

# RDT&E PROGRAMS (R-1)



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*Department of Defense Budget  
Fiscal Year 2021*

*Feb 2020*

*Office of the Under Secretary of Defense (Comptroller)*

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**Preface**

**The RDT&E Programs (R-1) is derived from and consistent with the Comptroller Information System database.**

**The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal of the President's Budget. This document is also provided to Office of Assistance Secretary of Defense (Public Affairs) for use by non-DoD activities, and is available to the public on the Internet at <https://comptroller.defense.gov/>.**

**Office of the Under Secretary of Defense (Comptroller)**

*Preparation of the R-1 cost the Department of Defense a total of approximately \$38,000 in FY 2020.*

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<u>Appropriation</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
Research, Development, Test & Eval, Army	11,371,268	12,543,435		147,304	12,690,739
Research, Development, Test & Eval, Navy	18,738,363	20,155,115	130,444	164,410	20,449,969
Research, Development, Test & Eval, AF RDTE, Space Force	41,419,014	45,566,955		128,248	45,695,203
Research, Development, Test & Eval, DW	24,300,844	25,938,027		394,260	26,332,287
Operational Test & Eval, Defense	377,001	227,700			227,700
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>96,206,490</b>	<b>104,431,232</b>	<b>130,444</b>	<b>834,222</b>	<b>105,395,898</b>
 <u>Other RDT&amp;E Budget Activities Not Included in the Research, Development, Test and Evaluation Title</u>					
Office of the Inspector General	3,977	2,965			2,965
Defense Health Program	2,179,621	2,306,095			2,306,095
Chem Agents & Munitions Destruction	666,863	875,930			875,930
National Defense Sealift Fund	79,505				
<b>Total Not in Research, Development, Test &amp; Evaluati</b>	<b>2,929,966</b>	<b>3,184,990</b>			<b>3,184,990</b>

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<u>Appropriation</u>	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)
Research, Development, Test & Eval, Army	12,587,343		182,824	182,824	12,770,167
Research, Development, Test & Eval, Navy	21,427,048		59,562	59,562	21,486,610
Research, Development, Test & Eval, AF	37,391,826		5,304	5,304	37,397,130
RDTE, Space Force	10,327,595				10,327,595
Research, Development, Test & Eval, DW	24,280,891		82,818	82,818	24,363,709
Operational Test & Eval, Defense	210,090				210,090
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>106,224,793</b>		<b>330,508</b>	<b>330,508</b>	<b>106,555,301</b>
 <u>Other RDT&amp;E Budget Activities Not Included in the Research, Development, Test and Evaluation Title</u>					
Office of the Inspector General	1,098				1,098
Defense Health Program	562,465				562,465
Chem Agents & Munitions Destruction	782,193				782,193
National Defense Sealift Fund					
<b>Total Not in Research, Development, Test &amp; Evaluati</b>	<b>1,345,756</b>				<b>1,345,756</b>

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<u>Summary Recap of Budget Activities</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
Basic Research	2,475,652	2,603,345			2,603,345
Applied Research	5,912,090	6,069,767		1,677	6,071,444
Advanced Technology Development	6,929,130	7,312,097		74,758	7,386,855
Advanced Component Development & Prototypes	21,454,397	26,998,030		209,045	27,207,075
System Development & Demonstration	15,446,508	16,676,889		101,269	16,778,158
Management Support	9,073,952	7,084,548	130,444	1,875	7,216,867
Operational Systems Development	34,914,761	37,686,556		445,598	38,132,154
Software and Digital Technology Pilot Programs					
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>96,206,490</b>	<b>104,431,232</b>	<b>130,444</b>	<b>834,222</b>	<b>105,395,898</b>

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<u>Summary Recap of Budget Activities</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO for Base Requirements</u>	<u>FY 2021 OCO for Direct War and Enduring Costs</u>	<u>FY 2021 Total OCO</u>	<u>FY 2021 Total (Base + OCO)</u>
Basic Research	2,319,126				2,319,126
Applied Research	5,391,069		5,699	5,699	5,396,768
Advanced Technology Development	6,331,410		23,149	23,149	6,354,559
Advanced Component Development & Prototypes	28,390,621		77,869	77,869	28,468,490
System Development & Demonstration	16,426,864		98,969	98,969	16,525,833
Management Support	6,981,617		5,137	5,137	6,986,754
Operational Systems Development	39,687,350		119,685	119,685	39,807,035
Software and Digital Technology Pilot Programs	696,736				696,736
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>106,224,793</b>		<b>330,508</b>	<b>330,508</b>	<b>106,555,301</b>

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	<u>FY 2019</u> <u>(Base + OCO)</u>	<u>FY 2020</u> <u>Base Enacted</u>	<u>FY 2020</u> <u>Emergency</u>	<u>FY 2020</u> <u>OCO Enacted</u>	<u>FY 2020</u> <u>Total Enacted</u> <u>(Base+Emerg+ OCO)</u>
<b><u>Summary Recap of FYDP Programs</u></b>					
Strategic Forces	1,168,413	1,051,393			1,051,393
General Purpose Forces	5,624,183	6,370,045		20,200	6,390,245
Intelligence and Communications	3,393,004	3,300,878		37,368	3,338,246
Mobility Forces	894,433	936,221			936,221
Research and Development	56,088,048	60,687,002	130,444	367,539	61,184,985
Central Supply and Maintenance	268,746	227,425			227,425
Training Medical and Other	46,088	48,715			48,715
Administration and Associated Activities	154,644	125,345			125,345
Support of Other Nations	3,866	4,071			4,071
Special Operations Forces	606,348	833,768		11,726	845,494
Space	5,183,148	6,819,328		17,885	6,837,213
Classified Programs	22,775,569	24,027,041		379,504	24,406,545
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>96,206,490</b>	<b>104,431,232</b>	<b>130,444</b>	<b>834,222</b>	<b>105,395,898</b>
<b><u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u></b>					
Mobility Forces	79,505				
Research and Development	2,179,621	2,306,095			2,306,095
Central Supply and Maintenance	666,863	875,930			875,930
Administration and Associated Activities	3,977	2,965			2,965
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>2,929,966</b>	<b>3,184,990</b>			<b>3,184,990</b>

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	FY 2021 <u>Base</u>	FY 2021 <u>OCO for Base Requirements</u>	FY 2021 <u>OCO for Direct War and Enduring Costs</u>	FY 2021 <u>Total OCO</u>	FY 2021 <u>Total (Base + OCO)</u>
<b><u>Summary Recap of FYDP Programs</u></b>					
Strategic Forces	1,396,074				1,396,074
General Purpose Forces	6,804,192		10,604	10,604	6,814,796
Intelligence and Communications	3,127,666		76,942	76,942	3,204,608
Mobility Forces	1,048,447				1,048,447
Research and Development	59,539,532		206,923	206,923	59,746,455
Central Supply and Maintenance	219,250				219,250
Training Medical and Other	38,298				38,298
Administration and Associated Activities	110,091				110,091
Support of Other Nations	3,599				3,599
Special Operations Forces	713,740		11,982	11,982	725,722
Space	7,226,118				7,226,118
Classified Programs	25,997,786		24,057	24,057	26,021,843
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>106,224,793</b>		<b>330,508</b>	<b>330,508</b>	<b>106,555,301</b>
<b><u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u></b>					
Mobility Forces					
Research and Development	562,465				562,465
Central Supply and Maintenance	782,193				782,193
Administration and Associated Activities	1,098				1,098
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>1,345,756</b>				<b>1,345,756</b>

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<u>Summary Recap of Budget Activities</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
Basic Research	491,263	574,484			574,484
Applied Research	1,553,764	1,259,374			1,259,374
Advanced Technology Development	1,561,576	1,531,516			1,531,516
Advanced Component Development & Prototypes	1,213,569	2,975,681		11,114	2,986,795
System Development & Demonstration	3,119,552	2,989,779		100,147	3,089,926
Management Support	1,710,179	1,368,475		1,875	1,370,350
Operational Systems Development	1,721,365	1,844,126		34,168	1,878,294
Software and Digital Technology Pilot Programs					
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>11,371,268</b>	<b>12,543,435</b>		<b>147,304</b>	<b>12,690,739</b>
<u>Summary Recap of FYDP Programs</u>					
General Purpose Forces	646,373	765,324			765,324
Intelligence and Communications	311,699	236,563		37,368	273,931
Research and Development	10,090,836	11,139,975		109,936	11,249,911
Central Supply and Maintenance	106,766	108,348			108,348
Administration and Associated Activities	358				
Space	209,281	285,952			285,952
Classified Programs	5,955	7,273			7,273
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>11,371,268</b>	<b>12,543,435</b>		<b>147,304</b>	<b>12,690,739</b>

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<u>Summary Recap of Budget Activities</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO for Base Requirements</u>	<u>FY 2021 OCO for Direct War and Enduring Costs</u>	<u>FY 2021 Total OCO</u>	<u>FY 2021 Total (Base + OCO)</u>
Basic Research	463,359				463,359
Applied Research	920,881		2,000	2,000	922,881
Advanced Technology Development	1,203,590				1,203,590
Advanced Component Development & Prototypes	3,421,608		2,520	2,520	3,424,128
System Development & Demonstration	3,199,798		97,825	97,825	3,297,623
Management Support	1,333,123		5,137	5,137	1,338,260
Operational Systems Development	1,998,539		75,342	75,342	2,073,881
Software and Digital Technology Pilot Programs	46,445				46,445
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>12,587,343</b>		<b>182,824</b>	<b>182,824</b>	<b>12,770,167</b>
 <u>Summary Recap of FYDP Programs</u>					
General Purpose Forces	923,370		2,300	2,300	925,670
Intelligence and Communications	309,698		76,942	76,942	386,640
Research and Development	11,289,280		103,582	103,582	11,392,862
Central Supply and Maintenance	61,012				61,012
Administration and Associated Activities					
Space					
Classified Programs	3,983				3,983
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>12,587,343</b>		<b>182,824</b>	<b>182,824</b>	<b>12,770,167</b>

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Appropriation: 2040A Research, Development, Test &amp; Eval, Army

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	U
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	
1	0601101A	In-House Laboratory Independent Research	01	11,391					U
2	0601102A	Defense Research Sciences	01	306,347	354,480			354,480	U
3	0601103A	University Research Initiatives	01	62,813	87,858			87,858	U
4	0601104A	University and Industry Research Centers	01	110,712	127,164			127,164	U
5	0601121A	Cyber Collaborative Research Alliance	01		4,982			4,982	U
		<b>Basic Research</b>		<b>491,263</b>	<b>574,484</b>			<b>574,484</b>	
6	0602105A	Materials Technology	02	79,432					U
7	0602115A	Biomedical Technology	02						U
8	0602120A	Sensors and Electronic Survivability	02	90,023					U
9	0602122A	TRACTOR HIP	02	8,674					U
10	0602126A	TRACTOR JACK	02	400					U
11	0602134A	Counter Improvised-Threat Advanced Studies	02						U
12	0602141A	Lethality Technology	02		69,961			69,961	U
13	0602142A	Army Applied Research	02		30,819			30,819	U
14	0602143A	Soldier Lethality Technology	02		145,900			145,900	U
15	0602144A	Ground Technology	02		143,899			143,899	U
16	0602145A	Next Generation Combat Vehicle Technology	02		263,547			263,547	U
17	0602146A	Network C3I Technology	02		138,016			138,016	U

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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)	See
1	0601101A	In-House Laboratory Independent Research	01						U
2	0601102A	Defense Research Sciences	01	303,257				303,257	U
3	0601103A	University Research Initiatives	01	67,148				67,148	U
4	0601104A	University and Industry Research Centers	01	87,877				87,877	U
5	0601121A	Cyber Collaborative Research Alliance	01	5,077				5,077	U
		<b>Basic Research</b>		<b>463,359</b>				<b>463,359</b>	
6	0602105A	Materials Technology	02						U
7	0602115A	Biomedical Technology	02	11,835				11,835	U
8	0602120A	Sensors and Electronic Survivability	02						U
9	0602122A	TRACTOR HIP	02						U
10	0602126A	TRACTOR JACK	02						U
11	0602134A	Counter Improvised-Threat Advanced Studies	02	2,000				2,000	U
12	0602141A	Lethality Technology	02	42,425				42,425	U
13	0602142A	Army Applied Research	02	30,757				30,757	U
14	0602143A	Soldier Lethality Technology	02	125,435				125,435	U
15	0602144A	Ground Technology	02	28,047				28,047	U
16	0602145A	Next Generation Combat Vehicle Technology	02	217,565		2,000	2,000	219,565	U
17	0602146A	Network C3I Technology	02	114,404				114,404	U

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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	c
18	0602147A	Long Range Precision Fires Technology	02		120,327			120,327	U
19	0602148A	Future Verticle Lift Technology	02		98,359			98,359	U
20	0602150A	Air and Missile Defense Technology	02		95,771			95,771	U
21	0602211A	Aviation Technology	02	80,424					U
22	0602213A	C3I Applied Cyber	02		18,947			18,947	U
23	0602270A	Electronic Warfare Technology	02	25,127					U
24	0602303A	Missile Technology	02	90,496					U
25	0602307A	Advanced Weapons Technology	02	43,454					U
26	0602308A	Advanced Concepts and Simulation	02	28,623					U
27	0602601A	Combat Vehicle and Automotive Technology	02	102,899					U
28	0602618A	Ballistics Technology	02	86,737					U
29	0602622A	Chemical, Smoke and Equipment Defeating Technology	02	4,884					U
30	0602623A	Joint Service Small Arms Program	02	11,890					U
31	0602624A	Weapons and Munitions Technology	02	379,833					U
32	0602705A	Electronics and Electronic Devices	02	98,855					U
33	0602709A	Night Vision Technology	02	33,218					U
34	0602712A	Countermine Systems	02	26,594					U
35	0602716A	Human Factors Engineering Technology	02	23,755					U
36	0602720A	Environmental Quality Technology	02	15,364					U

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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
18	0602147A	Long Range Precision Fires Technology	02	60,553				60,553	U
19	0602148A	Future Verticle Lift Technology	02	96,484				96,484	U
20	0602150A	Air and Missile Defense Technology	02	56,298				56,298	U
21	0602211A	Aviation Technology	02						U
22	0602213A	C3I Applied Cyber	02	18,816				18,816	U
23	0602270A	Electronic Warfare Technology	02						U
24	0602303A	Missile Technology	02						U
25	0602307A	Advanced Weapons Technology	02						U
26	0602308A	Advanced Concepts and Simulation	02						U
27	0602601A	Combat Vehicle and Automotive Technology	02						U
28	0602618A	Ballistics Technology	02						U
29	0602622A	Chemical, Smoke and Equipment Defeating Technology	02						U
30	0602623A	Joint Service Small Arms Program	02						U
31	0602624A	Weapons and Munitions Technology	02						U
32	0602705A	Electronics and Electronic Devices	02						U
33	0602709A	Night Vision Technology	02						U
34	0602712A	Countermine Systems	02						U
35	0602716A	Human Factors Engineering Technology	02						U
36	0602720A	Environmental Quality Technology	02						U

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Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	U
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	
37	0602782A	Command, Control, Communications Technology	02	51,685					
38	0602783A	Computer and Software Technology	02	14,622					
39	0602784A	Military Engineering Technology	02	96,922					
40	0602785A	Manpower/Personnel/Training Technology	02	17,157	20,873			20,873	
41	0602786A	Warfighter Technology	02	55,467					
42	0602787A	Medical Technology	02	87,229	112,955			112,955	
<b>Applied Research</b>				<b>1,553,764</b>	<b>1,259,374</b>			<b>1,259,374</b>	
43	0603001A	Warfighter Advanced Technology	03	40,501					
44	0603002A	Medical Advanced Technology	03	94,575	83,030			83,030	
45	0603003A	Aviation Advanced Technology	03	165,035					
46	0603004A	Weapons and Munitions Advanced Technology	03	240,862					
47	0603005A	Combat Vehicle and Automotive Advanced Technology	03	171,448					
48	0603006A	Space Application Advanced Technology	03	48,542					
49	0603007A	Manpower, Personnel and Training Advanced Technology	03	6,270	11,038			11,038	
50	0603009A	TRACTOR HIKE	03	22,631					
51	0603015A	Next Generation Training & Simulation Systems	03	27,711					
52	0603115A	Medical Development	03						

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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
37	0602782A	Command, Control, Communications Technology	02						U
38	0602783A	Computer and Software Technology	02						U
39	0602784A	Military Engineering Technology	02						U
40	0602785A	Manpower/Personnel/Training Technology	02	20,766				20,766	U
41	0602786A	Warfighter Technology	02						U
42	0602787A	Medical Technology	02	95,496				95,496	U
<b>Applied Research</b>				<b>920,881</b>		<b>2,000</b>	<b>2,000</b>	<b>922,881</b>	
43	0603001A	Warfighter Advanced Technology	03						U
44	0603002A	Medical Advanced Technology	03	38,896				38,896	U
45	0603003A	Aviation Advanced Technology	03						U
46	0603004A	Weapons and Munitions Advanced Technology	03						U
47	0603005A	Combat Vehicle and Automotive Advanced Technology	03						U
48	0603006A	Space Application Advanced Technology	03						U
49	0603007A	Manpower, Personnel and Training Advanced Technology	03	11,659				11,659	U
50	0603009A	TRACTOR HIKE	03						U
51	0603015A	Next Generation Training & Simulation Systems	03						U
52	0603115A	Medical Development	03	27,723				27,723	U

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								(Base+Emerg+ e	c
53	0603117A	Army Advanced Technology Development	03		66,338			66,338	U
54	0603118A	Soldier Lethality Advanced Technology	03		135,968			135,968	U
55	0603119A	Ground Advanced Technology	03		136,793			136,793	U
56	0603125A	Combating Terrorism - Technology Development	03	43,910					U
57	0603130A	TRACTOR NAIL	03	4,896					U
58	0603131A	TRACTOR EGGS	03	6,041					U
59	0603134A	Counter Improvised-Threat Simulation	03						U
60	0603270A	Electronic Warfare Technology	03	40,461					U
61	0603313A	Missile and Rocket Advanced Technology	03	92,404					U
62	0603322A	TRACTOR CAGE	03	16,845					U
63	0603457A	C3I Cyber Advanced Development	03		23,769			23,769	U
64	0603461A	High Performance Computing Modernization Program	03	211,457	224,755			224,755	U
65	0603462A	Next Generation Combat Vehicle Advanced Technology	03		260,535			260,535	U
66	0603463A	Network C3I Advanced Technology	03		142,899			142,899	U
67	0603464A	Long Range Precision Fires Advanced Technology	03		189,386			189,386	U
68	0603465A	Future Vertical Lift Advanced Technology	03		174,892			174,892	U

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53	0603117A	Army Advanced Technology Development	03	62,663				62,663	U
54	0603118A	Soldier Lethality Advanced Technology	03	109,608				109,608	U
55	0603119A	Ground Advanced Technology	03	14,795				14,795	U
56	0603125A	Combating Terrorism - Technology Development	03						U
57	0603130A	TRACTOR NAIL	03						U
58	0603131A	TRACTOR EGGS	03						U
59	0603134A	Counter Improvised-Threat Simulation	03	25,000				25,000	U
60	0603270A	Electronic Warfare Technology	03						U
61	0603313A	Missile and Rocket Advanced Technology	03						U
62	0603322A	TRACTOR CAGE	03						U
63	0603457A	C3I Cyber Advanced Development	03	23,357				23,357	U
64	0603461A	High Performance Computing Modernization Program	03	188,024				188,024	U
65	0603462A	Next Generation Combat Vehicle Advanced Technology	03	199,358				199,358	U
66	0603463A	Network C3I Advanced Technology	03	158,608				158,608	U
67	0603464A	Long Range Precision Fires Advanced Technology	03	121,060				121,060	U
68	0603465A	Future Vertical Lift Advanced Technology	03	156,194				156,194	U

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								Total Enacted	S
								(Base+Emerg+ e	c
								OCO)	
69	0603466A	Air and Missile Defense Advanced Technology	03		82,113			82,113	U
70	0603606A	Landmine Warfare and Barrier Advanced Technology	03	16,860					U
71	0603607A	Joint Service Small Arms Program	03	22,628					U
72	0603710A	Night Vision Advanced Technology	03	69,094					U
73	0603728A	Environmental Quality Technology Demonstrations	03	28,079					U
74	0603734A	Military Engineering Advanced Technology	03	100,359					U
75	0603772A	Advanced Tactical Computer Science and Sensor Technology	03	45,799					U
76	0603794A	C3 Advanced Technology	03	45,168					U
77	0603920A	Humanitarian Demining	03						U
<b>Advanced Technology Development</b>				<b>1,561,576</b>	<b>1,531,516</b>			<b>1,531,516</b>	
78	0603305A	Army Missile Defense Systems Integration	04	60,301	59,487			59,487	U
79	0603308A	Army Space Systems Integration	04						U
80	0603327A	Air and Missile Defense Systems Engineering	04	44,743	52,480		500	52,980	U
81	0603619A	Landmine Warfare and Barrier - Adv Dev	04	40,255	82,915			82,915	U
82	0603627A	Smoke, Obscurant and Target Defeating Sys-Adv Dev	04	19,852					U
83	0603639A	Tank and Medium Caliber Ammunition	04	40,358	77,696			77,696	U

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69	0603466A	Air and Missile Defense Advanced Technology	03	58,130				58,130	U
70	0603606A	Landmine Warfare and Barrier Advanced Technology	03						U
71	0603607A	Joint Service Small Arms Program	03						U
72	0603710A	Night Vision Advanced Technology	03						U
73	0603728A	Environmental Quality Technology Demonstrations	03						U
74	0603734A	Military Engineering Advanced Technology	03						U
75	0603772A	Advanced Tactical Computer Science and Sensor Technology	03						U
76	0603794A	C3 Advanced Technology	03						U
77	0603920A	Humanitarian Demining	03	8,515				8,515	U
<b>Advanced Technology Development</b>				<b>1,203,590</b>				<b>1,203,590</b>	
78	0603305A	Army Missile Defense Systems Integration	04	11,062				11,062	U
79	0603308A	Army Space Systems Integration	04	26,230				26,230	U
80	0603327A	Air and Missile Defense Systems Engineering	04	26,482		500	500	26,982	U
81	0603619A	Landmine Warfare and Barrier - Adv Dev	04	64,092				64,092	U
82	0603627A	Smoke, Obscurant and Target Defeating Sys-Adv Dev	04						U
83	0603639A	Tank and Medium Caliber Ammunition	04	92,753				92,753	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
84	0603645A	Armored System Modernization - Adv Dev	04	80,106	144,234			144,234	U
85	0603747A	Soldier Support and Survivability	04	8,067	6,514		3,000	9,514	U
86	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	35,667	37,490			37,490	U
87	0603774A	Night Vision Systems Advanced Development	04	7,072	200,791			200,791	U
88	0603779A	Environmental Quality Technology - Dem/Val	04	14,190	19,561			19,561	U
89	0603790A	NATO Research and Development	04	3,564	5,406			5,406	U
90	0603801A	Aviation - Adv Dev	04	93,885	505,890			505,890	U
91	0603804A	Logistics and Engineer Equipment - Adv Dev	04	18,845	6,254		1,085	7,339	U
92	0603807A	Medical Systems - Adv Dev	04	38,371	36,975			36,975	U
93	0603827A	Soldier Systems - Advanced Development	04	30,384	26,113			26,113	U
94	0604017A	Robotics Development	04	70,745	84,381			84,381	U
95	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	04	8,225					U
96	0604021A	Electronic Warfare Technology Maturation (MIP)	04		23,043			23,043	U
97	0604035A	Low Earth Orbit (LEO) Satellite Capability	04						U
98	0604100A	Analysis Of Alternatives	04	9,396	10,023			10,023	U
99	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04						U

