Traffic Management (GATM)	07	4,887	4,106		4,106	U
243	0305111F	Weather Service	07	35,689	31,615	3,000	34,615	U
244	0305114F	Air Traffic Control, Approach, and Landing System (ATCALS)	07	5,791	13,271		13,271	U
245	0305116F	Aerial Targets	07	20,944	6,683		6,683	U
248	0305128F	Security and Investigative Activities	07	400	418		418	U
249	0305145F	Arms Control Implementation	07		21,374		21,374	U
250	0305146F	Defense Joint Counterintelligence Activities	07	4,520	3,845		3,845	U
252	0305179F	Integrated Broadcast Service (IBS)	07					U

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Total Obligational Authority 19 Feb 2019
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F.X	2020
OCO	for

No	Program Element Number		Act 	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e C -
231	0303141F	Global Combat Support System	07						U
232	0303142F	Global Force Management - Data Initiative	07	2,210				2,210	U
234	0304115F	Multi Domain Command and Control (MDC2)	07	150,880				150,880	U
235	0304260F	Airborne SIGINT Enterprise	07	102,667				102,667	U
236	0304310F	Commercial Economic Analysis	07	3,431				3,431	U
239	0305015F	C2 Air Operations Suite - C2 Info Services	07	9,313				9,313	U
240	0305020F	CCMD Intelligence Information Technology	07	1,121				1,121	U
241	0305022F	ISR Modernization & Automation Dvmt (IMAD)	07	19,000				19,000	U
242	0305099F	Global Air Traffic Management (GATM)	07	4,544				4,544	U
243	0305111F	Weather Service	07	25,461				25,461	U
244	0305114F	Air Traffic Control, Approach, and Landing System (ATCALS)	07	5 , 651				5,651	U
245	0305116F	Aerial Targets	07	7,448				7,448	U
248	0305128F	Security and Investigative Activities	07	425				425	U
249	0305145F	Arms Control Implementation	07	54,546				54,546	U
250	0305146F	Defense Joint Counterintelligence Activities	07	6 , 858				6,858	U
252	0305179F	Integrated Broadcast Service (IBS)	07	8,728				8,728	U

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	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
253	0305202F	Dragon U-2	07	34,486	65,518	22,100	87,618	U
254	0305205F	Endurance Unmanned Aerial Vehicles	07	40,000	15,000		15,000	U
255	0305206F	Airborne Reconnaissance Systems	07	19,450	195,334		195,334	U
256	0305207F	Manned Reconnaissance Systems	07	14,297	14,223		14,223	U
257	0305208F	Distributed Common Ground/Surface Systems	07	38,064	24,554	29,500	54,054	U
258	0305220F	RQ-4 UAV	07	222,693	221,690		221,690	U
259	0305221F	Network-Centric Collaborative Targeting	07	14,837	14,288		14,288	U
260	0305238F	NATO AGS	07	44,729	51,527		51 , 527	U
261	0305240F	Support to DCGS Enterprise	07	26,349	26,579		26 , 579	U
262	0305600F	International Intelligence Technology and Architectures	07	9,491	8,464		8,464	U
263	0305881F	Rapid Cyber Acquisition	07	4,720	4,303		4,303	U
264	0305984F	Personnel Recovery Command & Ctrl (PRC2)	07	2,364	2,466		2,466	U
265	0307577F	Intelligence Mission Data (IMD)	07	8,684	4,117		4,117	U
266	0401115F	C-130 Airlift Squadron	07	10,219	105,988		105,988	U
267	0401119F	C-5 Airlift Squadrons (IF)	07	11,433	25,071		25,071	U
268	0401130F	C-17 Aircraft (IF)	07	21,701	48,299		48,299	U
269	0401132F	C-130J Program	07	24,908	15,409		15,409	U
270	0401134F	Large Aircraft IR Countermeasures (LAIRCM)	07	5,095	4,334		4,334	U