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84	0603645A	Armored System Modernization - Adv Dev	04	151,478				151,478	U
85	0603747A	Soldier Support and Survivability	04	5,841				5,841	U
86	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	194,775				194,775	U
87	0603774A	Night Vision Systems Advanced Development	04	24,316				24,316	U
88	0603779A	Environmental Quality Technology - Dem/Val	04	13,387				13,387	U
89	0603790A	NATO Research and Development	04	4,762				4,762	U
90	0603801A	Aviation - Adv Dev	04	647,937				647,937	U
91	0603804A	Logistics and Engineer Equipment - Adv Dev	04	4,761				4,761	U
92	0603807A	Medical Systems - Adv Dev	04	28,520				28,520	U
93	0603827A	Soldier Systems - Advanced Development	04	26,138				26,138	U
94	0604017A	Robotics Development	04	121,207				121,207	U
95	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	04						U
96	0604021A	Electronic Warfare Technology Maturation (MIP)	04	22,840				22,840	U
97	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	22,678				22,678	U
98	0604100A	Analysis Of Alternatives	04	10,082				10,082	U
99	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	1,378				1,378	U

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								Total Enacted	S
								(Base+Emerg+ e	c
								OCO)	
100	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	12,393	40,745			40,745	U
101	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	84,981	379,772			379,772	U
102	0604115A	Technology Maturation Initiatives	04	91,749	179,676			179,676	U
103	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	75,711	42,900			42,900	U
104	0604118A	TRACTOR BEAM	04	52,894					U
105	0604119A	Army Advanced Component Development & Prototyping	04		112,806		4,529	117,335	U
106	0604120A	Assured Positioning, Navigation and Timing (PNT)	04						U
107	0604121A	Synthetic Training Environment Refinement & Prototyping	04	39,890	103,621			103,621	U
108	0604134A	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04						U
109	0604182A	Hypersonics	04		404,000			404,000	U
110	0604319A	Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)	04	10,324					U
111	0604403A	Future Interceptor	04		2,000			2,000	U
112	0604541A	Unified Network Transport	04		29,700			29,700	U
113	0604644A	Mobile Medium Range Missile	04		5,000			5,000	U
114	0604785A	Integrated Base Defense (Budget Activity 4)	04				2,000	2,000	U

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100	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	40,083				40,083	U
101	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	376,373				376,373	U
102	0604115A	Technology Maturation Initiatives	04	156,834				156,834	U
103	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	4,995				4,995	U
104	0604118A	TRACTOR BEAM	04						U
105	0604119A	Army Advanced Component Development & Prototyping	04	170,490				170,490	U
106	0604120A	Assured Positioning, Navigation and Timing (PNT)	04	128,125				128,125	U
107	0604121A	Synthetic Training Environment Refinement & Prototyping	04	129,547				129,547	U
108	0604134A	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	13,831				13,831	U
109	0604182A	Hypersonics	04	801,417				801,417	U
110	0604319A	Indirect Fire Protection Capability Increment 2-Intercept (IFPC2)	04						U
111	0604403A	Future Interceptor	04	7,992				7,992	U
112	0604541A	Unified Network Transport	04	40,677				40,677	U
113	0604644A	Mobile Medium Range Missile	04						U
114	0604785A	Integrated Base Defense (Budget Activity 4)	04			2,020	2,020	2,020	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
115	0305251A	Cyberspace Operations Forces and Force Support	04	52,817	52,102			52,102	U
116	1206120A	Assured Positioning, Navigation and Timing (PNT)	04	123,364	139,110			139,110	U
117	1206308A	Army Space Systems Integration	04	45,420	104,996			104,996	U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>1,213,569</b>	<b>2,975,681</b>		<b>11,114</b>	<b>2,986,795</b>	
118	0604201A	Aircraft Avionics	05	31,401	8,414			8,414	U
119	0604270A	Electronic Warfare Development	05	56,310	59,539			59,539	U
120	0604328A	TRACTOR CAGE	05	27,050					U
121	0604601A	Infantry Support Weapons	05	74,629	87,179			87,179	U
122	0604604A	Medium Tactical Vehicles	05	3,905					U
123	0604611A	JAVELIN	05	5,250	14,997			14,997	U
124	0604622A	Family of Heavy Tactical Vehicles	05	11,182	13,125			13,125	U
125	0604633A	Air Traffic Control	05	11,580	5,781			5,781	U
126	0604642A	Light Tactical Wheeled Vehicles	05	1,013	2,965			2,965	U
127	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	359,017	285,136			285,136	U
128	0604710A	Night Vision Systems - Eng Dev	05	139,337	143,696			143,696	U
129	0604713A	Combat Feeding, Clothing, and Equipment	05	4,393	7,393			7,393	U
130	0604715A	Non-System Training Devices - Eng Dev	05	42,604	30,912			30,912	U
131	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	208,965	33,502			33,502	U

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115	0305251A	Cyberspace Operations Forces and Force Support	04	50,525				50,525	U
116	1206120A	Assured Positioning, Navigation and Timing (PNT)	04						U
117	1206308A	Army Space Systems Integration	04						U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>3,421,608</b>		<b>2,520</b>	<b>2,520</b>	<b>3,424,128</b>	
118	0604201A	Aircraft Avionics	05	2,764				2,764	U
119	0604270A	Electronic Warfare Development	05	62,426				62,426	U
120	0604328A	TRACTOR CAGE	05						U
121	0604601A	Infantry Support Weapons	05	91,574				91,574	U
122	0604604A	Medium Tactical Vehicles	05	8,523				8,523	U
123	0604611A	JAVELIN	05	7,493				7,493	U
124	0604622A	Family of Heavy Tactical Vehicles	05	24,792				24,792	U
125	0604633A	Air Traffic Control	05	3,511				3,511	U
126	0604642A	Light Tactical Wheeled Vehicles	05	1,976				1,976	U
127	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	135,488				135,488	U
128	0604710A	Night Vision Systems - Eng Dev	05	61,445				61,445	U
129	0604713A	Combat Feeding, Clothing, and Equipment	05	2,814				2,814	U
130	0604715A	Non-System Training Devices - Eng Dev	05	28,036				28,036	U
131	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	43,651		27,000	27,000	70,651	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
132	0604742A	Constructive Simulation Systems Development	05	21,354	11,636			11,636	U
133	0604746A	Automatic Test Equipment Development	05	10,104	10,915			10,915	U
134	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	8,423	7,801			7,801	U
135	0604768A	Brilliant Anti-Armor Submunition (BAT)	05	6,568	20,000			20,000	U
136	0604780A	Combined Arms Tactical Trainer (CATT) Core	05	20,514	9,241			9,241	U
137	0604798A	Brigade Analysis, Integration and Evaluation	05	48,030	38,303			38,303	U
138	0604802A	Weapons and Munitions - Eng Dev	05	173,713	186,323			186,323	U
139	0604804A	Logistics and Engineer Equipment - Eng Dev	05	70,096	107,826			107,826	U
140	0604805A	Command, Control, Communications Systems - Eng Dev	05	15,366	12,595			12,595	U
141	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	05	45,054	48,264			48,264	U
142	0604808A	Landmine Warfare/Barrier - Eng Dev	05	39,261	37,108			37,108	U
143	0604818A	Army Tactical Command & Control Hardware & Software	05	163,229	129,974			129,974	U
144	0604820A	Radar Development	05	37,847	95,720			95,720	U
145	0604822A	General Fund Enterprise Business System (GFEBs)	05	35,468	42,883			42,883	U
146	0604823A	Firefinder	05	25,856	17,294			17,294	U

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132	0604742A	Constructive Simulation Systems Development	05	10,150				10,150	U
133	0604746A	Automatic Test Equipment Development	05	5,578				5,578	U
134	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	7,892				7,892	U
135	0604768A	Brilliant Anti-Armor Submunition (BAT)	05	24,975				24,975	U
136	0604780A	Combined Arms Tactical Trainer (CATT) Core	05	3,568				3,568	U
137	0604798A	Brigade Analysis, Integration and Evaluation	05	19,268				19,268	U
138	0604802A	Weapons and Munitions - Eng Dev	05	265,811				265,811	U
139	0604804A	Logistics and Engineer Equipment - Eng Dev	05	49,694				49,694	U
140	0604805A	Command, Control, Communications Systems - Eng Dev	05	11,079				11,079	U
141	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	05	49,870				49,870	U
142	0604808A	Landmine Warfare/Barrier - Eng Dev	05	9,589				9,589	U
143	0604818A	Army Tactical Command & Control Hardware & Software	05	162,513				162,513	U
144	0604820A	Radar Development	05	109,259				109,259	U
145	0604822A	General Fund Enterprise Business System (GFEBs)	05	21,201				21,201	U
146	0604823A	Firefinder	05	20,008				20,008	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
147	0604827A	Soldier Systems - Warrior Dem/Val	05	10,044	4,803			4,803	U
148	0604852A	Suite of Survivability Enhancement Systems - EMD	05	50,380	85,198			85,198	U
149	0604854A	Artillery Systems - EMD	05	1,722	10,732			10,732	U
150	0605013A	Information Technology Development	05	74,551	88,689			88,689	U
151	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	158,807	102,073			102,073	U
152	0605028A	Armored Multi-Purpose Vehicle (AMPV)	05	107,521	83,830			83,830	U
153	0605029A	Integrated Ground Security Surveillance Response Capability (IGSSR-C)	05	3,104	6,699			6,699	U
154	0605030A	Joint Tactical Network Center (JTNC)	05	15,287	15,882			15,882	U
155	0605031A	Joint Tactical Network (JTN)	05	42,134	40,808			40,808	U
156	0605032A	TRACTOR TIRE	05	107,926					U
157	0605033A	Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E)	05	4,980	3,847			3,847	U
158	0605034A	Tactical Security System (TSS)	05	4,326	6,928			6,928	U
159	0605035A	Common Infrared Countermeasures (CIRCM)	05	32,025	23,179			23,179	U
160	0605036A	Combating Weapons of Mass Destruction (CWMD)	05	10,883	10,000			10,000	U
161	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	14,517	6,054			6,054	U

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147	0604827A	Soldier Systems - Warrior Dem/Val	05	6,534				6,534	U
148	0604852A	Suite of Survivability Enhancement Systems - EMD	05	82,459				82,459	U
149	0604854A	Artillery Systems - EMD	05	11,611				11,611	U
150	0605013A	Information Technology Development	05	142,678				142,678	U
151	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	115,286				115,286	U
152	0605028A	Armored Multi-Purpose Vehicle (AMPV)	05	96,594				96,594	U
153	0605029A	Integrated Ground Security Surveillance Response Capability (IGSSR-C)	05						U
154	0605030A	Joint Tactical Network Center (JTNC)	05	16,264				16,264	U
155	0605031A	Joint Tactical Network (JTN)	05	31,696				31,696	U
156	0605032A	TRACTOR TIRE	05						U
157	0605033A	Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E)	05	5,976				5,976	U
158	0605034A	Tactical Security System (TSS)	05						U
159	0605035A	Common Infrared Countermeasures (CIRCM)	05	23,321		2,300	2,300	25,621	U
160	0605036A	Combating Weapons of Mass Destruction (CWMD)	05						U
161	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	4,846				4,846	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
162	0605041A	Defensive CYBER Tool Development	05	33,796	50,662			50,662	U
163	0605042A	Tactical Network Radio Systems (Low-Tier)	05	18,761	28,404			28,404	U
164	0605047A	Contract Writing System	05	40,341	17,082			17,082	U
165	0605049A	Missile Warning System Modernization (MWSM)	05	7,321	1,539			1,539	U
166	0605051A	Aircraft Survivability Development	05	56,067	55,057		77,420	132,477	U
167	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	92,674	194,366			194,366	U
168	0605053A	Ground Robotics	05	65,311	26,104			26,104	U
169	0605054A	Emerging Technology Initiatives	05	46,451	37,696			37,696	U
170	0605145A	Medical Products and Support Systems Development	05						U
171	0605203A	Army System Development & Demonstration	05		164,883		19,527	184,410	U
172	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05						U
173	0605380A	AMF Joint Tactical Radio System (JTRS)	05	15,379					U
174	0605450A	Joint Air-to-Ground Missile (JAGM)	05	12,440	6,585			6,585	U
175	0605457A	Army Integrated Air and Missile Defense (AIAMD)	05	318,850	208,638			208,638	U
176	0605625A	Manned Ground Vehicle	05		205,620			205,620	U
177	0605766A	National Capabilities Integration (MIP)	05	12,340	7,835			7,835	U

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162	0605041A	Defensive CYBER Tool Development	05	28,544				28,544	U
163	0605042A	Tactical Network Radio Systems (Low-Tier)	05	28,178				28,178	U
164	0605047A	Contract Writing System	05	22,860				22,860	U
165	0605049A	Missile Warning System Modernization (MWSM)	05						U
166	0605051A	Aircraft Survivability Development	05	35,893		64,625	64,625	100,518	U
167	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	235,770				235,770	U
168	0605053A	Ground Robotics	05	13,710				13,710	U
169	0605054A	Emerging Technology Initiatives	05	294,739				294,739	U
170	0605145A	Medical Products and Support Systems Development	05	954				954	U
171	0605203A	Army System Development & Demonstration	05	150,201				150,201	U
172	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05	5,999				5,999	U
173	0605380A	AMF Joint Tactical Radio System (JTRS)	05						U
174	0605450A	Joint Air-to-Ground Missile (JAGM)	05	8,891				8,891	U
175	0605457A	Army Integrated Air and Missile Defense (AIAMD)	05	193,929				193,929	U
176	0605625A	Manned Ground Vehicle	05	327,732				327,732	U
177	0605766A	National Capabilities Integration (MIP)	05	7,670				7,670	U

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178	0605812A	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Ph	05		7,232			7,232	U
179	0605830A	Aviation Ground Support Equipment	05	7,616	1,664			1,664	U
180	0303032A	TROJAN - RH12	05	5,721	3,936			3,936	U
181	0303267A	Auctioned Spectrum Relocation Fund	05	18,381					U
182	0303367A	Spectrum Access Research and Development	05	285					U
183	0304270A	Electronic Warfare Development	05	8,922	15,232		3,200	18,432	U
184	1205117A	Tractor Bears	05	23,170					U
		<b>System Development &amp; Demonstration</b>		<b>3,119,552</b>	<b>2,989,779</b>		<b>100,147</b>	<b>3,089,926</b>	
185	0604256A	Threat Simulator Development	06	46,732	42,117			42,117	U
186	0604258A	Target Systems Development	06	31,286	28,327			28,327	U
187	0604759A	Major T&E Investment	06	79,214	146,565			146,565	U
188	0605103A	Rand Arroyo Center	06	19,071	13,113			13,113	U
189	0605301A	Army Kwajalein Atoll	06	237,414	238,691			238,691	U
190	0605326A	Concepts Experimentation Program	06	30,667	36,922			36,922	U
191	0605502A	Small Business Innovative Research	06	303,386					U
192	0605601A	Army Test Ranges and Facilities	06	311,027	336,468			336,468	U
193	0605602A	Army Technical Test Instrumentation and Targets	06	82,617	61,974			61,974	U
194	0605604A	Survivability/Lethality Analysis	06	39,886	35,075			35,075	U
195	0605606A	Aircraft Certification	06	3,796	3,461			3,461	U

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178	0605812A	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Ph	05	1,742				1,742	U
179	0605830A	Aviation Ground Support Equipment	05	1,467				1,467	U
180	0303032A	TROJAN - RH12	05	3,451				3,451	U
181	0303267A	Auctioned Spectrum Relocation Fund	05						U
182	0303367A	Spectrum Access Research and Development	05						U
183	0304270A	Electronic Warfare Development	05	55,855		3,900	3,900	59,755	U
184	1205117A	Tractor Bears	05						U
		<b>System Development &amp; Demonstration</b>		<b>3,199,798</b>		<b>97,825</b>	<b>97,825</b>	<b>3,297,623</b>	
185	0604256A	Threat Simulator Development	06	14,515				14,515	U
186	0604258A	Target Systems Development	06	10,668				10,668	U
187	0604759A	Major T&E Investment	06	106,270				106,270	U
188	0605103A	Rand Arroyo Center	06	13,481				13,481	U
189	0605301A	Army Kwajalein Atoll	06	231,824				231,824	U
190	0605326A	Concepts Experimentation Program	06	54,898				54,898	U
191	0605502A	Small Business Innovative Research	06						U
192	0605601A	Army Test Ranges and Facilities	06	350,359				350,359	U
193	0605602A	Army Technical Test Instrumentation and Targets	06	48,475				48,475	U
194	0605604A	Survivability/Lethality Analysis	06	36,001				36,001	U
195	0605606A	Aircraft Certification	06	2,736				2,736	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
196	0605702A	Meteorological Support to RDT&E Activities	06	9,495	6,233			6,233	U
197	0605706A	Materiel Systems Analysis	06	21,043	21,342			21,342	U
198	0605709A	Exploitation of Foreign Items	06	15,026	11,168			11,168	U
199	0605712A	Support of Operational Testing	06	52,139	52,723			52,723	U
200	0605716A	Army Evaluation Center	06	56,532	60,815			60,815	U
201	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	2,708	2,527			2,527	U
202	0605801A	Programwide Activities	06	60,218	58,175			58,175	U
203	0605803A	Technical Information Activities	06	28,237	30,060			30,060	U
204	0605805A	Munitions Standardization, Effectiveness and Safety	06	66,678	54,458			54,458	U
205	0605857A	Environmental Quality Technology Mgmt Support	06	3,138	4,681			4,681	U
206	0605898A	Army Direct Report Headquarters - R&D - MHA	06	53,526	53,820			53,820	U
207	0606001A	Military Ground-Based CREW Technology	06	4,241	2,141			2,141	U
208	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	60,808	62,069			62,069	U
209	0606003A	CounterIntel and Human Intel Modernization	06	2,636	1,050		1,875	2,925	U
210	0606105A	Medical Program-Wide Activities	06						U
211	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	88,300	4,500			4,500	U
212	0909980A	Judgment Fund Reimbursement	06	122					U

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196	0605702A	Meteorological Support to RDT&E Activities	06	6,488				6,488	U
197	0605706A	Materiel Systems Analysis	06	21,859				21,859	U
198	0605709A	Exploitation of Foreign Items	06	7,936		1,000	1,000	8,936	U
199	0605712A	Support of Operational Testing	06	54,470				54,470	U
200	0605716A	Army Evaluation Center	06	63,141				63,141	U
201	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	2,572				2,572	U
202	0605801A	Programwide Activities	06	87,472				87,472	U
203	0605803A	Technical Information Activities	06	26,244				26,244	U
204	0605805A	Munitions Standardization, Effectiveness and Safety	06	40,133				40,133	U
205	0605857A	Environmental Quality Technology Mgmt Support	06	1,780				1,780	U
206	0605898A	Army Direct Report Headquarters - R&D - MHA	06	55,045				55,045	U
207	0606001A	Military Ground-Based CREW Technology	06						U
208	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	71,306				71,306	U
209	0606003A	CounterIntel and Human Intel Modernization	06	1,063		4,137	4,137	5,200	U
210	0606105A	Medical Program-Wide Activities	06	19,891				19,891	U
211	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	4,496				4,496	U
212	0909980A	Judgment Fund Reimbursement	06						U

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213	0909999A	Financing for Cancelled Account Adjustments	06	236					U
		<b>Management Support</b>		<b>1,710,179</b>	<b>1,368,475</b>		<b>1,875</b>	<b>1,370,350</b>	
214	0603778A	MLRS Product Improvement Program	07	6,574	14,615			14,615	U
215	0603813A	TRACTOR PULL	07	4,067					U
216	0605024A	Anti-Tamper Technology Support	07	7,159	8,491			8,491	U
217	0607131A	Weapons and Munitions Product Improvement Programs	07	17,992	15,645			15,645	U
218	0607133A	TRACTOR SMOKE	07	12,357					U
219	0607134A	Long Range Precision Fires (LRPF)	07	152,573	156,682			156,682	U
220	0607135A	Apache Product Improvement Program	07	22,914					U
221	0607136A	Blackhawk Product Improvement Program	07	33,906	23,039			23,039	U
222	0607137A	Chinook Product Improvement Program	07	139,003	171,471			171,471	U
223	0607138A	Fixed Wing Product Improvement Program	07	2,146					U
224	0607139A	Improved Turbine Engine Program	07	173,766	206,434			206,434	U
225	0607142A	Aviation Rocket System Product Improvement and Development	07	35,211	1,927			1,927	U
226	0607143A	Unmanned Aircraft System Universal Products	07	36,488	18,132			18,132	U
227	0607145A	Apache Future Development	07		5,448			5,448	U
228	0607150A	Intel Cyber Development	07						U

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213	0909999A	Financing for Cancelled Account Adjustments	06						U
		<b>Management Support</b>		<b>1,333,123</b>		<b>5,137</b>	<b>5,137</b>	<b>1,338,260</b>	
214	0603778A	MLRS Product Improvement Program	07	10,157				10,157	U
215	0603813A	TRACTOR PULL	07						U
216	0605024A	Anti-Tamper Technology Support	07	8,682				8,682	U
217	0607131A	Weapons and Munitions Product Improvement Programs	07	20,409				20,409	U
218	0607133A	TRACTOR SMOKE	07						U
219	0607134A	Long Range Precision Fires (LRPF)	07	122,733				122,733	U
220	0607135A	Apache Product Improvement Program	07						U
221	0607136A	Blackhawk Product Improvement Program	07	11,236				11,236	U
222	0607137A	Chinook Product Improvement Program	07	46,091				46,091	U
223	0607138A	Fixed Wing Product Improvement Program	07						U
224	0607139A	Improved Turbine Engine Program	07	249,257				249,257	U
225	0607142A	Aviation Rocket System Product Improvement and Development	07	17,155				17,155	U
226	0607143A	Unmanned Aircraft System Universal Products	07	7,743				7,743	U
227	0607145A	Apache Future Development	07	77,177				77,177	U
228	0607150A	Intel Cyber Development	07	14,652				14,652	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
229	0607312A	Army Operational Systems Development	07		45,026			45,026	U
230	0607665A	Family of Biometrics	07	2,320	1,702			1,702	U
231	0607865A	Patriot Product Improvement	07	72,895	87,430			87,430	U
232	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	29,782	47,398			47,398	U
233	0203735A	Combat Vehicle Improvement Programs	07	321,513	277,633			277,633	U
234	0203743A	155mm Self-Propelled Howitzer Improvements	07	35,681	199,274			199,274	U
235	0203744A	Aircraft Modifications/Product Improvement Programs	07	13,629	9,278			9,278	U
236	0203752A	Aircraft Engine Component Improvement Program	07	146	144			144	U
237	0203758A	Digitization	07	6,077	5,270			5,270	U
238	0203801A	Missile/Air Defense Product Improvement Program	07	3,588	1,287			1,287	U
239	0203802A	Other Missile Product Improvement Programs	07	4,760					U
240	0203808A	TRACTOR CARD	07	34,050					U
241	0205402A	Integrated Base Defense - Operational System Dev	07	8,000					U
242	0205410A	Materials Handling Equipment	07	1,132					U
243	0205412A	Environmental Quality Technology - Operational System Dev	07	249	10,000			10,000	U
244	0205456A	Lower Tier Air and Missile Defense (AMD) System	07	74,295	97,746			97,746	U

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229	0607312A	Army Operational Systems Development	07	35,851				35,851	U
230	0607665A	Family of Biometrics	07	1,324				1,324	U
231	0607865A	Patriot Product Improvement	07	187,840				187,840	U
232	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	44,691				44,691	U
233	0203735A	Combat Vehicle Improvement Programs	07	268,919				268,919	U
234	0203743A	155mm Self-Propelled Howitzer Improvements	07	427,254				427,254	U
235	0203744A	Aircraft Modifications/Product Improvement Programs	07	11,688				11,688	U
236	0203752A	Aircraft Engine Component Improvement Program	07	80				80	U
237	0203758A	Digitization	07	4,516				4,516	U
238	0203801A	Missile/Air Defense Product Improvement Program	07	1,288				1,288	U
239	0203802A	Other Missile Product Improvement Programs	07	79,424		2,300	2,300	81,724	U
240	0203808A	TRACTOR CARD	07						U
241	0205402A	Integrated Base Defense - Operational System Dev	07						U
242	0205410A	Materials Handling Equipment	07						U
243	0205412A	Environmental Quality Technology - Operational System Dev	07	259				259	U
244	0205456A	Lower Tier Air and Missile Defense (AMD) System	07	166				166	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
245	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	113,471	117,294			117,294	U
246	0208053A	Joint Tactical Ground System	07						U
248	0303028A	Security and Intelligence Activities	07	40,002	13,845		12,904	26,749	U
249	0303140A	Information Systems Security Program	07	40,148	25,710			25,710	U
250	0303141A	Global Combat Support System	07	51,415	60,076			60,076	U
251	0303142A	SATCOM Ground Environment (SPACE)	07						U
252	0303150A	WWMCCS/Global Command and Control System	07	1,966	2,073			2,073	U
255	0305172A	Combined Advanced Applications	07	1,500					U
256	0305179A	Integrated Broadcast Service (IBS)	07	450	459			459	U
257	0305204A	Tactical Unmanned Aerial Vehicles	07	6,000	5,097		17,050	22,147	U
258	0305206A	Airborne Reconnaissance Systems	07	26,416	11,177		2,000	13,177	U
259	0305208A	Distributed Common Ground/Surface Systems	07	27,109	28,821			28,821	U
260	0305219A	MQ-1C Gray Eagle UAS	07		5,000			5,000	U
261	0305232A	RQ-11 UAV	07	6,180	3,218			3,218	U
262	0305233A	RQ-7 UAV	07	17,863	7,817			7,817	U
263	0307665A	Biometrics Enabled Intelligence	07	6,524	2,000		2,214	4,214	U
264	0708045A	End Item Industrial Preparedness Activities	07	106,766	108,348			108,348	U
265	1203142A	SATCOM Ground Environment (SPACE)	07	9,927	34,169			34,169	U

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## Appropriation: 2040A Research, Development, Test &amp; Eval, Army

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
245	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	75,575				75,575	U
246	0208053A	Joint Tactical Ground System	07	9,510				9,510	U
248	0303028A	Security and Intelligence Activities	07			23,367	23,367	23,367	U
249	0303140A	Information Systems Security Program	07	29,270				29,270	U
250	0303141A	Global Combat Support System	07	86,908				86,908	U
251	0303142A	SATCOM Ground Environment (SPACE)	07	18,684				18,684	U
252	0303150A	WWMCCS/Global Command and Control System	07						U
255	0305172A	Combined Advanced Applications	07						U
256	0305179A	Integrated Broadcast Service (IBS)	07	467				467	U
257	0305204A	Tactical Unmanned Aerial Vehicles	07	4,051		34,100	34,100	38,151	U
258	0305206A	Airborne Reconnaissance Systems	07	13,283		15,575	15,575	28,858	U
259	0305208A	Distributed Common Ground/Surface Systems	07	47,204				47,204	U
260	0305219A	MQ-1C Gray Eagle UAS	07						U
261	0305232A	RQ-11 UAV	07						U
262	0305233A	RQ-7 UAV	07						U
263	0307665A	Biometrics Enabled Intelligence	07						U
264	0708045A	End Item Industrial Preparedness Activities	07	61,012				61,012	U
265	1203142A	SATCOM Ground Environment (SPACE)	07						U

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Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	c
266	1208053A	Joint Tactical Ground System	07	7,400	7,677				7,677 U
9999	9999999999	Classified Programs		5,955	7,273				7,273 U
		Operational Systems Development		1,721,365	1,844,126		34,168		1,878,294
267	0608041A	Defensive CYBER - Software Prototype Development	08						U
		Software and Digital Technology Pilot Progr							
<b>Total Research, Development, Test &amp; Eval, Army</b>				<b>11,371,268</b>	<b>12,543,435</b>		<b>147,304</b>		<b>12,690,739</b>

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Appropriation: 2040A Research, Development, Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
266	1208053A	Joint Tactical Ground System	07						U
9999	9999999999	Classified Programs		3,983				3,983	U
		Operational Systems Development		1,998,539		75,342	75,342	2,073,881	
267	0608041A	Defensive CYBER - Software Prototype Development	08	46,445				46,445	U
		Software and Digital Technology Pilot Progr		46,445				46,445	
<b>Total Research, Development, Test &amp; Eval, Army</b>				<b>12,587,343</b>		<b>182,824</b>	<b>182,824</b>	<b>12,770,167</b>	

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<u>Summary Recap of Budget Activities</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
Basic Research	662,024	650,800			650,800
Applied Research	1,002,162	1,159,739			1,159,739
Advanced Technology Development	831,351	807,280			807,280
Advanced Component Development & Prototypes	4,033,262	5,329,143		40,006	5,369,149
System Development & Demonstration	5,840,606	6,112,602		1,122	6,113,724
Management Support	1,437,664	999,165	130,444		1,129,609
Operational Systems Development	4,931,294	5,096,386		123,282	5,219,668
Software and Digital Technology Pilot Programs					
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>18,738,363</b>	<b>20,155,115</b>	<b>130,444</b>	<b>164,410</b>	<b>20,449,969</b>
 <u>Summary Recap of FYDP Programs</u>					
Strategic Forces	234,760	204,609			204,609
General Purpose Forces	1,866,214	1,770,467		15,000	1,785,467
Intelligence and Communications	707,765	692,955			692,955
Research and Development	14,039,673	15,652,568	130,444	41,128	15,824,140
Central Supply and Maintenance	63,255	74,961			74,961
Administration and Associated Activities	2,376	1,460			1,460
Space	40,735	15,868			15,868
Classified Programs	1,783,585	1,742,227		108,282	1,850,509
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>18,738,363</b>	<b>20,155,115</b>	<b>130,444</b>	<b>164,410</b>	<b>20,449,969</b>

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<u>Summary Recap of Budget Activities</u>	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	603,087				603,087
Applied Research	953,175				953,175
Advanced Technology Development	760,396				760,396
Advanced Component Development & Prototypes	6,503,074		55,418	55,418	6,558,492
System Development & Demonstration	6,263,883		1,144	1,144	6,265,027
Management Support	991,222				991,222
Operational Systems Development	5,327,043		3,000	3,000	5,330,043
Software and Digital Technology Pilot Programs	25,168				25,168
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>21,427,048</b>		<b>59,562</b>	<b>59,562</b>	<b>21,486,610</b>
 <u>Summary Recap of FYDP Programs</u>					
Strategic Forces	330,493				330,493
General Purpose Forces	1,792,408		3,000	3,000	1,795,408
Intelligence and Communications	730,315				730,315
Research and Development	16,655,343		56,562	56,562	16,711,905
Central Supply and Maintenance	51,865				51,865
Administration and Associated Activities	1,536				1,536
Space	70,056				70,056
Classified Programs	1,795,032				1,795,032
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>21,427,048</b>		<b>59,562</b>	<b>59,562</b>	<b>21,486,610</b>

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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	0601103N	University Research Initiatives	01	155,539	167,850			167,850	U
2	0601152N	In-House Laboratory Independent Research	01	19,123	19,121			19,121	U
3	0601153N	Defense Research Sciences	01	487,362	463,829			463,829	U
		<b>Basic Research</b>		<b>662,024</b>	<b>650,800</b>			<b>650,800</b>	
4	0602114N	Power Projection Applied Research	02	26,903	28,546			28,546	U
5	0602123N	Force Protection Applied Research	02	175,857	215,517			215,517	U
6	0602131M	Marine Corps Landing Force Technology	02	61,593	69,104			69,104	U
7	0602235N	Common Picture Applied Research	02	40,559	42,846			42,846	U
8	0602236N	Warfighter Sustainment Applied Research	02	64,010	95,825			95,825	U
9	0602271N	Electromagnetic Systems Applied Research	02	74,934	88,497			88,497	U
10	0602435N	Ocean Warfighting Environment Applied Research	02	87,715	82,582			82,582	U
11	0602651M	Joint Non-Lethal Weapons Applied Research	02	6,137	6,346			6,346	U
12	0602747N	Undersea Warfare Applied Research	02	75,998	98,075			98,075	U
13	0602750N	Future Naval Capabilities Applied Research	02	135,523	152,012			152,012	U
14	0602782N	Mine and Expeditionary Warfare Applied Research	02	37,399	54,074			54,074	U
15	0602792N	Innovative Naval Prototypes (INP) Applied Research	02	151,176	152,354			152,354	U

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1	0601103N	University Research Initiatives	01	116,816				116,816	U
2	0601152N	In-House Laboratory Independent Research	01	19,113				19,113	U
3	0601153N	Defense Research Sciences	01	467,158				467,158	U
		<b>Basic Research</b>		<b>603,087</b>				<b>603,087</b>	
4	0602114N	Power Projection Applied Research	02	17,792				17,792	U
5	0602123N	Force Protection Applied Research	02	122,281				122,281	U
6	0602131M	Marine Corps Landing Force Technology	02	50,623				50,623	U
7	0602235N	Common Picture Applied Research	02	48,001				48,001	U
8	0602236N	Warfighter Sustainment Applied Research	02	67,765				67,765	U
9	0602271N	Electromagnetic Systems Applied Research	02	84,994				84,994	U
10	0602435N	Ocean Warfighting Environment Applied Research	02	63,392				63,392	U
11	0602651M	Joint Non-Lethal Weapons Applied Research	02	6,343				6,343	U
12	0602747N	Undersea Warfare Applied Research	02	56,397				56,397	U
13	0602750N	Future Naval Capabilities Applied Research	02	167,590				167,590	U
14	0602782N	Mine and Expeditionary Warfare Applied Research	02	30,715				30,715	U
15	0602792N	Innovative Naval Prototypes (INP) Applied Research	02	160,537				160,537	U

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								(Base+Emerg+ e	c
16	0602861N	Science and Technology Management - ONR Field Activities	02	64,358	73,961			73,961	U
		<b>Applied Research</b>		<b>1,002,162</b>	<b>1,159,739</b>			<b>1,159,739</b>	
17	0603123N	Force Protection Advanced Technology	03	32,140	40,286			40,286	U
18	0603271N	Electromagnetic Systems Advanced Technology	03	8,639	9,499			9,499	U
19	0603640M	USMC Advanced Technology Demonstration (ATD)	03	170,659	212,347			212,347	U
20	0603651M	Joint Non-Lethal Weapons Technology Development	03	12,956	13,307			13,307	U
21	0603673N	Future Naval Capabilities Advanced Technology Development	03	210,631	222,477			222,477	U
22	0603680N	Manufacturing Technology Program	03	57,322	65,138			65,138	U
23	0603729N	Warfighter Protection Advanced Technology	03	39,949	34,149			34,149	U
24	0603758N	Navy Warfighting Experiments and Demonstrations	03	64,422	67,739			67,739	U
25	0603782N	Mine and Expeditionary Warfare Advanced Technology	03	38,541	13,335			13,335	U
26	0603801N	Innovative Naval Prototypes (INP) Advanced Technology Development	03	196,092	129,003			129,003	U
		<b>Advanced Technology Development</b>		<b>831,351</b>	<b>807,280</b>			<b>807,280</b>	
27	0603178N	Medium and Large Unmanned Surface Vehicles (USVs)	04						U
28	0603207N	Air/Ocean Tactical Applications	04	29,136	40,643		2,400	43,043	U
29	0603216N	Aviation Survivability	04	7,618	11,919			11,919	U

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16	0602861N	Science and Technology Management - ONR Field Activities	02	76,745				76,745	U
		<b>Applied Research</b>		<b>953,175</b>				<b>953,175</b>	
17	0603123N	Force Protection Advanced Technology	03	24,410				24,410	U
18	0603271N	Electromagnetic Systems Advanced Technology	03	8,008				8,008	U
19	0603640M	USMC Advanced Technology Demonstration (ATD)	03	219,045				219,045	U
20	0603651M	Joint Non-Lethal Weapons Technology Development	03	13,301				13,301	U
21	0603673N	Future Naval Capabilities Advanced Technology Development	03	246,054				246,054	U
22	0603680N	Manufacturing Technology Program	03	60,122				60,122	U
23	0603729N	Warfighter Protection Advanced Technology	03	4,851				4,851	U
24	0603758N	Navy Warfighting Experiments and Demonstrations	03	40,709				40,709	U
25	0603782N	Mine and Expeditionary Warfare Advanced Technology	03	1,948				1,948	U
26	0603801N	Innovative Naval Prototypes (INP) Advanced Technology Development	03	141,948				141,948	U
		<b>Advanced Technology Development</b>		<b>760,396</b>				<b>760,396</b>	
27	0603178N	Medium and Large Unmanned Surface Vehicles (USVs)	04	464,042				464,042	U
28	0603207N	Air/Ocean Tactical Applications	04	35,386				35,386	U
29	0603216N	Aviation Survivability	04	13,428				13,428	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
30	0603239N	ISO Naval Construction Forces	04						U
31	0603251N	Aircraft Systems	04	790	1,473			1,473	U
32	0603254N	ASW Systems Development	04	6,877	7,172			7,172	U
33	0603261N	Tactical Airborne Reconnaissance	04	3,537	3,419			3,419	U
34	0603382N	Advanced Combat Systems Technology	04	38,674	57,947			57,947	U
35	0603502N	Surface and Shallow Water Mine Countermeasures	04	116,113	407,800			407,800	U
36	0603506N	Surface Ship Torpedo Defense	04	6,822	7,242			7,242	U
37	0603512N	Carrier Systems Development	04	5,388	4,997			4,997	U
38	0603525N	PILOT FISH	04	140,354	196,648			196,648	U
39	0603527N	RETRACT LARCH	04	28,653	11,980		22,000	33,980	U
40	0603536N	RETRACT JUNIPER	04	109,958	129,163			129,163	U
41	0603542N	Radiological Control	04	735	689			689	U
42	0603553N	Surface ASW	04	1,078	1,137			1,137	U
43	0603561N	Advanced Submarine System Development	04	103,267	115,717			115,717	U
44	0603562N	Submarine Tactical Warfare Systems	04	12,180	11,192			11,192	U
45	0603563N	Ship Concept Advanced Design	04	73,750	96,846			96,846	U
46	0603564N	Ship Preliminary Design & Feasibility Studies	04	12,839	22,534			22,534	U
47	0603570N	Advanced Nuclear Power Systems	04	256,137	181,652			181,652	U
48	0603573N	Advanced Surface Machinery Systems	04	26,272	87,408			87,408	U
49	0603576N	CHALK EAGLE	04	33,943	54,877			54,877	U

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30	0603239N	ISO Naval Construction Forces	04	2,350				2,350	U
31	0603251N	Aircraft Systems	04	418				418	U
32	0603254N	ASW Systems Development	04	15,719				15,719	U
33	0603261N	Tactical Airborne Reconnaissance	04	3,411				3,411	U
34	0603382N	Advanced Combat Systems Technology	04	70,218				70,218	U
35	0603502N	Surface and Shallow Water Mine Countermeasures	04	52,358				52,358	U
36	0603506N	Surface Ship Torpedo Defense	04	12,816				12,816	U
37	0603512N	Carrier Systems Development	04	7,559				7,559	U
38	0603525N	PILOT FISH	04	358,757				358,757	U
39	0603527N	RETRACT LARCH	04	12,562		36,500	36,500	49,062	U
40	0603536N	RETRACT JUNIPER	04	148,000				148,000	U
41	0603542N	Radiological Control	04	778				778	U
42	0603553N	Surface ASW	04	1,161				1,161	U
43	0603561N	Advanced Submarine System Development	04	185,356				185,356	U
44	0603562N	Submarine Tactical Warfare Systems	04	10,528				10,528	U
45	0603563N	Ship Concept Advanced Design	04	126,396				126,396	U
46	0603564N	Ship Preliminary Design & Feasibility Studies	04	70,270				70,270	U
47	0603570N	Advanced Nuclear Power Systems	04	149,188				149,188	U
48	0603573N	Advanced Surface Machinery Systems	04	38,449				38,449	U
49	0603576N	CHALK EAGLE	04	71,181				71,181	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
50	0603581N	Littoral Combat Ship (LCS)	04	36,864	16,934			16,934	U
51	0603582N	Combat System Integration	04	15,710	17,251			17,251	U
52	0603595N	Ohio Replacement	04	528,146	427,051			427,051	U
53	0603596N	LCS Mission Modules	04	99,728	108,505			108,505	U
54	0603597N	Automated Test and Analysis	04	36,563	42,653			42,653	U
55	0603599N	Frigate Development	04	119,821	59,007			59,007	U
56	0603609N	Conventional Munitions	04	8,942	9,988			9,988	U
57	0603635M	Marine Corps Ground Combat/ Support System	04		51,997			51,997	U
58	0603654N	Joint Service Explosive Ordnance Development	04	60,316	33,478		14,178	47,656	U
59	0603713N	Ocean Engineering Technology Development	04	5,697	5,619			5,619	U
60	0603721N	Environmental Protection	04	19,629	20,564			20,564	U
61	0603724N	Navy Energy Program	04	31,726	58,014			58,014	U
62	0603725N	Facilities Improvement	04	5,177	3,440			3,440	U
63	0603734N	CHALK CORAL	04	254,023	307,392			307,392	U
64	0603739N	Navy Logistic Productivity	04	2,803	3,857			3,857	U
65	0603746N	RETRACT MAPLE	04	307,563	242,144			242,144	U
66	0603748N	LINK PLUMERIA	04	347,395	396,509			396,509	U
67	0603751N	RETRACT ELM	04	49,869	63,434			63,434	U
68	0603764M	LINK EVERGREEN	04		30,000			30,000	U
69	0603764N	LINK EVERGREEN	04		167,735			167,735	U

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50	0603581N	Littoral Combat Ship (LCS)	04	32,178				32,178	U
51	0603582N	Combat System Integration	04	17,843				17,843	U
52	0603595N	Ohio Replacement	04	317,196				317,196	U
53	0603596N	LCS Mission Modules	04	67,875				67,875	U
54	0603597N	Automated Test and Analysis	04	4,797				4,797	U
55	0603599N	Frigate Development	04	82,309				82,309	U
56	0603609N	Conventional Munitions	04	9,922				9,922	U
57	0603635M	Marine Corps Ground Combat/ Support System	04	189,603				189,603	U
58	0603654N	Joint Service Explosive Ordnance Development	04	43,084		14,461	14,461	57,545	U
59	0603713N	Ocean Engineering Technology Development	04	6,346				6,346	U
60	0603721N	Environmental Protection	04	20,601				20,601	U
61	0603724N	Navy Energy Program	04	23,422				23,422	U
62	0603725N	Facilities Improvement	04	4,664				4,664	U
63	0603734N	CHALK CORAL	04	545,763		3,000	3,000	548,763	U
64	0603739N	Navy Logistic Productivity	04	3,884				3,884	U
65	0603746N	RETRACT MAPLE	04	353,226				353,226	U
66	0603748N	LINK PLUMERIA	04	544,388				544,388	U
67	0603751N	RETRACT ELM	04	86,730				86,730	U
68	0603764M	LINK EVERGREEN	04	236,234				236,234	U
69	0603764N	LINK EVERGREEN	04						U

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								Total Enacted S (Base+Emerg+ e OCO)	c
70	0603790N	NATO Research and Development	04	9,280	7,697			7,697	U
71	0603795N	Land Attack Technology	04	6,924	5,900		1,428	7,328	U
72	0603851M	Joint Non-Lethal Weapons Testing	04	26,695	28,466			28,466	U
73	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	04	99,123	51,341			51,341	U
74	0603925N	Directed Energy and Electric Weapon Systems	04	138,988	135,919			135,919	U
75	0604014N	F/A -18 Infrared Search and Track (IRST)	04	104,505	112,416			112,416	U
76	0604027N	Digital Warfare Office	04	19,217	37,000			37,000	U
77	0604028N	Small and Medium Unmanned Undersea Vehicles	04	16,062	47,261			47,261	U
78	0604029N	Unmanned Undersea Vehicle Core Technologies	04	26,406	41,910			41,910	U
79	0604030N	Rapid Prototyping, Experimentation and Demonstration.	04	27,495	31,000			31,000	U
80	0604031N	Large Unmanned Undersea Vehicles	04	57,942	68,310			68,310	U
81	0604112N	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78 - 80)	04	81,021	105,756			105,756	U
82	0604126N	Littoral Airborne MCM	04	14,052	20,248			20,248	U
83	0604127N	Surface Mine Countermeasures	04	14,764	18,735			18,735	U
84	0604272N	Tactical Air Directional Infrared Countermeasures (TADIRCM)	04	45,853	58,449			58,449	U
85	0604289M	Next Generation Logistics	04	5,890	19,420			19,420	U
86	0604292N	Future Vertical Lift (Maritime Strike)	04						U

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70	0603790N	NATO Research and Development	04	6,880				6,880	U
71	0603795N	Land Attack Technology	04	10,578		1,457	1,457	12,035	U
72	0603851M	Joint Non-Lethal Weapons Testing	04	28,435				28,435	U
73	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	04	33,612				33,612	U
74	0603925N	Directed Energy and Electric Weapon Systems	04	128,845				128,845	U
75	0604014N	F/A -18 Infrared Search and Track (IRST)	04	84,190				84,190	U
76	0604027N	Digital Warfare Office	04	54,699				54,699	U
77	0604028N	Small and Medium Unmanned Undersea Vehicles	04	53,942				53,942	U
78	0604029N	Unmanned Undersea Vehicle Core Technologies	04	40,060				40,060	U
79	0604030N	Rapid Prototyping, Experimentation and Demonstration.	04	12,100				12,100	U
80	0604031N	Large Unmanned Undersea Vehicles	04	78,122				78,122	U
81	0604112N	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78 - 80)	04	107,895				107,895	U
82	0604126N	Littoral Airborne MCM	04	17,366				17,366	U
83	0604127N	Surface Mine Countermeasures	04	18,754				18,754	U
84	0604272N	Tactical Air Directional Infrared Countermeasures (TADIRCM)	04	59,776				59,776	U
85	0604289M	Next Generation Logistics	04						U
86	0604292N	Future Vertical Lift (Maritime Strike)	04	5,097				5,097	U

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87	0604320M	Rapid Technology Capability Prototype	04	6,986	4,558			4,558	U
88	0604454N	LX (R)	04	5,463	12,500			12,500	U
89	0604536N	Advanced Undersea Prototyping	04	108,482	187,187			187,187	U
90	0604636N	Counter Unmanned Aircraft Systems (C-UAS)	04		3,100			3,100	U
91	0604659N	Precision Strike Weapons Development Program	04	89,477	637,254			637,254	U
92	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	04	6,952	5,263			5,263	U
93	0604786N	Offensive Anti-Surface Warfare Weapon Development	04	141,383	115,419			115,419	U
94	0303354N	ASW Systems Development - MIP	04	8,889	9,991			9,991	U
95	0304240M	Advanced Tactical Unmanned Aircraft System	04	17,554	45,407			45,407	U
96	0304240N	Advanced Tactical Unmanned Aircraft System	04	9,300					U
97	0304270N	Electronic Warfare Development - MIP	04	466	609			609	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>4,033,262</b>	<b>5,329,143</b>		<b>40,006</b>	<b>5,369,149</b>	
98	0603208N	Training System Aircraft	05	14,345	15,514			15,514	U
99	0604212N	Other Helo Development	05	23,307	38,835			38,835	U
100	0604214M	AV-8B Aircraft - Eng Dev	05	45,639	27,441			27,441	U
101	0604215N	Standards Development	05	3,624	3,642			3,642	U

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87	0604320M	Rapid Technology Capability Prototype	04	3,664				3,664	U
88	0604454N	LX (R)	04	10,203				10,203	U
89	0604536N	Advanced Undersea Prototyping	04	115,858				115,858	U
90	0604636N	Counter Unmanned Aircraft Systems (C-UAS)	04	14,259				14,259	U
91	0604659N	Precision Strike Weapons Development Program	04	1,102,387				1,102,387	U
92	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	04	7,657				7,657	U
93	0604786N	Offensive Anti-Surface Warfare Weapon Development	04	35,750				35,750	U
94	0303354N	ASW Systems Development - MIP	04	9,151				9,151	U
95	0304240M	Advanced Tactical Unmanned Aircraft System	04	22,589				22,589	U
96	0304240N	Advanced Tactical Unmanned Aircraft System	04						U
97	0304270N	Electronic Warfare Development - MIP	04	809				809	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>6,503,074</b>		<b>55,418</b>	<b>55,418</b>	<b>6,558,492</b>	
98	0603208N	Training System Aircraft	05	4,332				4,332	U
99	0604212N	Other Helo Development	05	18,133				18,133	U
100	0604214M	AV-8B Aircraft - Eng Dev	05	20,054				20,054	U
101	0604215N	Standards Development	05	4,237				4,237	U