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F.X	2020
OCC) for

Progra Line Elemen No Numbe:	nt c Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
253 030520	02F Dragon U-2	07	38,939				38,939	U
254 030520	D5F Endurance Unmanned Aerial Vehicles	07						U
255 030520	06F Airborne Reconnaissance Systems	07	122,909				122,909	U
256 030520	7F Manned Reconnaissance Systems	07	11,787				11,787	U
257 030520	Distributed Common Ground/Surface Systems	07	25,009				25 , 009	U
258 030522	20F RQ-4 UAV	07	191,733				191,733	U
259 030522	21F Network-Centric Collaborative Targeting	07	10,757				10,757	U
260 03052	88F NATO AGS	07	32,567				32,567	U
261 03052	10F Support to DCGS Enterprise	07	37,774				37,774	U
262 030560	OOF International Intelligence Technology and Architectures	07	13,515				13,515	U
263 03058	Rapid Cyber Acquisition	07	4,383				4,383	U
264 030598	Personnel Recovery Command & Ctrl (PRC2)	07	2,133				2,133	U
265 03075	77F Intelligence Mission Data (IMD)	07	8,614				8,614	U
266 040113	.5F C-130 Airlift Squadron	07	140,425				140,425	U
267 040113	.9F C-5 Airlift Squadrons (IF)	07	10,223				10,223	U
268 040113	80F C-17 Aircraft (IF)	07	25,101				25 , 101	U
269 040113	32F C-130J Program	07	8,640				8,640	U
270 040113	AF Large Aircraft IR Countermeasures (LAIRCM)	07	5,424				5,424	U

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	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e l c
271	0401218F	KC-135s	07	8,645	3,493		3,493	U
272	0401219F	KC-10s	07	9,181	6,569		6,569	U
273	0401314F	Operational Support Airlift	07	5,196	3,172		3,172	U
274	0401318F	CV-22	07	17,744	16,502		16,502	U
275	0401840F	AMC Command and Control System	07	3,394	1,688		1,688	U
276	0408011F	Special Tactics / Combat Control	07	7,726	2,433		2,433	U
277	0702207F	Depot Maintenance (Non-IF)	07	1,517	1,897		1,897	U
278	0708055F	Maintenance, Repair & Overhaul System	07	28,726	50,933		50,933	U
279	0708610F	Logistics Information Technology (LOGIT)	07	23,332	13,479		13,479	U
280	0708611F	Support Systems Development	07	11,362	4,497		4,497	U
281	0804743F	Other Flight Training	07	1,998	2,022		2,022	U
282	0808716F	Other Personnel Activities	07	103	108		108	U
283	0901202F	Joint Personnel Recovery Agency	07	1,933	2,023		2,023	U
284	0901218F	Civilian Compensation Program	07	2,905	3,561		3,561	U
285	0901220F	Personnel Administration	07	5,404	4,258		4,258	U
286	0901226F	Air Force Studies and Analysis Agency	07	1,506	1,418		1,418	U
287	0901538F	Financial Management Information Systems Development	07	87 , 802	93,418		93,418	U
288	0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07					U

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F.X	2020
OCO	for

Program Line Element No Number	Item	Act 	FY 2020 Base	FY 2020 OCO for Base Requirements	Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	s e c
271 0401218F	KC-135s	07						U
272 0401219F	KC-10s	07	20				20	U
273 0401314F	Operational Support Airlift	07						U
274 0401318F	CV-22	07	17,906				17,906	U
275 0401840F	AMC Command and Control System	07						U
276 0408011F	Special Tactics / Combat Control	07	3,629				3,629	U
277 0702207F	Depot Maintenance (Non-IF)	07	1,890				1,890	U
278 0708055F	Maintenance, Repair & Overhaul System	07	10,311				10,311	U
279 0708610F	Logistics Information Technology (LOGIT)	07	16,065				16,065	U
280 0708611F	Support Systems Development	07	539				539	U
281 0804743F	Other Flight Training	07	2,057				2,057	U
282 0808716F	Other Personnel Activities	07	10				10	U
283 0901202F	Joint Personnel Recovery Agency	07	2,060				2,060	U
284 0901218F	Civilian Compensation Program	07	3,809				3,809	U
285 0901220F	Personnel Administration	07	6,476				6,476	U
286 0901226F	Air Force Studies and Analysis Agency	07	1,443				1,443	U
287 0901538F	Financial Management Information Systems Development	07	9,323				9,323	U
288 0901554F	Defense Enterprise Acntng and Mgt Sys (DEAMS)	07	46,789				46,789	U