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102	0604216N	Multi-Mission Helicopter Upgrade Development	05	16,178	19,196			19,196	U
103	0604218N	Air/Ocean Equipment Engineering	05	15,212					U
104	0604221N	P-3 Modernization Program	05	2,074					U
105	0604230N	Warfare Support System	05	9,401	8,601			8,601	U
106	0604231N	Tactical Command System	05	53,110	73,920			73,920	U
107	0604234N	Advanced Hawkeye	05	205,612	226,596			226,596	U
108	0604245M	H-1 Upgrades	05	53,083	60,991			60,991	U
109	0604261N	Acoustic Search Sensors	05	41,395	47,013			47,013	U
110	0604262N	V-22A	05	131,363	191,235			191,235	U
111	0604264N	Air Crew Systems Development	05	30,005	19,172			19,172	U
112	0604269N	EA-18	05	235,963	123,637			123,637	U
113	0604270N	Electronic Warfare Development	05	86,719	114,349			114,349	U
114	0604273M	Executive Helo Development	05	237,300	176,211			176,211	U
115	0604274N	Next Generation Jammer (NGJ)	05	426,729	491,884			491,884	U
116	0604280N	Joint Tactical Radio System - Navy (JTRS-Navy)	05	3,178	190,689			190,689	U
117	0604282N	Next Generation Jammer (NGJ) Increment II	05	91,216	90,922			90,922	U
118	0604307N	Surface Combatant Combat System Engineering	05	367,189	375,681			375,681	U
119	0604311N	LPD-17 Class Systems Integration	05	902	640			640	U
120	0604329N	Small Diameter Bomb (SDB)	05	84,029	50,096			50,096	U

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102	0604216N	Multi-Mission Helicopter Upgrade Development	05	27,340				27,340	U
103	0604218N	Air/Ocean Equipment Engineering	05						U
104	0604221N	P-3 Modernization Program	05	606				606	U
105	0604230N	Warfare Support System	05	9,065				9,065	U
106	0604231N	Tactical Command System	05	97,968				97,968	U
107	0604234N	Advanced Hawkeye	05	309,373				309,373	U
108	0604245M	H-1 Upgrades	05	62,310				62,310	U
109	0604261N	Acoustic Search Sensors	05	47,182				47,182	U
110	0604262N	V-22A	05	132,624				132,624	U
111	0604264N	Air Crew Systems Development	05	21,445				21,445	U
112	0604269N	EA-18	05	106,134				106,134	U
113	0604270N	Electronic Warfare Development	05	134,194				134,194	U
114	0604273M	Executive Helo Development	05	99,321				99,321	U
115	0604274N	Next Generation Jammer (NGJ)	05	477,680				477,680	U
116	0604280N	Joint Tactical Radio System - Navy (JTRS-Navy)	05	232,818				232,818	U
117	0604282N	Next Generation Jammer (NGJ) Increment II	05	170,039				170,039	U
118	0604307N	Surface Combatant Combat System Engineering	05	403,712				403,712	U
119	0604311N	LPD-17 Class Systems Integration	05	945				945	U
120	0604329N	Small Diameter Bomb (SDB)	05	62,488				62,488	U

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121	0604366N	Standard Missile Improvements	05	199,499	195,296			195,296	U
122	0604373N	Airborne MCM	05	8,024	10,916			10,916	U
123	0604378N	Naval Integrated Fire Control - Counter Air Systems Engineering	05	32,512	30,084			30,084	U
124	0604419N	Advanced Sensors Application Program (ASAP)	05						U
125	0604501N	Advanced Above Water Sensors	05	30,551	30,179			30,179	U
126	0604503N	SSN-688 and Trident Modernization	05	119,911	78,625			78,625	U
127	0604504N	Air Control	05	60,323	44,923			44,923	U
128	0604512N	Shipboard Aviation Systems	05	13,530	14,632			14,632	U
129	0604518N	Combat Information Center Conversion	05	18,626	16,094			16,094	U
130	0604522N	Air and Missile Defense Radar (AMDR) System	05	26,079	38,349			38,349	U
131	0604530N	Advanced Arresting Gear (AAG)	05	168,427	122,495			122,495	U
132	0604558N	New Design SSN	05	174,351	321,010			321,010	U
133	0604562N	Submarine Tactical Warfare System	05	77,529	62,426			62,426	U
134	0604567N	Ship Contract Design/ Live Fire T&E	05	69,337	46,809			46,809	U
135	0604574N	Navy Tactical Computer Resources	05	4,460	3,692			3,692	U
136	0604601N	Mine Development	05	22,105	56,464			56,464	U
137	0604610N	Lightweight Torpedo Development	05	62,448	109,349			109,349	U
138	0604654N	Joint Service Explosive Ordnance Development	05	6,829	8,237			8,237	U

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121	0604366N	Standard Missile Improvements	05	386,225				386,225	U
122	0604373N	Airborne MCM	05	10,909				10,909	U
123	0604378N	Naval Integrated Fire Control - Counter Air Systems Engineering	05	44,548				44,548	U
124	0604419N	Advanced Sensors Application Program (ASAP)	05	13,673				13,673	U
125	0604501N	Advanced Above Water Sensors	05	87,809				87,809	U
126	0604503N	SSN-688 and Trident Modernization	05	93,097				93,097	U
127	0604504N	Air Control	05	38,863				38,863	U
128	0604512N	Shipboard Aviation Systems	05	9,593				9,593	U
129	0604518N	Combat Information Center Conversion	05	12,718				12,718	U
130	0604522N	Air and Missile Defense Radar (AMDR) System	05	78,319				78,319	U
131	0604530N	Advanced Arresting Gear (AAG)	05	65,834				65,834	U
132	0604558N	New Design SSN	05	259,443				259,443	U
133	0604562N	Submarine Tactical Warfare System	05	63,878				63,878	U
134	0604567N	Ship Contract Design/ Live Fire T&E	05	51,853				51,853	U
135	0604574N	Navy Tactical Computer Resources	05	3,853				3,853	U
136	0604601N	Mine Development	05	92,607				92,607	U
137	0604610N	Lightweight Torpedo Development	05	146,012				146,012	U
138	0604654N	Joint Service Explosive Ordnance Development	05	8,383				8,383	U

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139	0604657M	USMC Ground Combat/Supporting Arms Systems - Eng Dev	05		20,085			20,085	U
140	0604703N	Personnel, Training, Simulation, and Human Factors	05	6,287	5,500			5,500	U
141	0604727N	Joint Standoff Weapon Systems	05	424	16,225			16,225	U
142	0604755N	Ship Self Defense (Detect & Control)	05	175,129	178,603		1,122	179,725	U
143	0604756N	Ship Self Defense (Engage: Hard Kill)	05	185,971	115,130			115,130	U
144	0604757N	Ship Self Defense (Engage: Soft Kill/EW)	05	124,769	95,282			95,282	U
145	0604761N	Intelligence Engineering	05	25,965	45,610			45,610	U
146	0604771N	Medical Development	05	36,761	33,181			33,181	U
147	0604777N	Navigation/ID System	05	99,650	45,755			45,755	U
148	0604800M	Joint Strike Fighter (JSF) - EMD	05	64,692	1,710			1,710	U
149	0604800N	Joint Strike Fighter (JSF) - EMD	05	63,535	1,490			1,490	U
150	0604850N	SSN(X)	05						U
151	0605013M	Information Technology Development	05	12,545	1,494			1,494	U
152	0605013N	Information Technology Development	05	233,521	268,547			268,547	U
153	0605024N	Anti-Tamper Technology Support	05	6,049	4,882			4,882	U
154	0605212M	CH-53K RDTE	05	383,558	506,955			506,955	U
155	0605215N	Mission Planning	05	32,032	72,566			72,566	U
156	0605217N	Common Avionics	05	49,316	37,055			37,055	U
157	0605220N	Ship to Shore Connector (SSC)	05	1,425	19,909			19,909	U

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139	0604657M	USMC Ground Combat/Supporting Arms Systems - Eng Dev	05	33,784				33,784	U
140	0604703N	Personnel, Training, Simulation, and Human Factors	05	8,599				8,599	U
141	0604727N	Joint Standoff Weapon Systems	05	73,744				73,744	U
142	0604755N	Ship Self Defense (Detect & Control)	05	157,490		1,144	1,144	158,634	U
143	0604756N	Ship Self Defense (Engage: Hard Kill)	05	121,761				121,761	U
144	0604757N	Ship Self Defense (Engage: Soft Kill/EW)	05	89,373				89,373	U
145	0604761N	Intelligence Engineering	05	15,716				15,716	U
146	0604771N	Medical Development	05	2,120				2,120	U
147	0604777N	Navigation/ID System	05	50,180				50,180	U
148	0604800M	Joint Strike Fighter (JSF) - EMD	05	561				561	U
149	0604800N	Joint Strike Fighter (JSF) - EMD	05	250				250	U
150	0604850N	SSN(X)	05	1,000				1,000	U
151	0605013M	Information Technology Development	05	974				974	U
152	0605013N	Information Technology Development	05	356,173				356,173	U
153	0605024N	Anti-Tamper Technology Support	05	7,810				7,810	U
154	0605212M	CH-53K RDTE	05	406,406				406,406	U
155	0605215N	Mission Planning	05	86,134				86,134	U
156	0605217N	Common Avionics	05	54,540				54,540	U
157	0605220N	Ship to Shore Connector (SSC)	05	5,155				5,155	U

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158	0605327N	T-AO 205 Class	05	1,253	1,682			1,682	U
159	0605414N	Unmanned Carrier Aviation (UCA)	05	503,989	649,055			649,055	U
160	0605450M	Joint Air-to-Ground Missile (JAGM)	05	16,031	18,393			18,393	U
161	0605500N	Multi-mission Maritime Aircraft (MMA)	05	32,998	21,472			21,472	U
162	0605504N	Multi-Mission Maritime (MMA) Increment III	05	159,572	141,534			141,534	U
163	0605611M	Marine Corps Assault Vehicles System Development & Demonstration	05	64,311	50,137			50,137	U
164	0605813M	Joint Light Tactical Vehicle (JLTV) System Development & Demonstration	05		2,105			2,105	U
165	0204202N	DDG-1000	05	137,004	111,435			111,435	U
166	0303267N	Auctioned Spectrum Relocation Fund	05	102,762					U
167	0303467N	SENSR Spectrum Pipeline SRF	05	1,012					U
168	0303567N	Non-SENSR Spectrum Pipeline SRF	05	2,000					U
169	0304785N	Tactical Cryptologic Systems	05	39,385	91,091			91,091	U
170	0306250M	Cyber Operations Technology Development	05	6,546	19,874			19,874	U
<b>System Development &amp; Demonstration</b>				<b>5,840,606</b>	<b>6,112,602</b>		<b>1,122</b>	<b>6,113,724</b>	
171	0604256N	Threat Simulator Development	06	91,921	62,678			62,678	U
172	0604258N	Target Systems Development	06	10,686	12,027			12,027	U
173	0604759N	Major T&E Investment	06	86,967	107,348			107,348	U
174	0605126N	Joint Theater Air and Missile Defense Organization	06	46					U

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158	0605327N	T-AO 205 Class	05	5,148				5,148	U
159	0605414N	Unmanned Carrier Aviation (UCA)	05	266,970				266,970	U
160	0605450M	Joint Air-to-Ground Missile (JAGM)	05	12,713				12,713	U
161	0605500N	Multi-mission Maritime Aircraft (MMA)	05	24,424				24,424	U
162	0605504N	Multi-Mission Maritime (MMA) Increment III	05	182,870				182,870	U
163	0605611M	Marine Corps Assault Vehicles System Development & Demonstration	05	41,775				41,775	U
164	0605813M	Joint Light Tactical Vehicle (JLTV) System Development & Demonstration	05	2,541				2,541	U
165	0204202N	DDG-1000	05	208,448				208,448	U
166	0303267N	Auctioned Spectrum Relocation Fund	05						U
167	0303467N	SENSR Spectrum Pipeline SRF	05						U
168	0303567N	Non-SENSR Spectrum Pipeline SRF	05						U
169	0304785N	Tactical Cryptologic Systems	05	111,434				111,434	U
170	0306250M	Cyber Operations Technology Development	05	26,173				26,173	U
		<b>System Development &amp; Demonstration</b>		<b>6,263,883</b>		<b>1,144</b>	<b>1,144</b>	<b>6,265,027</b>	
171	0604256N	Threat Simulator Development	06	22,075				22,075	U
172	0604258N	Target Systems Development	06	10,224				10,224	U
173	0604759N	Major T&E Investment	06	85,195				85,195	U
174	0605126N	Joint Theater Air and Missile Defense Organization	06						U

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								Total Enacted	S
								(Base+Emerg+ e	c
								OCO)	
175	0605152N	Studies and Analysis Support - Navy	06	3,870	3,908			3,908	U
176	0605154N	Center for Naval Analyses	06	42,361	47,669			47,669	U
177	0605285N	Next Generation Fighter	06	4,981	7,100			7,100	U
178	0605502N	Small Business Innovative Research	06	433,656					U
179	0605804N	Technical Information Services	06	1,465	988			988	U
180	0605853N	Management, Technical & International Support	06	84,378	113,844			113,844	U
181	0605856N	Strategic Technical Support	06	4,068	3,742			3,742	U
182	0605861N	RDT&E Science and Technology Management	06	1,041					U
183	0605863N	RDT&E Ship and Aircraft Support	06	100,950	93,872			93,872	U
184	0605864N	Test and Evaluation Support	06	370,229	392,528	130,444		522,972	U
185	0605865N	Operational Test and Evaluation Capability	06	21,218	25,145			25,145	U
186	0605866N	Navy Space and Electronic Warfare (SEW) Support	06	16,032	12,652			12,652	U
187	0605867N	SEW Surveillance/Reconnaissance Support	06		8,402			8,402	U
188	0605873M	Marine Corps Program Wide Support	06	21,158	34,734			34,734	U
189	0605898N	Management HQ - R&D	06	40,165	39,673			39,673	U
190	0606355N	Warfare Innovation Management	06	40,722	28,750			28,750	U
191	0606942M	Assessments and Evaluations Cyber Vulnerabilities	06	6,731					U

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175	0605152N	Studies and Analysis Support - Navy	06	3,089				3,089	U
176	0605154N	Center for Naval Analyses	06	43,517				43,517	U
177	0605285N	Next Generation Fighter	06						U
178	0605502N	Small Business Innovative Research	06						U
179	0605804N	Technical Information Services	06	932				932	U
180	0605853N	Management, Technical & International Support	06	94,297				94,297	U
181	0605856N	Strategic Technical Support	06	3,813				3,813	U
182	0605861N	RDT&E Science and Technology Management	06						U
183	0605863N	RDT&E Ship and Aircraft Support	06	104,822				104,822	U
184	0605864N	Test and Evaluation Support	06	446,960				446,960	U
185	0605865N	Operational Test and Evaluation Capability	06	27,241				27,241	U
186	0605866N	Navy Space and Electronic Warfare (SEW) Support	06	15,787				15,787	U
187	0605867N	SEW Surveillance/Reconnaissance Support	06	8,559				8,559	U
188	0605873M	Marine Corps Program Wide Support	06	42,749				42,749	U
189	0605898N	Management HQ - R&D	06	41,094				41,094	U
190	0606355N	Warfare Innovation Management	06	37,022				37,022	U
191	0606942M	Assessments and Evaluations Cyber Vulnerabilities	06						U

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	
192	0606942N	Assessments and Evaluations Cyber Vulnerabilities	06	42,285					U
193	0305327N	Insider Threat	06	1,682	2,645			2,645	U
194	0902498N	Management Headquarters (Departmental Support Activities)	06	1,568	1,460			1,460	U
195	0909980N	Judgment Fund Reimbursement	06	49					U
196	0909999N	Financing for Cancelled Account Adjustments	06	759					U
197	1206867N	SEW Surveillance/Reconnaissance Support	06	8,676					U
<b>Management Support</b>				<b>1,437,664</b>	<b>999,165</b>	<b>130,444</b>		<b>1,129,609</b>	
199	0604227N	HARPOON Modifications	07	5,016	2,302			2,302	U
200	0604840M	F-35 C2D2	07	222,644	391,165			391,165	U
201	0604840N	F-35 C2D2	07	215,366	354,960			354,960	U
202	0607658N	Cooperative Engagement Capability (CEC)	07	124,413	127,924			127,924	U
203	0607700N	Deployable Joint Command and Control	07	2,817					U
204	0101221N	Strategic Sub & Weapons System Support	07	145,670	125,766			125,766	U
205	0101224N	SSBN Security Technology Program	07	40,804	43,354			43,354	U
206	0101226N	Submarine Acoustic Warfare Development	07	11,102	6,815			6,815	U
207	0101402N	Navy Strategic Communications	07	37,184	28,674			28,674	U
208	0204136N	F/A-18 Squadrons	07	199,881	187,911			187,911	U

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192	0606942N	Assessments and Evaluations Cyber Vulnerabilities	06						U
193	0305327N	Insider Threat	06	2,310				2,310	U
194	0902498N	Management Headquarters (Departmental Support Activities)	06	1,536				1,536	U
195	0909980N	Judgment Fund Reimbursement	06						U
196	0909999N	Financing for Cancelled Account Adjustments	06						U
197	1206867N	SEW Surveillance/Reconnaissance Support	06						U
		<b>Management Support</b>		<b>991,222</b>				<b>991,222</b>	
199	0604227N	HARPOON Modifications	07	697				697	U
200	0604840M	F-35 C2D2	07	379,549				379,549	U
201	0604840N	F-35 C2D2	07	413,875				413,875	U
202	0607658N	Cooperative Engagement Capability (CEC)	07	143,667				143,667	U
203	0607700N	Deployable Joint Command and Control	07						U
204	0101221N	Strategic Sub & Weapons System Support	07	173,056				173,056	U
205	0101224N	SSBN Security Technology Program	07	45,970				45,970	U
206	0101226N	Submarine Acoustic Warfare Development	07	69,190				69,190	U
207	0101402N	Navy Strategic Communications	07	42,277				42,277	U
208	0204136N	F/A-18 Squadrons	07	171,030				171,030	U



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								Total Enacted S (Base+Emerg+ e OCO)	c
209	0204163N	Fleet Telecommunications (Tactical)	07	1,613					U
210	0204228N	Surface Support	07	9,328	34,602			34,602	U
211	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	07	233,913	273,036			273,036	U
212	0204311N	Integrated Surveillance System	07	68,326	103,382			103,382	U
213	0204313N	Ship-Towed Array Surveillance Systems	07	15,250	14,449			14,449	U
214	0204413N	Amphibious Tactical Support Units (Displacement Craft)	07	4,840	6,931			6,931	U
215	0204460M	Ground/Air Task Oriented Radar (G/ ATOR)	07	43,184	28,891			28,891	U
216	0204571N	Consolidated Training Systems Development	07	101,451	128,673			128,673	U
217	0204574N	Cryptologic Direct Support	07	4,244					U
218	0204575N	Electronic Warfare (EW) Readiness Support	07	64,264	71,143			71,143	U
219	0205601N	HARM Improvement	07	116,881	132,371			132,371	U
220	0205604N	Tactical Data Links	07	96,542					U
221	0205620N	Surface ASW Combat System Integration	07	25,478	29,572			29,572	U
222	0205632N	MK-48 ADCAP	07	66,934	72,265			72,265	U
223	0205633N	Aviation Improvements	07	130,986	125,461			125,461	U
224	0205675N	Operational Nuclear Power Systems	07	117,028	106,192			106,192	U
225	0206313M	Marine Corps Communications Systems	07	180,758	156,307		15,000	171,307	U

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209	0204163N	Fleet Telecommunications (Tactical)	07						U
210	0204228N	Surface Support	07	33,482				33,482	U
211	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	07	200,308				200,308	U
212	0204311N	Integrated Surveillance System	07	102,975				102,975	U
213	0204313N	Ship-Towed Array Surveillance Systems	07	10,873				10,873	U
214	0204413N	Amphibious Tactical Support Units (Displacement Craft)	07	1,713				1,713	U
215	0204460M	Ground/Air Task Oriented Radar (G/ATOR)	07	22,205				22,205	U
216	0204571N	Consolidated Training Systems Development	07	83,956				83,956	U
217	0204574N	Cryptologic Direct Support	07						U
218	0204575N	Electronic Warfare (EW) Readiness Support	07	56,791				56,791	U
219	0205601N	HARM Improvement	07	146,166				146,166	U
220	0205604N	Tactical Data Links	07						U
221	0205620N	Surface ASW Combat System Integration	07	29,348				29,348	U
222	0205632N	MK-48 ADCAP	07	110,349				110,349	U
223	0205633N	Aviation Improvements	07	133,953				133,953	U
224	0205675N	Operational Nuclear Power Systems	07	110,313				110,313	U
225	0206313M	Marine Corps Communications Systems	07	207,662				207,662	U

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								Total Enacted	S
								(Base+Emerg+ e	c
								OCO)	
226	0206335M	Common Aviation Command and Control System (CAC2S)	07	4,628	4,489			4,489	U
227	0206623M	Marine Corps Ground Combat/ Supporting Arms Systems	07	95,319	51,788			51,788	U
228	0206624M	Marine Corps Combat Services Support	07	27,642	44,528			44,528	U
229	0206625M	USMC Intelligence/Electronic Warfare Systems (MIP)	07	37,821	27,886			27,886	U
230	0206629M	Amphibious Assault Vehicle	07	18,757	5,476			5,476	U
231	0207161N	Tactical AIM Missiles	07	36,444	19,488			19,488	U
232	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	27,698	34,191			34,191	U
236	0303109N	Satellite Communications (SPACE)	07		34,344			34,344	U
237	0303138N	Consolidated Afloat Network Enterprise Services (CANES)	07	23,322	22,873			22,873	U
238	0303140N	Information Systems Security Program	07	43,348	44,853			44,853	U
239	0305192N	Military Intelligence Program (MIP) Activities	07	6,081	8,913			8,913	U
240	0305204N	Tactical Unmanned Aerial Vehicles	07	8,529	9,451			9,451	U
241	0305205N	UAS Integration and Interoperability	07	24,235	40,446			40,446	U
242	0305208M	Distributed Common Ground/Surface Systems	07	7,610	22,042			22,042	U
243	0305208N	Distributed Common Ground/Surface Systems	07	45,338					U
244	0305220N	MQ-4C Triton	07	13,395	11,784			11,784	U

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226	0206335M	Common Aviation Command and Control System (CAC2S)	07	4,406				4,406	U
227	0206623M	Marine Corps Ground Combat/ Supporting Arms Systems	07	61,381				61,381	U
228	0206624M	Marine Corps Combat Services Support	07	10,421				10,421	U
229	0206625M	USMC Intelligence/Electronic Warfare Systems (MIP)	07	29,977		3,000	3,000	32,977	U
230	0206629M	Amphibious Assault Vehicle	07	6,469				6,469	U
231	0207161N	Tactical AIM Missiles	07	5,859				5,859	U
232	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	07	44,323				44,323	U
236	0303109N	Satellite Communications (SPACE)	07	41,978				41,978	U
237	0303138N	Consolidated Afloat Network Enterprise Services (CANES)	07	29,684				29,684	U
238	0303140N	Information Systems Security Program	07	39,094				39,094	U
239	0305192N	Military Intelligence Program (MIP) Activities	07	6,154				6,154	U
240	0305204N	Tactical Unmanned Aerial Vehicles	07	7,108				7,108	U
241	0305205N	UAS Integration and Interoperability	07	62,098				62,098	U
242	0305208M	Distributed Common Ground/Surface Systems	07	21,500				21,500	U
243	0305208N	Distributed Common Ground/Surface Systems	07						U
244	0305220N	MQ-4C Triton	07	11,120				11,120	U

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	c
245	0305231N	MQ-8 UAV	07	23,144	29,618			29,618	U
246	0305232M	RQ-11 UAV	07	524	509			509	U
247	0305234N	Small (Level 0) Tactical UAS (STUASL0)	07	5,265	9,410			9,410	U
248	0305239M	RQ-21A	07	6,000	10,914			10,914	U
249	0305241N	Multi-Intelligence Sensor Development	07	80,232	70,612			70,612	U
250	0305242M	Unmanned Aerial Systems (UAS) Payloads (MIP)	07	5,956	10,004			10,004	U
251	0305251N	Cyberspace Operations Forces and Force Support	07						U
252	0305421N	RQ-4 Modernization	07	218,366	185,446			185,446	U
253	0307577N	Intelligence Mission Data (IMD)	07						U
254	0308601N	Modeling and Simulation Support	07	6,824	12,119			12,119	U
255	0702207N	Depot Maintenance (Non-IF)	07	36,961	48,182			48,182	U
256	0708730N	Maritime Technology (MARITECH)	07	26,294	26,779			26,779	U
257	1203109N	Satellite Communications (SPACE)	07	32,059	15,868			15,868	U
9999	9999999999	Classified Programs		1,783,585	1,742,227		108,282	1,850,509	U
		<b>Operational Systems Development</b>		<b>4,931,294</b>	<b>5,096,386</b>		<b>123,282</b>	<b>5,219,668</b>	
258	0608013N	Risk management Information - Software Pilot Program	08						U

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245	0305231N	MQ-8 UAV	07	28,968				28,968	U
246	0305232M	RQ-11 UAV	07	537				537	U
247	0305234N	Small (Level 0) Tactical UAS (STUASL0)	07	8,773				8,773	U
248	0305239M	RQ-21A	07	10,853				10,853	U
249	0305241N	Multi-Intelligence Sensor Development	07	60,413				60,413	U
250	0305242M	Unmanned Aerial Systems (UAS) Payloads (MIP)	07	5,000				5,000	U
251	0305251N	Cyberspace Operations Forces and Force Support	07	34,967				34,967	U
252	0305421N	RQ-4 Modernization	07	178,799				178,799	U
253	0307577N	Intelligence Mission Data (IMD)	07	2,120				2,120	U
254	0308601N	Modeling and Simulation Support	07	8,683				8,683	U
255	0702207N	Depot Maintenance (Non-IF)	07	45,168				45,168	U
256	0708730N	Maritime Technology (MARITECH)	07	6,697				6,697	U
257	1203109N	Satellite Communications (SPACE)	07	70,056				70,056	U
9999	9999999999	Classified Programs		1,795,032				1,795,032	U
		<b>Operational Systems Development</b>		<b>5,327,043</b>		<b>3,000</b>	<b>3,000</b>	<b>5,330,043</b>	
258	0608013N	Risk management Information - Software Pilot Program	08	14,300				14,300	U

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259	0608231N	Maritime Tactical Command and Control (MTC2) - Software Pilot Program	08						U
		Software and Digital Technology Pilot Progr							
<b>Total Research, Development, Test &amp; Eval, Navy</b>				<b>18,738,363</b>	<b>20,155,115</b>	<b>130,444</b>	<b>164,410</b>	<b>20,449,969</b>	

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259	0608231N	Maritime Tactical Command and Control (MTC2) - Software Pilot Program	08	10,868				10,868	U
		Software and Digital Technology Pilot Progr		25,168				25,168	
<b>Total Research, Development, Test &amp; Eval, Navy</b>				<b>21,427,048</b>		<b>59,562</b>	<b>59,562</b>	<b>21,486,610</b>	



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<u>Summary Recap of Budget Activities</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
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
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>41,419,014</b>	<b>45,566,955</b>		<b>128,248</b>	<b>45,695,203</b>
 <u>Summary Recap of FYDP Programs</u>					
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
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>41,419,014</b>	<b>45,566,955</b>		<b>128,248</b>	<b>45,695,203</b>

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

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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
<b>Basic Research</b>				<b>545,223</b>	<b>549,761</b>			<b>549,761</b>	
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
16	1206601F	Space Technology	02	131,341	161,667			161,667	U
<b>Applied Research</b>				<b>1,482,434</b>	<b>1,656,126</b>			<b>1,656,126</b>	

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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
<b>Basic Research</b>				<b>492,294</b>				<b>492,294</b>	
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
16	1206601F	Space Technology	02						U
<b>Applied Research</b>				<b>1,409,749</b>				<b>1,409,749</b>	

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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
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	Maui 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
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

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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
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
32	0603605F	Advanced Weapons Technology	03						U
33	0603680F	Manufacturing Technology Program	03						U

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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
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
		<b>Advanced Technology Development</b>		<b>876,008</b>	<b>1,066,453</b>			<b>1,066,453</b>	
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
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

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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
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
		<b>Advanced Technology Development</b>		<b>778,548</b>				<b>778,548</b>	
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
49	0604201F	PNT Resiliency, Mods, and Improvements	04						U
50	0604257F	Advanced Technology and Sensors	04	24,747				24,747	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
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
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

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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
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
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

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								(Base+Emerg+ e	c
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
81	1206857F	Space Rapid Capabilities Office	04	288,289	9,000		17,885	26,885	U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>6,386,187</b>	<b>8,244,911</b>		<b>44,335</b>	<b>8,289,246</b>	
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

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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
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
81	1206857F	Space Rapid Capabilities Office	04						U
<b>Advanced Component Development &amp; Prototypes</b>				<b>7,737,916</b>				<b>7,737,916</b>	
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

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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
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
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

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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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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
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

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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
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

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								(Base+Emerg+ e OCO)	c
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
<b>System Development &amp; Demonstration</b>				<b>5,377,043</b>	<b>6,690,641</b>			<b>6,690,641</b>	
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
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

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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
<b>System Development &amp; Demonstration</b>				<b>2,615,359</b>				<b>2,615,359</b>	
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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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	
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	

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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
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

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	
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
<b>Management Support</b>				<b>3,769,578</b>	<b>2,878,071</b>			<b>2,878,071</b>	
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
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

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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
<b>Management Support</b>				<b>2,891,280</b>				<b>2,891,280</b>	
162	0604003F	Advanced Battle Management System (ABMS)	07						U
163	0604233F	Specialized Undergraduate Flight Training	07	8,777				8,777	U
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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
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

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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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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	
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	

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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
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

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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
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

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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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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	
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	

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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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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
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

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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
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

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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
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

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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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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
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

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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
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

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								Total Enacted S (Base+Emerg+ e OCO)	c
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	NCCM - TW/AA System	07						U
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
		<b>Operational Systems Development</b>		<b>22,982,541</b>	<b>24,480,992</b>		<b>83,913</b>	<b>24,564,905</b>	
		<b>Total Research, Development, Test &amp; Eval, AF</b>		<b>41,419,014</b>	<b>45,566,955</b>		<b>128,248</b>	<b>45,695,203</b>	

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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
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	NCCM - TW/AA System	07	6,990				6,990	U
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
		<b>Operational Systems Development</b>		<b>21,466,680</b>		<b>5,304</b>	<b>5,304</b>	<b>21,471,984</b>	
		<b>Total Research, Development, Test &amp; Eval, AF</b>		<b>37,391,826</b>		<b>5,304</b>	<b>5,304</b>	<b>37,397,130</b>	

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	FY 2019 <u>(Base + OCO)</u>	FY 2020 <u>Base Enacted</u>	FY 2020 <u>Emergency</u>	FY 2020 <u>OCO Enacted</u>	FY 2020 Total Enacted (Base+Emerg+ OCO)
<b><u>Summary Recap of Budget Activities</u></b>					
Applied Research					
Advanced Component Development & Prototypes					
System Development & Demonstration					
Management Support					
Operational System Development					
Software & Digital Technology Pilot Programs					
<b>Total Research, Development, Test &amp; Evaluation</b>					
<b><u>Summary Recap of FYDP Programs</u></b>					
Space					
Classified Programs					
<b>Total Research, Development, Test &amp; Evaluation</b>					

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	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)
<b><u>Summary Recap of Budget Activities</u></b>					
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
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>10,327,595</b>				<b>10,327,595</b>
<b><u>Summary Recap of FYDP Programs</u></b>					
Space	6,694,729				6,694,729
Classified Programs	3,632,866				3,632,866
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>10,327,595</b>				<b>10,327,595</b>

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Appropriation: 3620F RDTE, Space Force

Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020	c
								Total Enacted S (Base+Emerg+ e OCO)	
1	1206601SF	Space Technology	02	-----	-----	-----	-----	-----	U
<b>Applied Research</b>									
2	1203164SF	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04						U
3	1203710SF	EO/IR Weather Systems	04						U
4	1206422SF	Weather System Follow-on	04						U
5	1206425SF	Space Situation Awareness Systems	04						U
6	1206427SF	Space Systems Prototype Transitions (SSPT)	04						U
7	1206438SF	Space Control Technology	04						U
8	1206760SF	Protected Tactical Enterprise Service (PTES)	04						U
9	1206761SF	Protected Tactical Service (PTS)	04						U
10	1206855SF	Evolved Strategic SATCOM (ESS)	04						U
11	1206857SF	Space Rapid Capabilities Office	04	-----	-----	-----	-----	-----	U
<b>Advanced Component Development &amp; Prototypes</b>									
12	1203269SF	GPS III Follow-On (GPS IIIF)	05						U
13	1203940SF	Space Situation Awareness Operations	05						U
14	1206421SF	Counterspace Systems	05						U
15	1206422SF	Weather System Follow-on	05						U
16	1206425SF	Space Situation Awareness Systems	05						U
17	1206431SF	Advanced EHF MILSATCOM (SPACE)	05						U

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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	1206601SF	Space Technology	02	130,874				130,874	U
		<b>Applied Research</b>		<b>130,874</b>				<b>130,874</b>	
2	1203164SF	NAVSTAR Global Positioning System (User Equipment) (SPACE)	04	390,704				390,704	U
3	1203710SF	EO/IR Weather Systems	04	131,000				131,000	U
4	1206422SF	Weather System Follow-on	04	83,384				83,384	U
5	1206425SF	Space Situation Awareness Systems	04	33,359				33,359	U
6	1206427SF	Space Systems Prototype Transitions (SSPT)	04	142,808				142,808	U
7	1206438SF	Space Control Technology	04	35,575				35,575	U
8	1206760SF	Protected Tactical Enterprise Service (PTES)	04	114,390				114,390	U
9	1206761SF	Protected Tactical Service (PTS)	04	205,178				205,178	U
10	1206855SF	Evolved Strategic SATCOM (ESS)	04	71,395				71,395	U
11	1206857SF	Space Rapid Capabilities Office	04	103,518				103,518	U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>1,311,311</b>				<b>1,311,311</b>	
12	1203269SF	GPS III Follow-On (GPS IIIF)	05	263,496				263,496	U
13	1203940SF	Space Situation Awareness Operations	05	41,897				41,897	U
14	1206421SF	Counterspace Systems	05	54,689				54,689	U
15	1206422SF	Weather System Follow-on	05	2,526				2,526	U
16	1206425SF	Space Situation Awareness Systems	05	173,074				173,074	U
17	1206431SF	Advanced EHF MILSATCOM (SPACE)	05	138,257				138,257	U

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Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020	c
								Total Enacted S (Base+Emerg+ e OCO)	
18	1206432SF	Polar MILSATCOM (SPACE)	05						U
19	1206442SF	Next Generation OPIR	05						U
20	1206853SF	National Security Space Launch Program (SPACE) - EMD	05						U
-----									
<b>System Development &amp; Demonstration</b>									
21	1206116SF	Space Test and Training Range Development	06						U
22	1206392SF	ACQ Workforce - Space & Missile Systems	06						U
23	1206398SF	Space & Missile Systems Center - MHA	06						U
24	1206860SF	Rocket Systems Launch Program (SPACE)	06						U
25	1206864SF	Space Test Program (STP)	06						U
-----									
<b>Management Support</b>									
26	1201017SF	Global Sensor Integrated on Network (GSIN)	07						U
27	1203001SF	Family of Advanced BLoS Terminals (FAB-T)	07						U
28	1203110SF	Satellite Control Network (SPACE)	07						U
29	1203165SF	NAVSTAR Global Positioning System (Space and Control Segments)	07						U
30	1203173SF	Space and Missile Test and Evaluation Center	07						U
31	1203174SF	Space Innovation, Integration and Rapid Technology Development	07						U

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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
18	1206432SF	Polar MILSATCOM (SPACE)	05	190,235				190,235	U
19	1206442SF	Next Generation OPIR	05	2,318,864				2,318,864	U
20	1206853SF	National Security Space Launch Program (SPACE) - EMD	05	560,978				560,978	U
<b>System Development &amp; Demonstration</b>				<b>3,744,016</b>				<b>3,744,016</b>	
21	1206116SF	Space Test and Training Range Development	06	20,281				20,281	U
22	1206392SF	ACQ Workforce - Space & Missile Systems	06	183,930				183,930	U
23	1206398SF	Space & Missile Systems Center - MHA	06	9,765				9,765	U
24	1206860SF	Rocket Systems Launch Program (SPACE)	06	17,993				17,993	U
25	1206864SF	Space Test Program (STP)	06	26,541				26,541	U
<b>Management Support</b>				<b>258,510</b>				<b>258,510</b>	
26	1201017SF	Global Sensor Integrated on Network (GSIN)	07	3,708				3,708	U
27	1203001SF	Family of Advanced BLoS Terminals (FAB-T)	07	247,229				247,229	U
28	1203110SF	Satellite Control Network (SPACE)	07	75,480				75,480	U
29	1203165SF	NAVSTAR Global Positioning System (Space and Control Segments)	07	1,984				1,984	U
30	1203173SF	Space and Missile Test and Evaluation Center	07	4,397				4,397	U
31	1203174SF	Space Innovation, Integration and Rapid Technology Development	07	44,746				44,746	U

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Line No	Program Element Number	Item	Act	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020	c
								Total Enacted S (Base+Emerg+ e OCO)	
32	1203182SF	Spacelift Range System (SPACE)	07						U
33	1203265SF	GPS III Space Segment	07						U
34	1203873SF	Ballistic Missile Defense Radars	07						U
35	1203913SF	NUDET Detection System (SPACE)	07						U
36	1203940SF	Space Situation Awareness Operations	07						U
37	1206423SF	Global Positioning System III - Operational Control Segment	07						U
41	1206770SF	Enterprise Ground Services	07						U
9999	9999999999	Classified Programs		-----	-----	-----	-----	-----	U
		<b>Operational System Development</b>							
42	1203614SF	JSpOC Mission System	08						U
		<b>Software &amp; Digital Technology Pilot Program</b>							
		<b>Total RDTE, Space Force</b>		-----	-----	-----	-----	-----	

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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	1203182SF	Spacelift Range System (SPACE)	07	11,020				11,020	U
33	1203265SF	GPS III Space Segment	07	10,777				10,777	U
34	1203873SF	Ballistic Missile Defense Radars	07	28,179				28,179	U
35	1203913SF	NUDET Detection System (SPACE)	07	29,157				29,157	U
36	1203940SF	Space Situation Awareness Operations	07	44,809				44,809	U
37	1206423SF	Global Positioning System III - Operational Control Segment	07	481,999				481,999	U
41	1206770SF	Enterprise Ground Services	07	116,791				116,791	U
9999	9999999999	Classified Programs		3,632,866				3,632,866	U
		<b>Operational System Development</b>		<b>4,733,142</b>				<b>4,733,142</b>	
42	1203614SF	JSpOC Mission System	08	149,742				149,742	U
		<b>Software &amp; Digital Technology Pilot Program</b>		<b>149,742</b>				<b>149,742</b>	
<b>Total RDTE, Space Force</b>				<b>10,327,595</b>				<b>10,327,595</b>	

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<u>Summary Recap of Budget Activities</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
Basic Research	777,142	828,300			828,300
Applied Research	1,873,730	1,994,528		1,677	1,996,205
Advanced Technology Development	3,660,195	3,906,848		74,758	3,981,606
Advanced Component Development & Prototypes	9,821,379	10,448,295		113,590	10,561,885
System Development & Demonstration	1,109,307	883,867			883,867
Management Support	1,779,530	1,611,137			1,611,137
Operational Systems Development	5,279,561	6,265,052		204,235	6,469,287
Software And Digital Technology Pilot Programs					
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>24,300,844</b>	<b>25,938,027</b>		<b>394,260</b>	<b>26,332,287</b>
<u>Summary Recap of FYDP Programs</u>					
General Purpose Forces	90,905	85,912			85,912
Intelligence and Communications	842,966	1,031,122			1,031,122
Research and Development	18,391,228	19,138,285		190,025	19,328,310
Central Supply and Maintenance	4,761	6,611			6,611
Training Medical and Other	43,600	40,173			40,173
Administration and Associated Activities	34,479	33,155			33,155
Special Operations Forces	606,348	833,768		11,726	845,494
Space	132,966	277,456			277,456
Classified Programs	4,153,591	4,491,545		192,509	4,684,054
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>24,300,844</b>	<b>25,938,027</b>		<b>394,260</b>	<b>26,332,287</b>

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<u>Summary Recap of Budget Activities</u>	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	760,386				760,386
Applied Research	1,976,390		3,699	3,699	1,980,089
Advanced Technology Development	3,588,876		23,149	23,149	3,612,025
Advanced Component Development & Prototypes	9,416,712		19,931	19,931	9,436,643
System Development & Demonstration	603,808				603,808
Management Support	1,297,392				1,297,392
Operational Systems Development	6,161,946		36,039	36,039	6,197,985
Software And Digital Technology Pilot Programs	475,381				475,381
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>24,280,891</b>		<b>82,818</b>	<b>82,818</b>	<b>24,363,709</b>
 <u>Summary Recap of FYDP Programs</u>					
General Purpose Forces	69,009				69,009
Intelligence and Communications	997,390				997,390
Research and Development	17,282,831		46,779	46,779	17,329,610
Central Supply and Maintenance	10,740				10,740
Training Medical and Other	31,225				31,225
Administration and Associated Activities	30,040				30,040
Special Operations Forces	713,740		11,982	11,982	725,722
Space	357,867				357,867
Classified Programs	4,788,049		24,057	24,057	4,812,106
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>24,280,891</b>		<b>82,818</b>	<b>82,818</b>	<b>24,363,709</b>

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Chemical and Biological Defense Program	998,721	1,066,187			1,066,187
Defense Advanced Research Projects Agency	3,425,549	3,458,321			3,458,321
Defense Contract Audit Agency	2,600	1,600			1,600
Defense Contract Management Agency	2,090	3,495			3,495
Defense Counterintelligence & Security Agency					
Defense-Wide		3,000			3,000
Defense Human Resources Activity	24,290	36,843			36,843
Defense Intelligence Agency					
Defense Information Systems Agency	326,302	497,936			497,936
Defense Logistics Agency	332,136	315,202			315,202
Defense Security Cooperative Agency	7,734	14,257			14,257
Defense Technical Information Center	60,977	60,743			60,743
Defense Threat Reduction Agency	663,254	543,261		164,795	708,056
Missile Defense Agency	7,246,099	8,138,197			8,138,197
National Geospatial Intelligence Agency					
National Security Agency					
Office of Secretary of Defense	5,984,436	5,827,044		25,230	5,852,274
Space Development Agency		95,000			95,000
U.S., Special Operations Command	612,634	840,127		11,726	851,853
The Joint Staff	134,265	150,246			150,246
Washington Headquarters Services	30,198	1,000			1,000
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>24,300,844</b>	<b>25,938,027</b>		<b>394,260</b>	<b>26,332,287</b>

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Chemical and Biological Defense Program	993,732				993,732
Defense Advanced Research Projects Agency	3,566,348				3,566,348
Defense Contract Audit Agency	2,198				2,198
Defense Contract Management Agency	1,441				1,441
Defense Counterintelligence & Security Agency					
Defense-Wide					
Defense Human Resources Activity	37,919				37,919
Defense Intelligence Agency					
Defense Information Systems Agency	396,750				396,750
Defense Logistics Agency	206,947				206,947
Defense Security Cooperative Agency	6,294				6,294
Defense Technical Information Center	62,206				62,206
Defense Threat Reduction Agency	576,997		27,491	27,491	604,488
Missile Defense Agency	7,169,641				7,169,641
National Geospatial Intelligence Agency					
National Security Agency					
Office of Secretary of Defense	4,772,874		19,288	19,288	4,792,162
Space Development Agency	288,416				288,416
U.S., Special Operations Command	719,806		11,982	11,982	731,788
The Joint Staff	118,451				118,451
Washington Headquarters Services	999				999
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>24,280,891</b>		<b>82,818</b>	<b>82,818</b>	<b>24,363,709</b>

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Appropriation: 0400D Research, Development, Test &amp; Eval, DW

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	0601000BR	DTRA Basic Research	01	36,148	26,000			26,000	U
2	0601101E	Defense Research Sciences	01	423,895	432,284			432,284	U
3	0601110D8Z	Basic Research Initiatives	01	55,195	70,874			70,874	U
4	0601117E	Basic Operational Medical Research Science	01	49,692	54,122			54,122	U
5	0601120D8Z	National Defense Education Program	01	132,743	144,074			144,074	U
6	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	01	38,568	52,708			52,708	U
7	0601384BP	Chemical and Biological Defense Program	01	40,901	48,238			48,238	U
		<b>Basic Research</b>		<b>777,142</b>	<b>828,300</b>			<b>828,300</b>	
8	0602000D8Z	Joint Munitions Technology	02	19,067	19,306			19,306	U
9	0602115E	Biomedical Technology	02	94,423	92,771			92,771	U
10	0602134BR	Counter Improvised-Threat Advanced Studies	02				1,677	1,677	U
11	0602230D8Z	Defense Technology Innovation	02						U
12	0602234D8Z	Lincoln Laboratory Research Program	02	49,647	52,317			52,317	U
13	0602251D8Z	Applied Research for the Advancement of S&T Priorities	02	59,567	60,400			60,400	U
14	0602303E	Information & Communications Technology	02	401,453	428,556			428,556	U
15	0602383E	Biological Warfare Defense	02	31,951	34,588			34,588	U
16	0602384BP	Chemical and Biological Defense Program	02	189,614	215,057			215,057	U

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Appropriation: 0400D Research, Development, Test &amp; Eval, DW

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	0601000BR	DTRA Basic Research	01	14,617				14,617	U
2	0601101E	Defense Research Sciences	01	479,958				479,958	U
3	0601110D8Z	Basic Research Initiatives	01	35,565				35,565	U
4	0601117E	Basic Operational Medical Research Science	01	53,730				53,730	U
5	0601120D8Z	National Defense Education Program	01	100,241				100,241	U
6	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	01	30,975				30,975	U
7	0601384BP	Chemical and Biological Defense Program	01	45,300				45,300	U
		<b>Basic Research</b>		<b>760,386</b>				<b>760,386</b>	
8	0602000D8Z	Joint Munitions Technology	02	19,409				19,409	U
9	0602115E	Biomedical Technology	02	107,568				107,568	U
10	0602134BR	Counter Improvised-Threat Advanced Studies	02			3,699	3,699	3,699	U
11	0602230D8Z	Defense Technology Innovation	02	35,000				35,000	U
12	0602234D8Z	Lincoln Laboratory Research Program	02	41,080				41,080	U
13	0602251D8Z	Applied Research for the Advancement of S&T Priorities	02	60,722				60,722	U
14	0602303E	Information & Communications Technology	02	435,920				435,920	U
15	0602383E	Biological Warfare Defense	02	26,950				26,950	U
16	0602384BP	Chemical and Biological Defense Program	02	201,807				201,807	U