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	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	S e c
289	1201017F	Global Sensor Integrated on Network (GSIN)						U
290	1201921F	Service Support to STRATCOM - Space Activities	07	13,769	14,161		14,161	U
291	1202140F	Service Support to SPACECOM Activities	07					U
292	1202247F	AF TENCAP	07	80 , 726	26,986	5,000	31,986	U
293	1203001F	Family of Advanced BLoS Terminals (FAB-T)	07	26,262	60,168		60,168	U
294	1203110F	Satellite Control Network (SPACE)	07	18,133	26,440		26,440	U
296	1203165F	NAVSTAR Global Positioning System (Space and Control Segments)	07	7,681	8,937		8,937	U
297	1203173F	Space and Missile Test and Evaluation Center	07	43,715	79 , 935		79,935	U
298	1203174F	Space Innovation, Integration and Rapid Technology Development	07	9,081	21,019		21,019	U
299	1203179F	Integrated Broadcast Service (IBS)	07	8,747	8,568		8,568	U
300	1203182F	Spacelift Range System (SPACE)	07	20,035	20,168		20,168	U
301	1203265F	GPS III Space Segment	07	233,043	141,892		141,892	U
302	1203400F	Space Superiority Intelligence	07	10,691	16,278		16,278	U
303	1203614F	JSpOC Mission System	07	125,191	70,383		70,383	U
304	1203620F	National Space Defense Center	07	18,052	55,309		55 , 309	U
305	1203699F	Shared Early Warning (SEW)	07	1,327				U
306	1203873F	Ballistic Missile Defense Radars	07					U

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				FY 2020 OCO for			
Program			FY 2020	Direct War	FY 2020	FY 2020	S
Line Element		FY 2020	OCO for Base	and Enduring	Total	Total	е
No Number Item	Act	Base	Requirements	Costs	oco	(Base + OCO)	С
							-

No	Number	Item	Act	Base	Requirements	Costs	0C0	(Base + OCO)	C -
28	9 1201017F	Global Sensor Integrated on Network (GSIN)	07	3,647				3,647	Ū
29	00 1201921F	Service Support to STRATCOM - Space Activities	07	988				988	U
29	01 1202140F	Service Support to SPACECOM Activities	07	11,863				11,863	Ū
29	2 1202247F	AF TENCAP	07						U
29	3 1203001F	Family of Advanced BLoS Terminals (FAB-T)	07	197,388				197,388	U
29	94 1203110F	Satellite Control Network (SPACE)	07	61,891				61,891	U
29	06 1203165F	NAVSTAR Global Positioning System (Space and Control Segments)	07						U
29	7 1203173F	Space and Missile Test and Evaluation Center	07	4,566				4,566	Ū
29	98 1203174F	Space Innovation, Integration and Rapid Technology Development	07	43,292				43,292	Ū
29	9 1203179F	Integrated Broadcast Service (IBS)	07						U
30	0 1203182F	Spacelift Range System (SPACE)	07	10,837				10,837	U
30	1 1203265F	GPS III Space Segment	07	42,440				42,440	U
30	2 1203400F	Space Superiority Intelligence	07	14,428				14,428	U
30	3 1203614F	JSpOC Mission System	07	72 , 762				72 , 762	U
30	4 1203620F	National Space Defense Center	07	2,653				2,653	U
30	5 1203699F	Shared Early Warning (SEW)	07						U
30	06 1203873F	Ballistic Missile Defense Radars	07	15,881				15,881	U

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

19 Feb 2019

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

Line No	Program Element Number	Item	Act	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted	s e c
307	1203906F	NCMC - TW/AA System	07	5,000				U
308	1203913F	NUDET Detection System (SPACE)	07	31,304	19,778		19,778	U
309	1203940F	Space Situation Awareness Operations	07	86,173	19,572		19,572	U
310	1206423F	Global Positioning System III - Operational Control Segment	07	492,986	509,258		509,258	U
311	1206770F	Enterprise Ground Services	07					U
9999	999999999	Classified Programs		16,789,633	16,859,524	161,790	17,021,314	U
	Opera-	tional Systems Development		22,442,379	23,153,697	308,439	23,462,136	
Tota	l Research,	Development, Test & Eval, AF		38,077,597	41,166,683	321,934	41,488,617	

Department of the Air Force FY 2020 President's Budget Exhibit R-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

FY 2020

19 Feb 2019

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

	Program Element Number	Item	Act	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO	FY 2020 Total (Base + OCO)	S e c
307	1203906F	NCMC - TW/AA System	07						U
308	1203913F	NUDET Detection System (SPACE)	07	49,300				49,300	U
309	1203940F	Space Situation Awareness Operations	s 07	17,834				17,834	U
310	1206423F	Global Positioning System III - Operational Control Segment	07	445,302				445,302	U
311	1206770F	Enterprise Ground Services	07	138,870				138,870	U
9999	999999999	Classified Programs		18,029,506	322,000	78,713	400,713	18,430,219	U
	Opera	tional Systems Development		24,529,488		83,913	405,913	24,935,401	
Total	l Research,	Development, Test & Eval, AF		45,616,122		128,248	450,248	46,066,370	