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted			
17	0602668D8Z	Cyber Security Research	02	14,594	25,118				25,118	U
18	0602702E	Tactical Technology	02	295,118	313,002				313,002	U
19	0602715E	Materials and Biological Technology	02	192,774	214,976				214,976	U
20	0602716E	Electronics Technology	02	331,905	317,192				317,192	U
21	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	150,040	174,096				174,096	U
22	0602751D8Z	Software Engineering Institute (SEI) Applied Research	02	8,942	9,580				9,580	U
23	1160401BB	SOF Technology Development	02	34,635	37,569				37,569	U
		<b>Applied Research</b>		<b>1,873,730</b>	<b>1,994,528</b>			<b>1,677</b>	<b>1,996,205</b>	
24	0603000D8Z	Joint Munitions Advanced Technology	03	25,462	25,779				25,779	U
25	0603121D8Z	SO/LIC Advanced Development	03		5,000				5,000	U
26	0603122D8Z	Combating Terrorism Technology Support	03	168,012	91,517		25,230		116,747	U
27	0603133D8Z	Foreign Comparative Testing	03	23,867	24,970				24,970	U
28	0603134BR	Counter Improvised-Threat Simulation	03	13,648			49,528		49,528	U
29	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	275,246	330,065				330,065	U
30	0603176C	Advanced Concepts and Performance Assessment	03	12,720	46,201				46,201	U
31	0603178C	Weapons Technology	03	13,400						U
32	0603180C	Advanced Research	03	42,100	27,674				27,674	U

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17	0602668D8Z	Cyber Security Research	02	15,255				15,255	U
18	0602702E	Tactical Technology	02	233,271				233,271	U
19	0602715E	Materials and Biological Technology	02	250,107				250,107	U
20	0602716E	Electronics Technology	02	322,693				322,693	U
21	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	174,571				174,571	U
22	0602751D8Z	Software Engineering Institute (SEI) Applied Research	02	9,573				9,573	U
23	1160401BB	SOF Technology Development	02	42,464				42,464	U
		<b>Applied Research</b>		<b>1,976,390</b>		<b>3,699</b>	<b>3,699</b>	<b>1,980,089</b>	
24	0603000D8Z	Joint Munitions Advanced Technology	03	22,920				22,920	U
25	0603121D8Z	SO/LIC Advanced Development	03	4,914				4,914	U
26	0603122D8Z	Combating Terrorism Technology Support	03	51,089		19,288	19,288	70,377	U
27	0603133D8Z	Foreign Comparative Testing	03	25,183				25,183	U
28	0603134BR	Counter Improvised-Threat Simulation	03			3,861	3,861	3,861	U
29	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	366,659				366,659	U
30	0603176C	Advanced Concepts and Performance Assessment	03	14,910				14,910	U
31	0603178C	Weapons Technology	03						U
32	0603180C	Advanced Research	03	18,687				18,687	U

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								Total Enacted	S
								(Base+Emerg+ e	c
								OCO)	
33	0603225D8Z	Joint DoD-DoE Munitions Technology Development	03	17,941	18,773			18,773	U
34	0603286E	Advanced Aerospace Systems	03	287,907	279,741			279,741	U
35	0603287E	Space Programs and Technology	03	256,181	190,306			190,306	U
36	0603288D8Z	Analytic Assessments	03	17,768	18,429			18,429	U
37	0603289D8Z	Advanced Innovative Analysis and Concepts	03	36,344	37,645			37,645	U
38	0603291D8Z	Advanced Innovative Analysis and Concepts - MHA	03	13,286	14,668			14,668	U
39	0603294C	Common Kill Vehicle Technology	03	55,549	13,600			13,600	U
40	0603338D8Z	Defense Modernization and Prototyping	03						U
41	0603342D8W	Defense Innovation Unit Experimental (DIUx)	03	29,198					U
42	0603342D8Z	Defense Innovation Unit (DIU)	03		29,398			29,398	U
43	0603375D8Z	Technology Innovation	03	25,856	30,000			30,000	U
44	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	140,740	175,486			175,486	U
45	0603527D8Z	RETRACT LARCH	03	161,453	159,688			159,688	U
46	0603618D8Z	Joint Electronic Advanced Technology	03	12,680	12,063			12,063	U
47	0603648D8Z	Joint Capability Technology Demonstrations	03	102,494	89,859			89,859	U
48	0603662D8Z	Networked Communications Capabilities	03	12,291	2,858			2,858	U

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33	0603225D8Z	Joint DoD-DoE Munitions Technology Development	03	18,873				18,873	U
34	0603286E	Advanced Aerospace Systems	03	230,978				230,978	U
35	0603287E	Space Programs and Technology	03	158,439				158,439	U
36	0603288D8Z	Analytic Assessments	03	23,775				23,775	U
37	0603289D8Z	Advanced Innovative Analysis and Concepts	03	36,524				36,524	U
38	0603291D8Z	Advanced Innovative Analysis and Concepts - MHA	03	14,703				14,703	U
39	0603294C	Common Kill Vehicle Technology	03	11,058				11,058	U
40	0603338D8Z	Defense Modernization and Prototyping	03	133,375				133,375	U
41	0603342D8W	Defense Innovation Unit Experimental (DIUx)	03						U
42	0603342D8Z	Defense Innovation Unit (DIU)	03	26,141				26,141	U
43	0603375D8Z	Technology Innovation	03	27,709				27,709	U
44	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	188,001				188,001	U
45	0603527D8Z	RETRACT LARCH	03	130,283				130,283	U
46	0603618D8Z	Joint Electronic Advanced Technology	03	15,164				15,164	U
47	0603648D8Z	Joint Capability Technology Demonstrations	03	85,452				85,452	U
48	0603662D8Z	Networked Communications Capabilities	03	5,882				5,882	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
49	0603680D8Z	Defense-Wide Manufacturing Science and Technology Program	03	171,749	197,397			197,397	U
50	0603680S	Manufacturing Technology Program	03	62,396	51,002			51,002	U
51	0603699D8Z	Emerging Capabilities Technology Development	03	59,350	109,411			109,411	U
52	0603712S	Generic Logistics R&D Technology Demonstrations	03	18,127	16,620			16,620	U
53	0603716D8Z	Strategic Environmental Research Program	03	75,485	66,157			66,157	U
54	0603720S	Microelectronics Technology Development and Support	03	192,926	200,530			200,530	U
55	0603727D8Z	Joint Warfighting Program	03	5,161	4,846			4,846	U
56	0603739E	Advanced Electronics Technologies	03	100,042	123,616			123,616	U
57	0603760E	Command, Control and Communications Systems	03	178,074	229,134			229,134	U
58	0603766E	Network-Centric Warfare Technology	03	413,948	507,424			507,424	U
59	0603767E	Sensor Technology	03	174,094	158,903			158,903	U
60	0603769D8Z	Distributed Learning Advanced Technology Development	03	13,414	22,446			22,446	U
61	0603781D8Z	Software Engineering Institute	03	15,016	15,111			15,111	U
62	0603826D8Z	Quick Reaction Special Projects	03	57,004	35,647			35,647	U
63	0603833D8Z	Engineering Science & Technology	03	18,895	19,376			19,376	U
64	0603924D8Z	High Energy Laser Advanced Technology Program	03	71,819	80,723			80,723	U
65	0603941D8Z	Test & Evaluation Science & Technology	03	114,559	191,574			191,574	U

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49	0603680D8Z	Defense-Wide Manufacturing Science and Technology Program	03	93,817				93,817	U
50	0603680S	Manufacturing Technology Program	03	40,025				40,025	U
51	0603699D8Z	Emerging Capabilities Technology Development	03						U
52	0603712S	Generic Logistics R&D Technology Demonstrations	03	10,235				10,235	U
53	0603716D8Z	Strategic Environmental Research Program	03	53,862				53,862	U
54	0603720S	Microelectronics Technology Development and Support	03	124,049				124,049	U
55	0603727D8Z	Joint Warfighting Program	03	3,871				3,871	U
56	0603739E	Advanced Electronics Technologies	03	95,864				95,864	U
57	0603760E	Command, Control and Communications Systems	03	221,724				221,724	U
58	0603766E	Network-Centric Warfare Technology	03	661,158				661,158	U
59	0603767E	Sensor Technology	03	200,220				200,220	U
60	0603769D8Z	Distributed Learning Advanced Technology Development	03	6,765				6,765	U
61	0603781D8Z	Software Engineering Institute	03	12,598				12,598	U
62	0603826D8Z	Quick Reaction Special Projects	03						U
63	0603833D8Z	Engineering Science & Technology	03						U
64	0603924D8Z	High Energy Laser Advanced Technology Program	03	105,410				105,410	U
65	0603941D8Z	Test & Evaluation Science & Technology	03	187,065				187,065	U

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted			
66	0603950D8Z	National Security Innovation Network	03		40,000				40,000	U
67	0604055D8Z	Operational Energy Capability Improvement	03	44,362	64,900				64,900	U
68	0303310D8Z	CWMD Systems	03	25,619	28,907				28,907	U
69	0303367D8Z	Spectrum Access Research and Development	03	27,002						U
70	1160402BB	SOF Advanced Technology Development	03	77,010	99,404				99,404	U
71	1206310SDA	Space Science and Technology Research and Development	03		20,000				20,000	U
<b>Advanced Technology Development</b>				<b>3,660,195</b>	<b>3,906,848</b>			<b>74,758</b>	<b>3,981,606</b>	
72	0603161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	04	27,123	42,695				42,695	U
73	0603600D8Z	WALKOFF	04	89,376	92,791				92,791	U
74	0603821D8Z	Acquisition Enterprise Data & Information Services	04	2,500	5,659				5,659	U
75	0603851D8Z	Environmental Security Technical Certification Program	04	41,058	68,572				68,572	U
76	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	383,369	306,761				306,761	U
77	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	790,316	1,303,716				1,303,716	U
78	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	115,452	80,162				80,162	U
79	0603884C	Ballistic Missile Defense Sensors	04	382,759	352,288				352,288	U
80	0603890C	BMD Enabling Programs	04	614,855	634,449				634,449	U

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66	0603950D8Z	National Security Innovation Network	03						U
67	0604055D8Z	Operational Energy Capability Improvement	03						U
68	0303310D8Z	CWMD Systems	03						U
69	0303367D8Z	Spectrum Access Research and Development	03						U
70	1160402BB	SOF Advanced Technology Development	03	89,072				89,072	U
71	1206310SDA	Space Science and Technology Research and Development	03	72,422				72,422	U
		<b>Advanced Technology Development</b>		<b>3,588,876</b>		<b>23,149</b>	<b>23,149</b>	<b>3,612,025</b>	
72	0603161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	04	32,636				32,636	U
73	0603600D8Z	WALKOFF	04	106,529				106,529	U
74	0603821D8Z	Acquisition Enterprise Data & Information Services	04						U
75	0603851D8Z	Environmental Security Technical Certification Program	04	61,345				61,345	U
76	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	412,627				412,627	U
77	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	1,004,305				1,004,305	U
78	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	76,167				76,167	U
79	0603884C	Ballistic Missile Defense Sensors	04	281,957				281,957	U
80	0603890C	BMD Enabling Programs	04	599,380				599,380	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
81	0603891C	Special Programs - MDA	04	418,722	512,098			512,098	U
82	0603892C	AEGIS BMD	04	724,731	737,269			737,269	U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	500,965	549,756			549,756	U
84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	48,401	51,532			51,532	U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	51,689	56,161			56,161	U
86	0603906C	Regarding Trench	04	16,512	22,424			22,424	U
87	0603907C	Sea Based X-Band Radar (SBX)	04	125,900	128,156			128,156	U
88	0603913C	Israeli Cooperative Programs	04	300,000	300,000			300,000	U
89	0603914C	Ballistic Missile Defense Test	04	510,292	399,738			399,738	U
90	0603915C	Ballistic Missile Defense Targets	04	561,349	542,939			542,939	U
91	0603920D8Z	Humanitarian Demining	04	10,952	14,700			14,700	U
92	0603923D8Z	Coalition Warfare	04	8,379	11,316			11,316	U
93	0604011D8Z	Next Generation Information Communications Technology (5G)	04	52,000	200,000			200,000	U
94	0604016D8Z	Department of Defense Corrosion Program	04	9,281	13,165			13,165	U
95	0604115C	Technology Maturation Initiatives	04	312,074	264,520			264,520	U
96	0604132D8Z	Missile Defeat Project	04	41,961	14,816			14,816	U
97	0604134BR	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	169,638			113,590	113,590	U

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81	0603891C	Special Programs - MDA	04	420,216				420,216	U
82	0603892C	AEGIS BMD	04	814,936				814,936	U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	593,353				593,353	U
84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	49,560				49,560	U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	55,356				55,356	U
86	0603906C	Regarding Trench	04	11,863				11,863	U
87	0603907C	Sea Based X-Band Radar (SBX)	04	118,318				118,318	U
88	0603913C	Israeli Cooperative Programs	04	300,000				300,000	U
89	0603914C	Ballistic Missile Defense Test	04	378,302				378,302	U
90	0603915C	Ballistic Missile Defense Targets	04	536,133				536,133	U
91	0603920D8Z	Humanitarian Demining	04						U
92	0603923D8Z	Coalition Warfare	04	10,129				10,129	U
93	0604011D8Z	Next Generation Information Communications Technology (5G)	04	449,000				449,000	U
94	0604016D8Z	Department of Defense Corrosion Program	04	3,325				3,325	U
95	0604115C	Technology Maturation Initiatives	04	67,389				67,389	U
96	0604132D8Z	Missile Defeat Project	04						U
97	0604134BR	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04			19,931	19,931	19,931	U

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98	0604181C	Hypersonic Defense	04	132,612	390,204			390,204	U
99	0604250D8Z	Advanced Innovative Technologies	04	1,347,956	1,133,365			1,133,365	U
100	0604294D8Z	Trusted & Assured Microelectronics	04	517,356	547,421			547,421	U
101	0604331D8Z	Rapid Prototyping Program	04	96,196	72,351			72,351	U
102	0604341D8Z	Defense Innovation Unit (DIU) Prototyping	04		17,000			17,000	U
103	0604400D8Z	Department of Defense (DoD) Unmanned System Common Development	04	7,625	7,021			7,021	U
104	0604532D8Z	Joint Artificial Intelligence	04	12,968					U
105	0604672C	Homeland Defense Radar - Hawaii (HDR-H)	04	70,735	188,480			188,480	U
106	0604673C	Pacific Discriminating Radar	04	14,453	6,711			6,711	U
107	0604682D8Z	Wargaming and Support for Strategic Analysis (SSA)	04	3,621	3,751			3,751	U
108	0604775D8Z	Defense Rapid Innovation Program	04	241,194					U
109	0604826J	Joint C5 Capability Development, Integration and interoperability Assessments	04	21,904	20,062			20,062	U
110	0604873C	Long Range Discrimination Radar (LRDR)	04	172,705	136,423			136,423	U
111	0604874C	Improved Homeland Defense Interceptors	04	407,858	515,000			515,000	U
112	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	57,972	25,137			25,137	U
113	0604878C	Aegis BMD Test	04	92,160	169,822			169,822	U

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98	0604181C	Hypersonic Defense	04	206,832				206,832	U
99	0604250D8Z	Advanced Innovative Technologies	04	730,508				730,508	U
100	0604294D8Z	Trusted & Assured Microelectronics	04	489,076				489,076	U
101	0604331D8Z	Rapid Prototyping Program	04	102,023				102,023	U
102	0604341D8Z	Defense Innovation Unit (DIU) Prototyping	04	13,255				13,255	U
103	0604400D8Z	Department of Defense (DoD) Unmanned System Common Development	04	2,787				2,787	U
104	0604532D8Z	Joint Artificial Intelligence	04						U
105	0604672C	Homeland Defense Radar - Hawaii (HDR-H)	04						U
106	0604673C	Pacific Discriminating Radar	04						U
107	0604682D8Z	Wargaming and Support for Strategic Analysis (SSA)	04	3,469				3,469	U
108	0604775D8Z	Defense Rapid Innovation Program	04						U
109	0604826J	Joint C5 Capability Development, Integration and interoperability Assessments	04	19,190				19,190	U
110	0604873C	Long Range Discrimination Radar (LRDR)	04	137,256				137,256	U
111	0604874C	Improved Homeland Defense Interceptors	04	664,138				664,138	U
112	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	7,768				7,768	U
113	0604878C	Aegis BMD Test	04	170,880				170,880	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
114	0604879C	Ballistic Missile Defense Sensor Test	04	71,905	105,530			105,530	U
115	0604880C	Land-Based SM-3 (LBSM3)	04	25,200	38,352			38,352	U
116	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	72,634	98,139			98,139	U
117	0604894C	Multi-Object Kill Vehicle	04	5,754					U
118	0300206R	Enterprise Information Technology Systems	04	2,600	1,600			1,600	U
119	0303191D8Z	Joint Electromagnetic Technology (JET) Program	04	3,096	3,191			3,191	U
120	0305103C	Cyber Security Initiative	04	961	11,138			11,138	U
121	1206410SDA	Space Technology Development and Prototyping	04		75,000			75,000	U
122	1206893C	Space Tracking & Surveillance System	04	36,114	36,349			36,349	U
123	1206895C	Ballistic Missile Defense System Space Programs	04	96,146	140,565			140,565	U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>9,821,379</b>	<b>10,448,295</b>		<b>113,590</b>	<b>10,561,885</b>	
124	0604161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E SDD	05	8,185	11,276			11,276	U
125	0604165D8Z	Prompt Global Strike Capability Development	05	525,670	151,000			151,000	U
126	0604384BP	Chemical and Biological Defense Program - EMD	05	344,745	385,047			385,047	U
127	0604771D8Z	Joint Tactical Information Distribution System (JTIDS)	05	46,210	54,102			54,102	U

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114	0604879C	Ballistic Missile Defense Sensor Test	04	76,456				76,456	U
115	0604880C	Land-Based SM-3 (LBSM3)	04	56,628				56,628	U
116	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	67,071				67,071	U
117	0604894C	Multi-Object Kill Vehicle	04						U
118	0300206R	Enterprise Information Technology Systems	04	2,198				2,198	U
119	0303191D8Z	Joint Electromagnetic Technology (JET) Program	04	997				997	U
120	0305103C	Cyber Security Initiative	04	1,148				1,148	U
121	1206410SDA	Space Technology Development and Prototyping	04	215,994				215,994	U
122	1206893C	Space Tracking & Surveillance System	04	34,144				34,144	U
123	1206895C	Ballistic Missile Defense System Space Programs	04	32,068				32,068	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>9,416,712</b>		<b>19,931</b>	<b>19,931</b>	<b>9,436,643</b>	
124	0604161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E SDD	05	7,173				7,173	U
125	0604165D8Z	Prompt Global Strike Capability Development	05						U
126	0604384BP	Chemical and Biological Defense Program - EMD	05	319,976				319,976	U
127	0604771D8Z	Joint Tactical Information Distribution System (JTIDS)	05	54,985				54,985	U

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128	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	7,219	13,100			13,100	U
129	0605013BL	Information Technology Development	05	2,090	3,070			3,070	U
130	0605021SE	Homeland Personnel Security Initiative	05	285	7,295			7,295	U
131	0605022D8Z	Defense Exportability Program	05	1,455	12,115			12,115	U
132	0605027D8Z	OUSD(C) IT Development Initiatives	05	9,219	9,590			9,590	U
133	0605070S	DOD Enterprise Systems Development and Demonstration	05	3,057	2,291			2,291	U
134	0605075D8Z	CMO Policy and Integration	05	2,100	1,618			1,618	U
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	20,384	23,114			23,114	U
136	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	17,233	6,368			6,368	U
137	0605141BR	Mission Assurance Risk Management System (MARMS)	05						U
138	0605210D8Z	Defense-Wide Electronic Procurement Capabilities	05	6,126	9,619			9,619	U
139	0605294D8Z	Trusted & Assured Microelectronics	05	94,617	175,032			175,032	U
140	0605772D8Z	Nuclear Command, Control, & Communications	05						U
141	0303140BL	Information Systems Security Program	05		425			425	U
142	0303141K	Global Combat Support System	05	1,936	1,578			1,578	U
143	0305304D8Z	DoD Enterprise Energy Information Management (EEIM)	05	2,391	4,373			4,373	U

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128	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	15,650				15,650	U
129	0605013BL	Information Technology Development	05	1,441				1,441	U
130	0605021SE	Homeland Personnel Security Initiative	05	7,287				7,287	U
131	0605022D8Z	Defense Exportability Program	05	12,928				12,928	U
132	0605027D8Z	OUSD(C) IT Development Initiatives	05	10,259				10,259	U
133	0605070S	DOD Enterprise Systems Development and Demonstration	05	1,377				1,377	U
134	0605075D8Z	CMO Policy and Integration	05	1,648				1,648	U
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	20,537				20,537	U
136	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	1,638				1,638	U
137	0605141BR	Mission Assurance Risk Management System (MARMS)	05	5,500				5,500	U
138	0605210D8Z	Defense-Wide Electronic Procurement Capabilities	05	8,279				8,279	U
139	0605294D8Z	Trusted & Assured Microelectronics	05	107,585				107,585	U
140	0605772D8Z	Nuclear Command, Control, & Communications	05	3,685				3,685	U
141	0303140BL	Information Systems Security Program	05						U
142	0303141K	Global Combat Support System	05						U
143	0305304D8Z	DoD Enterprise Energy Information Management (EEIM)	05	3,275				3,275	U

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144	0305310D8Z	CWMD Systems: System Development and Demonstration	05	16,385	12,854			12,854	U
		<b>System Development &amp; Demonstration</b>		<b>1,109,307</b>	<b>883,867</b>			<b>883,867</b>	
145	0603829J	Joint Capability Experimentation	06		13,000			13,000	U
146	0604774D8Z	Defense Readiness Reporting System (DRRS)	06	6,606	9,724			9,724	U
147	0604875D8Z	Joint Systems Architecture Development	06	3,929	9,593			9,593	U
148	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	06	295,067	390,692			390,692	U
149	0604942D8Z	Assessments and Evaluations	06	30,138	30,834			30,834	U
150	0605001E	Mission Support	06	67,850	68,498			68,498	U
151	0605100D8Z	Joint Mission Environment Test Capability (JMETC)	06	88,004	89,091			89,091	U
152	0605104D8Z	Technical Studies, Support and Analysis	06	21,281	18,079			18,079	U
153	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	48,097	62,805			62,805	U
154	0605128D8Z	Classified Program USD(P)	06	127,000	104,000			104,000	U
155	0605142D8Z	Systems Engineering	06	37,446	37,140			37,140	U
156	0605151D8Z	Studies and Analysis Support - OSD	06	3,423	4,759			4,759	U
157	0605161D8Z	Nuclear Matters-Physical Security	06	4,854	8,307			8,307	U
158	0605170D8Z	Support to Networks and Information Integration	06	11,042	9,441			9,441	U
159	0605200D8Z	General Support to USD (Intelligence)	06	8,139	20,200			20,200	U

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144	0305310D8Z	CWMD Systems: System Development and Demonstration	05	20,585				20,585	U
		<b>System Development &amp; Demonstration</b>		<b>603,808</b>				<b>603,808</b>	
145	0603829J	Joint Capability Experimentation	06	11,239				11,239	U
146	0604774D8Z	Defense Readiness Reporting System (DRRS)	06	9,793				9,793	U
147	0604875D8Z	Joint Systems Architecture Development	06	8,497				8,497	U
148	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	06	422,451				422,451	U
149	0604942D8Z	Assessments and Evaluations	06	18,379				18,379	U
150	0605001E	Mission Support	06	74,334				74,334	U
151	0605100D8Z	Joint Mission Environment Test Capability (JMETC)	06	79,046				79,046	U
152	0605104D8Z	Technical Studies, Support and Analysis	06						U
153	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	50,255				50,255	U
154	0605128D8Z	Classified Program USD(P)	06						U
155	0605142D8Z	Systems Engineering	06	49,376				49,376	U
156	0605151D8Z	Studies and Analysis Support - OSD	06	5,777				5,777	U
157	0605161D8Z	Nuclear Matters-Physical Security	06	16,552				16,552	U
158	0605170D8Z	Support to Networks and Information Integration	06	9,582				9,582	U
159	0605200D8Z	General Support to USD (Intelligence)	06	1,940				1,940	U

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160	0605384BP	Chemical and Biological Defense Program	06	104,187	110,363			110,363	U
161	0605502BP	Small Business Innovative Research - Chemical Biological Def	06	21,269					U
162	0605502BR	Small Business Innovation Research	06	11,315					U
163	0605502C	Small Business Innovation Research - MDA	06	91,161					U
164	0605502D8Z	Small Business Innovative Research	06	147,668					U
165	0605502E	Small Business Innovative Research	06	112,579					U
166	0605502S	Small Business Innovative Research	06	10,715	10,027			10,027	U
167	0605790D8Z	Small Business Innovation Research (SBIR)/ Small Business Technology Transfer	06	2,539	3,568			3,568	U
168	0605797D8Z	Maintaining Technology Advantage	06		20,936			20,936	U
169	0605798D8Z	Defense Technology Analysis	06	27,231	15,875			15,875	U
170	0605801KA	Defense Technical Information Center (DTIC)	06	56,853	57,716			57,716	U
171	0605803SE	R&D in Support of DoD Enlistment, Testing and Evaluation	06	24,005	29,448			29,448	U
172	0605804D8Z	Development Test and Evaluation	06	19,417	22,203			22,203	U
173	0605898E	Management HQ - R&D	06	13,663	13,208			13,208	U
174	0605998KA	Management HQ - Defense Technical Information Center (DTIC)	06	4,124	3,027			3,027	U
175	0606100D8Z	Budget and Program Assessments	06	5,544	8,017			8,017	U
176	0606225D8Z	ODNA Technology and Resource Analysis	06	1,028	3,194			3,194	U

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160	0605384BP	Chemical and Biological Defense Program	06	122,951				122,951	U
161	0605502BP	Small Business Innovative Research - Chemical Biological Def	06						U
162	0605502BR	Small Business Innovation Research	06						U
163	0605502C	Small Business Innovation Research - MDA	06						U
164	0605502D8Z	Small Business Innovative Research	06						U
165	0605502E	Small Business Innovative Research	06						U
166	0605502S	Small Business Innovative Research	06						U
167	0605790D8Z	Small Business Innovation Research (SBIR)/ Small Business Technology Transfer	06	3,582				3,582	U
168	0605797D8Z	Maintaining Technology Advantage	06	29,566				29,566	U
169	0605798D8Z	Defense Technology Analysis	06	29,059				29,059	U
170	0605801KA	Defense Technical Information Center (DTIC)	06	59,369				59,369	U
171	0605803SE	R&D in Support of DoD Enlistment, Testing and Evaluation	06	29,420				29,420	U
172	0605804D8Z	Development Test and Evaluation	06	27,198				27,198	U
173	0605898E	Management HQ - R&D	06	13,434				13,434	U
174	0605998KA	Management HQ - Defense Technical Information Center (DTIC)	06	2,837				2,837	U
175	0606100D8Z	Budget and Program Assessments	06	13,173				13,173	U
176	0606225D8Z	ODNA Technology and Resource Analysis	06	3,200				3,200	U

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177	0606589D8W	Defense Digital Service (DDS) Development Support	06	1,000	1,000			1,000	U
178	0606942C	Assessments and Evaluations Cyber Vulnerabilities	06	3,400					U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06	3,854					U
180	0203345D8Z	Defense Operations Security Initiative (DOSI)	06	9,892	8,037			8,037	U
181	0204571J	Joint Staff Analytical Support	06	16,768	9,216			9,216	U
182	0208045K	C4I Interoperability	06						U
185	0303140SE	Information Systems Security Program	06						U
186	0303166J	Support to Information Operations (IO) Capabilities	06	859	553			553	U
187	0303260D8Z	Defense Military Deception Program Office (DMDPO)	06	966	1,014			1,014	U
188	0305172K	Combined Advanced Applications	06	21,363	58,667			58,667	U
190	0305208K	Distributed Common Ground/Surface Systems	06						U
191	0305245D8Z	Intelligence Capabilities and Innovation Investments	06	188,876	15,871			15,871	U
192	0306310D8Z	CWMD Systems: RDT&E Management Support	06	1,195					U
193	0307588D8Z	Algorithmic Warfare Cross Functional Teams	06		221,235			221,235	U
194	0804768J	COCOM Exercise Engagement and Training Transformation (CE2T2) - non-MHA	06	43,600	40,073			40,073	U

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177	0606589D8W	Defense Digital Service (DDS) Development Support	06	999				999	U
178	0606942C	Assessments and Evaluations Cyber Vulnerabilities	06						U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06						U
180	0203345D8Z	Defense Operations Security Initiative (DOSI)	06	3,099				3,099	U
181	0204571J	Joint Staff Analytical Support	06	3,058				3,058	U
182	0208045K	C4I Interoperability	06	59,813				59,813	U
185	0303140SE	Information Systems Security Program	06	1,112				1,112	U
186	0303166J	Support to Information Operations (IO) Capabilities	06	545				545	U
187	0303260D8Z	Defense Military Deception Program Office (DMDPO)	06	1,036				1,036	U
188	0305172K	Combined Advanced Applications	06	30,824				30,824	U
190	0305208K	Distributed Common Ground/Surface Systems	06	3,048				3,048	U
191	0305245D8Z	Intelligence Capabilities and Innovation Investments	06						U
192	0306310D8Z	CWMD Systems: RDT&E Management Support	06						U
193	0307588D8Z	Algorithmic Warfare Cross Functional Teams	06						U
194	0804768J	COCOM Exercise Engagement and Training Transformation (CE2T2) - non-MHA	06	31,125				31,125	U

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								Total Enacted	S (Base+Emerg+ e OCO) c
195	0808709SE	Defense Equal Opportunity Management Institute (DEOMI)	06		100			100	U
196	0901598C	Management HQ - MDA	06	28,626	27,065			27,065	U
197	0903235K	Joint Service Provider (JSP)	06	4,884	3,090			3,090	U
198	0909999D8Z	Financing for Cancelled Account Adjustments	06	969					U
9999	9999999999	Classified Programs		47,104	51,471			51,471	U
		<b>Management Support</b>		<b>1,779,530</b>	<b>1,611,137</b>			<b>1,611,137</b>	
199	0604130V	Enterprise Security System (ESS)	07	9,395	7,945			7,945	U
200	0604532K	Joint Artificial Intelligence	07		183,834			183,834	U
201	0605127T	Regional International Outreach (RIO) and Partnership for Peace Information Mana	07	2,745	1,947			1,947	U
202	0605147T	Overseas Humanitarian Assistance Shared Information System (OHASIS)	07	304	310			310	U
203	0607210D8Z	Industrial Base Analysis and Sustainment Support	07		104,051			104,051	U
204	0607310D8Z	CWMD Systems: Operational Systems Development	07		12,734			12,734	U
205	0607327T	Global Theater Security Cooperation Management Information Systems (G-TSCMIS)	07	4,685	12,000			12,000	U
206	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	41,813	51,834			51,834	U
207	0208043J	Planning and Decision Aid System (PDAS)	07	3,037	4,537			4,537	U
208	0208045K	C4I Interoperability	07	61,208	64,122			64,122	U

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195	0808709SE	Defense Equal Opportunity Management Institute (DEOMI)	06	100				100	U
196	0901598C	Management HQ - MDA	06	26,902				26,902	U
197	0903235K	Joint Service Provider (JSP)	06	3,138				3,138	U
198	0909999D8Z	Financing for Cancelled Account Adjustments	06						U
9999	9999999999	Classified Programs		41,583				41,583	U
		<b>Management Support</b>		<b>1,297,392</b>				<b>1,297,392</b>	
199	0604130V	Enterprise Security System (ESS)	07	14,378				14,378	U
200	0604532K	Joint Artificial Intelligence	07	132,058				132,058	U
201	0605127T	Regional International Outreach (RIO) and Partnership for Peace Information Mana	07	1,986				1,986	U
202	0605147T	Overseas Humanitarian Assistance Shared Information System (OHASIS)	07	316				316	U
203	0607210D8Z	Industrial Base Analysis and Sustainment Support	07	9,151				9,151	U
204	0607310D8Z	CWMD Systems: Operational Systems Development	07	19,082				19,082	U
205	0607327T	Global Theater Security Cooperation Management Information Systems (G-TSCMIS)	07	3,992				3,992	U
206	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	39,530				39,530	U
207	0208043J	Planning and Decision Aid System (PDAS)	07	3,039				3,039	U
208	0208045K	C4I Interoperability	07						U

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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)
212	0302019K	Defense Info Infrastructure Engineering and Integration	07	13,540	10,798			10,798	U
213	0303126K	Long-Haul Communications - DCS	07	12,572	11,166			11,166	U
214	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	17,579	17,383			17,383	U
215	0303136G	Key Management Infrastructure (KMI)	07	31,737	54,516			54,516	U
216	0303140D8Z	Information Systems Security Program	07	17,899	67,631			67,631	U
217	0303140G	Information Systems Security Program	07	235,082	327,198			327,198	U
218	0303140K	Information Systems Security Program	07	42,262	40,398			40,398	U
219	0303150K	Global Command and Control System	07	44,974	17,218			17,218	U
220	0303153K	Defense Spectrum Organization	07	5,748	19,528			19,528	U
221	0303167K	Pre-Auction Spectrum Relocation Fund	07	1,258					U
222	0303170K	Net-Centric Enterprise Services (NCES)	07	1,750					U
223	0303228K	Joint Regional Security Stacks (JRSS)	07	7,657	16,269			16,269	U
224	0303267K	Auctioned Spectrum Relocation Fund	07	24,600					U
225	0303430K	Federal Investigative Services Information Technology	07	59,870	44,001			44,001	U
226	0303467K	SENSR Spectrum Pipeline SRF	07	230					U
231	0305128V	Security and Investigative Activities	07		2,400			2,400	U

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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
212	0302019K	Defense Info Infrastructure Engineering and Integration	07	16,324				16,324	U
213	0303126K	Long-Haul Communications - DCS	07	11,884				11,884	U
214	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	5,560				5,560	U
215	0303136G	Key Management Infrastructure (KMI)	07	73,356				73,356	U
216	0303140D8Z	Information Systems Security Program	07	46,577				46,577	U
217	0303140G	Information Systems Security Program	07	356,713				356,713	U
218	0303140K	Information Systems Security Program	07	8,922				8,922	U
219	0303150K	Global Command and Control System	07	3,695				3,695	U
220	0303153K	Defense Spectrum Organization	07	20,113				20,113	U
221	0303167K	Pre-Auction Spectrum Relocation Fund	07						U
222	0303170K	Net-Centric Enterprise Services (NCES)	07						U
223	0303228K	Joint Regional Security Stacks (JRSS)	07	9,728				9,728	U
224	0303267K	Auctioned Spectrum Relocation Fund	07						U
225	0303430K	Federal Investigative Services Information Technology	07						U
226	0303467K	SENSR Spectrum Pipeline SRF	07						U
231	0305128V	Security and Investigative Activities	07	5,700				5,700	U

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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
235	0305186D8Z	Policy R&D Programs	07		6,301			6,301	U
236	0305199D8Z	Net Centricity	07	4,071	21,384			21,384	U
238	0305208BB	Distributed Common Ground/Surface Systems	07	6,286	6,359			6,359	U
241	0305208K	Distributed Common Ground/Surface Systems	07	2,848	2,981			2,981	U
244	0305327V	Insider Threat	07	19,754	1,964			1,964	U
245	0305387D8Z	Homeland Defense Technology Transfer Program	07		2,221			2,221	U
252	0708012K	Logistics Support Activities	07	1,317	1,361			1,361	U
253	0708012S	Pacific Disaster Centers	07	1,705	1,705			1,705	U
254	0708047S	Defense Property Accountability System	07	1,739	3,545			3,545	U
255	0904903D	Defense-Wide Resources	07		3,000			3,000	U
256	1105219BB	MQ-9 UAV	07	17,745	20,697			20,697	U
257	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	18,445					U
258	1160403BB	Aviation Systems	07	168,026	267,695			267,695	U
259	1160405BB	Intelligence Systems Development	07	10,625	15,484			15,484	U
260	1160408BB	Operational Enhancements	07	98,395	159,922		726	160,648	U
261	1160431BB	Warrior Systems	07	74,250	75,514		6,000	81,514	U
262	1160432BB	Special Programs	07	2,885	21,005			21,005	U
263	1160434BB	Unmanned ISR	07	44,970	37,377		5,000	42,377	U

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Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
235	0305186D8Z	Policy R&D Programs	07	7,144				7,144	U
236	0305199D8Z	Net Centricity	07	21,793				21,793	U
238	0305208BB	Distributed Common Ground/Surface Systems	07	6,066				6,066	U
241	0305208K	Distributed Common Ground/Surface Systems	07						U
244	0305327V	Insider Threat	07						U
245	0305387D8Z	Homeland Defense Technology Transfer Program	07	2,190				2,190	U
252	0708012K	Logistics Support Activities	07	1,654				1,654	U
253	0708012S	Pacific Disaster Centers	07	1,785				1,785	U
254	0708047S	Defense Property Accountability System	07	7,301				7,301	U
255	0904903D	Defense-Wide Resources	07						U
256	1105219BB	MQ-9 UAV	07	21,265				21,265	U
257	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07						U
258	1160403BB	Aviation Systems	07	230,812				230,812	U
259	1160405BB	Intelligence Systems Development	07	19,558				19,558	U
260	1160408BB	Operational Enhancements	07	136,041		1,186	1,186	137,227	U
261	1160431BB	Warrior Systems	07	59,511		5,796	5,796	65,307	U
262	1160432BB	Special Programs	07	10,500				10,500	U
263	1160434BB	Unmanned ISR	07	19,154		5,000	5,000	24,154	U

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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
264	1160480BB	SOF Tactical Vehicles	07	1,806	11,150			11,150	U
265	1160483BB	Maritime Systems	07	40,600	72,626			72,626	U
266	1160489BB	Global Video Surveillance Activities	07	4,780	5,363			5,363	U
267	1160490BB	Operational Enhancements Intelligence	07	12,176	9,962			9,962	U
268	1203610K	Teleport Program	07	706	5,542			5,542	U
9999	9999999999	Classified Programs		4,106,487	4,440,074		192,509	4,632,583	U
		<b>Operational Systems Development</b>		<b>5,279,561</b>	<b>6,265,052</b>		<b>204,235</b>	<b>6,469,287</b>	
269	0608197V	National Background Investigation Services - Software Pilot Program	08						U
270	0608648D8Z	Acquisition Visibility - Software Pilot Program	08						U
271	0303150K	Global Command and Control System	08						U
272	0308588D8Z	Algorithmic Warfare Cross Functional Teams - Software Pilot Program	08						U
		<b>Software And Digital Technology Pilot Progr</b>							
<b>Total Research, Development, Test &amp; Eval, DW</b>				<b>24,300,844</b>	<b>25,938,027</b>		<b>394,260</b>	<b>26,332,287</b>	

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Appropriation: 0400D Research, Development, Test &amp; Eval, DW

Line	Program Element No 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)	S e c
264	1160480BB	SOF Tactical Vehicles	07	9,263				9,263	U
265	1160483BB	Maritime Systems	07	59,882				59,882	U
266	1160489BB	Global Video Surveillance Activities	07	4,606				4,606	U
267	1160490BB	Operational Enhancements Intelligence	07	11,612				11,612	U
268	1203610K	Teleport Program	07	3,239				3,239	U
9999	9999999999	Classified Programs		4,746,466		24,057	24,057	4,770,523	U
		<b>Operational Systems Development</b>		<b>6,161,946</b>		<b>36,039</b>	<b>36,039</b>	<b>6,197,985</b>	
269	0608197V	National Background Investigation Services - Software Pilot Program	08	121,676				121,676	U
270	0608648D8Z	Acquisition Visibility - Software Pilot Program	08	16,848				16,848	U
271	0303150K	Global Command and Control System	08	86,750				86,750	U
272	0308588D8Z	Algorithmic Warfare Cross Functional Teams - Software Pilot Program	08	250,107				250,107	U
		<b>Software And Digital Technology Pilot Progr</b>		<b>475,381</b>				<b>475,381</b>	
<b>Total Research, Development, Test &amp; Eval, DW</b>				<b>24,280,891</b>		<b>82,818</b>	<b>82,818</b>	<b>24,363,709</b>	

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<u>Summary Recap of Budget Activities</u>	<u>FY 2019 (Base + OCO)</u>	<u>FY 2020 Base Enacted</u>	<u>FY 2020 Emergency</u>	<u>FY 2020 OCO Enacted</u>	<u>FY 2020 Total Enacted (Base+Emerg+ OCO)</u>
Management Support	377,001	227,700			227,700
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>377,001</b>	<b>227,700</b>			<b>227,700</b>
 <u>Summary Recap of FYDP Programs</u>					
Research and Development	377,001	227,700			227,700
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>377,001</b>	<b>227,700</b>			<b>227,700</b>

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	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)
<u>Summary Recap of Budget Activities</u>					
Management Support	210,090				210,090
Total Research, Development, Test & Evaluation	210,090				210,090
<u>Summary Recap of FYDP Programs</u>					
Research and Development	210,090				210,090
Total Research, Development, Test & Evaluation	210,090				210,090

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Appropriation: 0460D Operational Test & Eval, Defense

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	c
1	06051180TE	Operational Test and Evaluation	06	85,685	93,291			93,291	U
2	06051310TE	Live Fire Test and Evaluation	06	64,332	69,172			69,172	U
3	06058140TE	Operational Test Activities and Analyses	06	226,984	65,237			65,237	U
		<b>Management Support</b>		<b>377,001</b>	<b>227,700</b>			<b>227,700</b>	
		<b>Total Operational Test &amp; Eval, Defense</b>		<b>377,001</b>	<b>227,700</b>			<b>227,700</b>	

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Appropriation: 0460D Operational Test & Eval, Defense

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	06051180	TE Operational Test and Evaluation	06	100,021				100,021	U
2	06051310	TE Live Fire Test and Evaluation	06	70,933				70,933	U
3	06058140	TE Operational Test Activities and Analyses	06	39,136				39,136	U
		Management Support		210,090				210,090	
Total Operational Test & Eval, Defense				210,090				210,090	

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Appropriation: 0400D Research, Development, Test &amp; Eval, DW

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	c
								OCO)	
7	0601384BP	Chemical and Biological Defense Program	01	40,901	48,238			48,238	U
<b>Basic Research</b>				<b>40,901</b>	<b>48,238</b>			<b>48,238</b>	
16	0602384BP	Chemical and Biological Defense Program	02	189,614	215,057			215,057	U
<b>Applied Research</b>				<b>189,614</b>	<b>215,057</b>			<b>215,057</b>	
44	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	140,740	175,486			175,486	U
<b>Advanced Technology Development</b>				<b>140,740</b>	<b>175,486</b>			<b>175,486</b>	
78	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	115,452	80,162			80,162	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>115,452</b>	<b>80,162</b>			<b>80,162</b>	
126	0604384BP	Chemical and Biological Defense Program - EMD	05	344,745	385,047			385,047	U
<b>System Development &amp; Demonstration</b>				<b>344,745</b>	<b>385,047</b>			<b>385,047</b>	
160	0605384BP	Chemical and Biological Defense Program	06	104,187	110,363			110,363	U
161	0605502BP	Small Business Innovative Research - Chemical Biological Def	06	21,269					U
<b>Management Support</b>				<b>125,456</b>	<b>110,363</b>			<b>110,363</b>	
206	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	41,813	51,834			51,834	U
<b>Operational Systems Development</b>				<b>41,813</b>	<b>51,834</b>			<b>51,834</b>	
<b>Total Chemical and Biological Defense Program</b>				<b>998,721</b>	<b>1,066,187</b>			<b>1,066,187</b>	

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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
7	0601384BP	Chemical and Biological Defense Program	01	45,300				45,300	U
		<b>Basic Research</b>		<b>45,300</b>				<b>45,300</b>	
16	0602384BP	Chemical and Biological Defense Program	02	201,807				201,807	U
		<b>Applied Research</b>		<b>201,807</b>				<b>201,807</b>	
44	0603384BP	Chemical and Biological Defense Program - Advanced Development	03	188,001				188,001	U
		<b>Advanced Technology Development</b>		<b>188,001</b>				<b>188,001</b>	
78	0603884BP	Chemical and Biological Defense Program - Dem/Val	04	76,167				76,167	U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>76,167</b>				<b>76,167</b>	
126	0604384BP	Chemical and Biological Defense Program - EMD	05	319,976				319,976	U
		<b>System Development &amp; Demonstration</b>		<b>319,976</b>				<b>319,976</b>	
160	0605384BP	Chemical and Biological Defense Program	06	122,951				122,951	U
161	0605502BP	Small Business Innovative Research - Chemical Biological Def	06						U
		<b>Management Support</b>		<b>122,951</b>				<b>122,951</b>	
206	0607384BP	Chemical and Biological Defense (Operational Systems Development)	07	39,530				39,530	U
		<b>Operational Systems Development</b>		<b>39,530</b>				<b>39,530</b>	
<b>Total Chemical and Biological Defense Program</b>				<b>993,732</b>				<b>993,732</b>	

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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	c
2	0601101E	Defense Research Sciences	01	423,895	432,284			432,284	U
4	0601117E	Basic Operational Medical Research Science	01	49,692	54,122			54,122	U
<b>Basic Research</b>				<b>473,587</b>	<b>486,406</b>			<b>486,406</b>	
9	0602115E	Biomedical Technology	02	94,423	92,771			92,771	U
14	0602303E	Information & Communications Technology	02	401,453	428,556			428,556	U
15	0602383E	Biological Warfare Defense	02	31,951	34,588			34,588	U
18	0602702E	Tactical Technology	02	295,118	313,002			313,002	U
19	0602715E	Materials and Biological Technology	02	192,774	214,976			214,976	U
20	0602716E	Electronics Technology	02	331,905	317,192			317,192	U
<b>Applied Research</b>				<b>1,347,624</b>	<b>1,401,085</b>			<b>1,401,085</b>	
34	0603286E	Advanced Aerospace Systems	03	287,907	279,741			279,741	U
35	0603287E	Space Programs and Technology	03	256,181	190,306			190,306	U
56	0603739E	Advanced Electronics Technologies	03	100,042	123,616			123,616	U
57	0603760E	Command, Control and Communications Systems	03	178,074	229,134			229,134	U
58	0603766E	Network-Centric Warfare Technology	03	413,948	507,424			507,424	U
59	0603767E	Sensor Technology	03	174,094	158,903			158,903	U
<b>Advanced Technology Development</b>				<b>1,410,246</b>	<b>1,489,124</b>			<b>1,489,124</b>	
150	0605001E	Mission Support	06	67,850	68,498			68,498	U
165	0605502E	Small Business Innovative Research	06	112,579					U

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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
2	0601101E	Defense Research Sciences	01	479,958				479,958	U
4	0601117E	Basic Operational Medical Research Science	01	53,730				53,730	U
<b>Basic Research</b>				<b>533,688</b>				<b>533,688</b>	
9	0602115E	Biomedical Technology	02	107,568				107,568	U
14	0602303E	Information & Communications Technology	02	435,920				435,920	U
15	0602383E	Biological Warfare Defense	02	26,950				26,950	U
18	0602702E	Tactical Technology	02	233,271				233,271	U
19	0602715E	Materials and Biological Technology	02	250,107				250,107	U
20	0602716E	Electronics Technology	02	322,693				322,693	U
<b>Applied Research</b>				<b>1,376,509</b>				<b>1,376,509</b>	
34	0603286E	Advanced Aerospace Systems	03	230,978				230,978	U
35	0603287E	Space Programs and Technology	03	158,439				158,439	U
56	0603739E	Advanced Electronics Technologies	03	95,864				95,864	U
57	0603760E	Command, Control and Communications Systems	03	221,724				221,724	U
58	0603766E	Network-Centric Warfare Technology	03	661,158				661,158	U
59	0603767E	Sensor Technology	03	200,220				200,220	U
<b>Advanced Technology Development</b>				<b>1,568,383</b>				<b>1,568,383</b>	
150	0605001E	Mission Support	06	74,334				74,334	U
165	0605502E	Small Business Innovative Research	06						U

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Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
173	0605898E	Management HQ - R&D	06	13,663	13,208			13,208 U
		Management Support		194,092	81,706			81,706
<b>Total Defense Advanced Research Projects Agency</b>				<b>3,425,549</b>	<b>3,458,321</b>			<b>3,458,321</b>

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 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

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
173	0605898E	Management HQ - R&D	06	13,434				13,434	U
		Management Support		87,768				87,768	
<b>Total Defense Advanced Research Projects Agency</b>				<b>3,566,348</b>				<b>3,566,348</b>	

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Defense Contract Audit Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
118	0300206R	Enterprise Information Technology Systems	04	2,600	1,600			1,600 U
		Advanced Component Development & Prototypes		2,600	1,600			1,600
Total Defense Contract Audit Agency				2,600	1,600			1,600

Defense Contract Audit Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

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	0300206R	Enterprise Information Technology Systems	04	2,198				2,198	U
		Advanced Component Development & Prototypes		2,198				2,198	
Total Defense Contract Audit Agency				2,198				2,198	

Defense Contract Management Agency  
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 Total Obligational Authority  
 (Dollars in Thousands)

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Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
129	0605013BL	Information Technology Development	05	2,090	3,070			3,070 U
141	0303140BL	Information Systems Security Program	05		425			425 U
		<b>System Development &amp; Demonstration</b>		----- 2,090	----- 3,495	-----	-----	----- 3,495
		<b>Total Defense Contract Management Agency</b>		----- 2,090	----- 3,495	-----	-----	----- 3,495

Defense Contract Management Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

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
129	0605013BL	Information Technology Development	05	1,441				1,441	U
141	0303140BL	Information Systems Security Program	05						U
System Development & Demonstration				1,441				1,441	
Total Defense Contract Management Agency				1,441				1,441	



Defense Counterintelligence & Security Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

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
199	0604130V	Enterprise Security System (ESS)	07	9,395	7,945			7,945	U
231	0305128V	Security and Investigative Activities	07		2,400			2,400	U
244	0305327V	Insider Threat	07	19,754	1,964			1,964	U
		<b>Operational Systems Development</b>		<b>29,149</b>	<b>12,309</b>			<b>12,309</b>	
269	0608197V	National Background Investigation Services - Software Pilot Program	08						U
		<b>Software And Digital Technology Pilot Programs</b>							
<b>Total Defense Counterintelligence &amp; Security Agency</b>				<b>29,149</b>	<b>12,309</b>			<b>12,309</b>	

Defense Counterintelligence & Security Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
199	0604130V	Enterprise Security System (ESS)	07	14,378				14,378	U
231	0305128V	Security and Investigative Activities	07	5,700				5,700	U
244	0305327V	Insider Threat	07						U
	<b>Operational Systems Development</b>			<b>20,078</b>				<b>20,078</b>	
269	0608197V	National Background Investigation Services - Software Pilot Program	08	121,676				121,676	U
	<b>Software And Digital Technology Pilot Programs</b>			<b>121,676</b>				<b>121,676</b>	
<b>Total Defense Counterintelligence &amp; Security Agency</b>				<b>141,754</b>				<b>141,754</b>	

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

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Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Element Number	Program Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
255	0904903D	Defense-Wide Resources	07		3,000			3,000 U
		Operational Systems Development			3,000			3,000
<b>Total Defense-Wide</b>					<b>3,000</b>			<b>3,000</b>

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

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Appropriation: 0400D Research, Development, Test & Eval, DW

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)	See
255	0904903D	Defense-Wide Resources	07	-----	-----	-----	-----	-----	U
		Operational Systems Development							
<b>Total Defense-Wide</b>				-----	-----	-----	-----	-----	

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Defense Human Resources Activity  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

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Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Element Number	Program Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
130	0605021SE	Homeland Personnel Security Initiative	05	285	7,295			7,295 U
		<b>System Development &amp; Demonstration</b>		<b>285</b>	<b>7,295</b>			<b>7,295</b>
171	0605803SE	R&D in Support of DoD Enlistment, Testing and Evaluation	06	24,005	29,448			29,448 U
185	0303140SE	Information Systems Security Program	06					U
195	0808709SE	Defense Equal Opportunity Management Institute (DEOMI)	06		100			100 U
		<b>Management Support</b>		<b>24,005</b>	<b>29,548</b>			<b>29,548</b>
<b>Total Defense Human Resources Activity</b>				<b>24,290</b>	<b>36,843</b>			<b>36,843</b>

Defense Human Resources Activity  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

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Appropriation: 0400D Research, Development, Test & Eval, DW

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
130	0605021SE	Homeland Personnel Security Initiative	05	7,287				7,287	U
	<b>System Development &amp; Demonstration</b>			<b>7,287</b>				<b>7,287</b>	
171	0605803SE	R&D in Support of DoD Enlistment, Testing and Evaluation	06	29,420				29,420	U
185	0303140SE	Information Systems Security Program	06	1,112				1,112	U
195	0808709SE	Defense Equal Opportunity Management Institute (DEOMI)	06	100				100	U
	<b>Management Support</b>			<b>30,632</b>				<b>30,632</b>	
<b>Total Defense Human Resources Activity</b>				<b>37,919</b>				<b>37,919</b>	

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Defense Information Systems Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	U
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	
142	0303141K	Global Combat Support System	05	1,936	1,578			1,578	U
	<b>System Development &amp; Demonstration</b>			<b>1,936</b>	<b>1,578</b>			<b>1,578</b>	
182	0208045K	C4I Interoperability	06						U
188	0305172K	Combined Advanced Applications	06	21,363	58,667			58,667	U
190	0305208K	Distributed Common Ground/Surface Systems	06						U
197	0903235K	Joint Service Provider (JSP)	06	4,884	3,090			3,090	U
	<b>Management Support</b>			<b>26,247</b>	<b>61,757</b>			<b>61,757</b>	
200	0604532K	Joint Artificial Intelligence	07		183,834			183,834	U
208	0208045K	C4I Interoperability	07	61,208	64,122			64,122	U
212	0302019K	Defense Info Infrastructure Engineering and Integration	07	13,540	10,798			10,798	U
213	0303126K	Long-Haul Communications - DCS	07	12,572	11,166			11,166	U
214	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	17,579	17,383			17,383	U
218	0303140K	Information Systems Security Program	07	42,262	40,398			40,398	U
219	0303150K	Global Command and Control System	07	44,974	17,218			17,218	U
220	0303153K	Defense Spectrum Organization	07	5,748	19,528			19,528	U
221	0303167K	Pre-Auction Spectrum Relocation Fund	07	1,258					U
222	0303170K	Net-Centric Enterprise Services (NCES)	07	1,750					U
223	0303228K	Joint Regional Security Stacks (JRSS)	07	7,657	16,269			16,269	U

Defense Information Systems Agency  
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 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
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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
142	0303141K	Global Combat Support System	05	-----	-----	-----	-----	-----	U
	<b>System Development &amp; Demonstration</b>								
182	0208045K	C4I Interoperability	06	59,813				59,813	U
188	0305172K	Combined Advanced Applications	06	30,824				30,824	U
190	0305208K	Distributed Common Ground/Surface Systems	06	3,048				3,048	U
197	0903235K	Joint Service Provider (JSP)	06	3,138				3,138	U
	<b>Management Support</b>			<b>96,823</b>				<b>96,823</b>	
200	0604532K	Joint Artificial Intelligence	07	132,058				132,058	U
208	0208045K	C4I Interoperability	07						U
212	0302019K	Defense Info Infrastructure Engineering and Integration	07	16,324				16,324	U
213	0303126K	Long-Haul Communications - DCS	07	11,884				11,884	U
214	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	5,560				5,560	U
218	0303140K	Information Systems Security Program	07	8,922				8,922	U
219	0303150K	Global Command and Control System	07	3,695				3,695	U
220	0303153K	Defense Spectrum Organization	07	20,113				20,113	U
221	0303167K	Pre-Auction Spectrum Relocation Fund	07						U
222	0303170K	Net-Centric Enterprise Services (NCES)	07						U
223	0303228K	Joint Regional Security Stacks (JRSS)	07	9,728				9,728	U



Defense Information Systems Agency  
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 Total Obligational Authority  
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Appropriation: 0400D Research, Development, Test & Eval, DW

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
224	0303267K	Auctioned Spectrum Relocation Fund	07	24,600					U
225	0303430K	Federal Investigative Services Information Technology	07	59,870	44,001			44,001	U
226	0303467K	SENSR Spectrum Pipeline SRF	07	230					U
241	0305208K	Distributed Common Ground/Surface Systems	07	2,848	2,981			2,981	U
252	0708012K	Logistics Support Activities	07	1,317	1,361			1,361	U
268	1203610K	Teleport Program	07	706	5,542			5,542	U
<b>Operational Systems Development</b>				<b>298,119</b>	<b>434,601</b>			<b>434,601</b>	
271	0303150K	Global Command and Control System	08						U
<b>Software And Digital Technology Pilot Programs</b>									
<b>Total Defense Information Systems Agency</b>				<b>326,302</b>	<b>497,936</b>			<b>497,936</b>	

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Defense Information Systems Agency  
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 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

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Appropriation: 0400D Research, Development, Test & Eval, DW

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)	See
224	0303267K	Auctioned Spectrum Relocation Fund	07						U
225	0303430K	Federal Investigative Services Information Technology	07						U
226	0303467K	SENSR Spectrum Pipeline SRF	07						U
241	0305208K	Distributed Common Ground/Surface Systems	07						U
252	0708012K	Logistics Support Activities	07	1,654				1,654	U
268	1203610K	Teleport Program	07	3,239				3,239	U
<b>Operational Systems Development</b>				<b>213,177</b>				<b>213,177</b>	
271	0303150K	Global Command and Control System	08	86,750				86,750	U
<b>Software And Digital Technology Pilot Programs</b>				<b>86,750</b>				<b>86,750</b>	
<b>Total Defense Information Systems Agency</b>				<b>396,750</b>				<b>396,750</b>	

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

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Appropriation: 0400D Research, Development, Test &amp; Eval, DW

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
50	0603680S	Manufacturing Technology Program	03	62,396	51,002			51,002	U
52	0603712S	Generic Logistics R&D Technology Demonstrations	03	18,127	16,620			16,620	U
54	0603720S	Microelectronics Technology Development and Support	03	192,926	200,530			200,530	U
<b>Advanced Technology Development</b>				<b>273,449</b>	<b>268,152</b>			<b>268,152</b>	
133	0605070S	DOD Enterprise Systems Development and Demonstration	05	3,057	2,291			2,291	U
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	20,384	23,114			23,114	U
136	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	17,233	6,368			6,368	U
<b>System Development &amp; Demonstration</b>				<b>40,674</b>	<b>31,773</b>			<b>31,773</b>	
166	0605502S	Small Business Innovative Research	06	10,715	10,027			10,027	U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06	3,854					U
<b>Management Support</b>				<b>14,569</b>	<b>10,027</b>			<b>10,027</b>	
253	0708012S	Pacific Disaster Centers	07	1,705	1,705			1,705	U
254	0708047S	Defense Property Accountability System	07	1,739	3,545			3,545	U
<b>Operational Systems Development</b>				<b>3,444</b>	<b>5,250</b>			<b>5,250</b>	
<b>Total Defense Logistics Agency</b>				<b>332,136</b>	<b>315,202</b>			<b>315,202</b>	

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

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Appropriation: 0400D Research, Development, Test & Eval, DW

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
50	0603680S	Manufacturing Technology Program	03	40,025				40,025	U
52	0603712S	Generic Logistics R&D Technology Demonstrations	03	10,235				10,235	U
54	0603720S	Microelectronics Technology Development and Support	03	124,049				124,049	U
<b>Advanced Technology Development</b>				<b>174,309</b>				<b>174,309</b>	
133	0605070S	DOD Enterprise Systems Development and Demonstration	05	1,377				1,377	U
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05	20,537				20,537	U
136	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	1,638				1,638	U
<b>System Development &amp; Demonstration</b>				<b>23,552</b>				<b>23,552</b>	
166	0605502S	Small Business Innovative Research	06						U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06						U
<b>Management Support</b>									
253	0708012S	Pacific Disaster Centers	07	1,785				1,785	U
254	0708047S	Defense Property Accountability System	07	7,301				7,301	U
<b>Operational Systems Development</b>				<b>9,086</b>				<b>9,086</b>	
<b>Total Defense Logistics Agency</b>				<b>206,947</b>				<b>206,947</b>	

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Defense Security Cooperative Agency  
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 Total Obligational Authority  
 (Dollars in Thousands)

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Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
201	0605127T	Regional International Outreach (RIO) and Partnership for Peace Information Mana	07	2,745	1,947			1,947 U
202	0605147T	Overseas Humanitarian Assistance Shared Information System (OHASIS)	07	304	310			310 U
205	0607327T	Global Theater Security Cooperation Management Information Systems (G-TSCMIS)	07	4,685	12,000			12,000 U
<b>Operational Systems Development</b>				<b>7,734</b>	<b>14,257</b>			<b>14,257</b>
<b>Total Defense Security Cooperative Agency</b>				<b>7,734</b>	<b>14,257</b>			<b>14,257</b>

Defense Security Cooperative Agency  
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Line No	Program Element Number	Item	Act	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	Se
201	0605127T	Regional International Outreach (RIO) and Partnership for Peace Information Mana	07	1,986				1,986	U
202	0605147T	Overseas Humanitarian Assistance Shared Information System (OHASIS)	07	316				316	U
205	0607327T	Global Theater Security Cooperation Management Information Systems (G-TSCMIS)	07	3,992				3,992	U
<b>Operational Systems Development</b>				<b>6,294</b>				<b>6,294</b>	
<b>Total Defense Security Cooperative Agency</b>				<b>6,294</b>				<b>6,294</b>	

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Defense Technical Information Center  
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 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
170	0605801KA	Defense Technical Information Center (DTIC)	06	56,853	57,716			57,716 U
174	0605998KA	Management HQ - Defense Technical Information Center (DTIC)	06	4,124	3,027			3,027 U
		Management Support		60,977	60,743			60,743
		Total Defense Technical Information Center		60,977	60,743			60,743

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Defense Technical Information Center  
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 Total Obligational Authority  
 (Dollars in Thousands)

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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
170	0605801KA	Defense Technical Information Center (DTIC)	06	59,369				59,369	U
174	0605998KA	Management HQ - Defense Technical Information Center (DTIC)	06	2,837				2,837	U
		<b>Management Support</b>		<b>62,206</b>				<b>62,206</b>	
		<b>Total Defense Technical Information Center</b>		<b>62,206</b>				<b>62,206</b>	



Defense Threat Reduction Agency  
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 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test &amp; Eval, DW

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	0601000BR	DTRA Basic Research	01	36,148	26,000			26,000	U
<b>Basic Research</b>				<b>36,148</b>	<b>26,000</b>			<b>26,000</b>	
10	0602134BR	Counter Improvised-Threat Advanced Studies	02				1,677	1,677	U
21	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	150,040	174,096			174,096	U
<b>Applied Research</b>				<b>150,040</b>	<b>174,096</b>		<b>1,677</b>	<b>175,773</b>	
28	0603134BR	Counter Improvised-Threat Simulation	03	13,648			49,528	49,528	U
29	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	275,246	330,065			330,065	U
<b>Advanced Technology Development</b>				<b>288,894</b>	<b>330,065</b>		<b>49,528</b>	<b>379,593</b>	
97	0604134BR	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	169,638			113,590	113,590	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>169,638</b>			<b>113,590</b>	<b>113,590</b>	
128	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	7,219	13,100			13,100	U
137	0605141BR	Mission Assurance Risk Management System (MARMS)	05						U
<b>System Development &amp; Demonstration</b>				<b>7,219</b>	<b>13,100</b>			<b>13,100</b>	
162	0605502BR	Small Business Innovation Research	06	11,315					U
<b>Management Support</b>				<b>11,315</b>					
<b>Total Defense Threat Reduction Agency</b>				<b>663,254</b>	<b>543,261</b>		<b>164,795</b>	<b>708,056</b>	

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1	0601000BR	DTRA Basic Research	01	14,617				14,617	U
	<b>Basic Research</b>			<b>14,617</b>				<b>14,617</b>	
10	0602134BR	Counter Improvised-Threat Advanced Studies	02			3,699	3,699	3,699	U
21	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	174,571				174,571	U
	<b>Applied Research</b>			<b>174,571</b>		<b>3,699</b>	<b>3,699</b>	<b>178,270</b>	
28	0603134BR	Counter Improvised-Threat Simulation	03			3,861	3,861	3,861	U
29	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	366,659				366,659	U
	<b>Advanced Technology Development</b>			<b>366,659</b>		<b>3,861</b>	<b>3,861</b>	<b>370,520</b>	
97	0604134BR	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04			19,931	19,931	19,931	U
	<b>Advanced Component Development &amp; Prototypes</b>					<b>19,931</b>	<b>19,931</b>	<b>19,931</b>	
128	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	15,650				15,650	U
137	0605141BR	Mission Assurance Risk Management System (MARMS)	05	5,500				5,500	U
	<b>System Development &amp; Demonstration</b>			<b>21,150</b>				<b>21,150</b>	
162	0605502BR	Small Business Innovation Research	06						U
	<b>Management Support</b>								
<b>Total Defense Threat Reduction Agency</b>				<b>576,997</b>		<b>27,491</b>	<b>27,491</b>	<b>604,488</b>	

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted			
30	0603176C	Advanced Concepts and Performance Assessment	03	12,720	46,201				46,201	U
31	0603178C	Weapons Technology	03	13,400						U
32	0603180C	Advanced Research	03	42,100	27,674				27,674	U
39	0603294C	Common Kill Vehicle Technology	03	55,549	13,600				13,600	U
<b>Advanced Technology Development</b>				<b>123,769</b>	<b>87,475</b>				<b>87,475</b>	
76	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	383,369	306,761				306,761	U
77	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	790,316	1,303,716				1,303,716	U
79	0603884C	Ballistic Missile Defense Sensors	04	382,759	352,288				352,288	U
80	0603890C	BMD Enabling Programs	04	614,855	634,449				634,449	U
81	0603891C	Special Programs - MDA	04	418,722	512,098				512,098	U
82	0603892C	AEGIS BMD	04	724,731	737,269				737,269	U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	500,965	549,756				549,756	U
84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	48,401	51,532				51,532	U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	51,689	56,161				56,161	U
86	0603906C	Regarding Trench	04	16,512	22,424				22,424	U
87	0603907C	Sea Based X-Band Radar (SBX)	04	125,900	128,156				128,156	U
88	0603913C	Israeli Cooperative Programs	04	300,000	300,000				300,000	U
89	0603914C	Ballistic Missile Defense Test	04	510,292	399,738				399,738	U

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30	0603176C	Advanced Concepts and Performance Assessment	03	14,910				14,910	U
31	0603178C	Weapons Technology	03						U
32	0603180C	Advanced Research	03	18,687				18,687	U
39	0603294C	Common Kill Vehicle Technology	03	11,058				11,058	U
<b>Advanced Technology Development</b>				<b>44,655</b>				<b>44,655</b>	
76	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	412,627				412,627	U
77	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	1,004,305				1,004,305	U
79	0603884C	Ballistic Missile Defense Sensors	04	281,957				281,957	U
80	0603890C	BMD Enabling Programs	04	599,380				599,380	U
81	0603891C	Special Programs - MDA	04	420,216				420,216	U
82	0603892C	AEGIS BMD	04	814,936				814,936	U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	593,353				593,353	U
84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	49,560				49,560	U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	55,356				55,356	U
86	0603906C	Regarding Trench	04	11,863				11,863	U
87	0603907C	Sea Based X-Band Radar (SBX)	04	118,318				118,318	U
88	0603913C	Israeli Cooperative Programs	04	300,000				300,000	U
89	0603914C	Ballistic Missile Defense Test	04	378,302				378,302	U

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								(Base+Emerg+ e	c
90	0603915C	Ballistic Missile Defense Targets	04	561,349	542,939			542,939	U
95	0604115C	Technology Maturation Initiatives	04	312,074	264,520			264,520	U
98	0604181C	Hypersonic Defense	04	132,612	390,204			390,204	U
105	0604672C	Homeland Defense Radar - Hawaii (HDR-H)	04	70,735	188,480			188,480	U
106	0604673C	Pacific Discriminating Radar	04	14,453	6,711			6,711	U
110	0604873C	Long Range Discrimination Radar (LRDR)	04	172,705	136,423			136,423	U
111	0604874C	Improved Homeland Defense Interceptors	04	407,858	515,000			515,000	U
112	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	57,972	25,137			25,137	U
113	0604878C	Aegis BMD Test	04	92,160	169,822			169,822	U
114	0604879C	Ballistic Missile Defense Sensor Test	04	71,905	105,530			105,530	U
115	0604880C	Land-Based SM-3 (LBSM3)	04	25,200	38,352			38,352	U
116	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	72,634	98,139			98,139	U
117	0604894C	Multi-Object Kill Vehicle	04	5,754					U
120	0305103C	Cyber Security Initiative	04	961	11,138			11,138	U
122	1206893C	Space Tracking & Surveillance System	04	36,114	36,349			36,349	U
123	1206895C	Ballistic Missile Defense System Space Programs	04	96,146	140,565			140,565	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>6,999,143</b>	<b>8,023,657</b>			<b>8,023,657</b>	

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90	0603915C	Ballistic Missile Defense Targets	04	536,133				536,133	U
95	0604115C	Technology Maturation Initiatives	04	67,389				67,389	U
98	0604181C	Hypersonic Defense	04	206,832				206,832	U
105	0604672C	Homeland Defense Radar - Hawaii (HDR-H)	04						U
106	0604673C	Pacific Discriminating Radar	04						U
110	0604873C	Long Range Discrimination Radar (LRDR)	04	137,256				137,256	U
111	0604874C	Improved Homeland Defense Interceptors	04	664,138				664,138	U
112	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	7,768				7,768	U
113	0604878C	Aegis BMD Test	04	170,880				170,880	U
114	0604879C	Ballistic Missile Defense Sensor Test	04	76,456				76,456	U
115	0604880C	Land-Based SM-3 (LBSM3)	04	56,628				56,628	U
116	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	67,071				67,071	U
117	0604894C	Multi-Object Kill Vehicle	04						U
120	0305103C	Cyber Security Initiative	04	1,148				1,148	U
122	1206893C	Space Tracking & Surveillance System	04	34,144				34,144	U
123	1206895C	Ballistic Missile Defense System Space Programs	04	32,068				32,068	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>7,098,084</b>				<b>7,098,084</b>	

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163	0605502C	Small Business Innovation Research - MDA	06	91,161					U
178	0606942C	Assessments and Evaluations Cyber Vulnerabilities	06	3,400					U
196	0901598C	Management HQ - MDA	06	28,626	27,065			27,065	U
		<b>Management Support</b>		<b>123,187</b>	<b>27,065</b>			<b>27,065</b>	
<b>Total Missile Defense Agency</b>				<b>7,246,099</b>	<b>8,138,197</b>			<b>8,138,197</b>	

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163	0605502C	Small Business Innovation Research - MDA	06						U
178	0606942C	Assessments and Evaluations Cyber Vulnerabilities	06						U
196	0901598C	Management HQ - MDA	06	26,902				26,902	U
		<b>Management Support</b>		<b>26,902</b>				<b>26,902</b>	
<b>Total Missile Defense Agency</b>				<b>7,169,641</b>				<b>7,169,641</b>	



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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted		
215	0303136G	Key Management Infrastructure (KMI)	07	31,737	54,516				54,516 U
217	0303140G	Information Systems Security Program	07	235,082	327,198				327,198 U
		Operational Systems Development		-----	-----	-----	-----	-----	
		Total National Security Agency		-----	-----	-----	-----	-----	

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215	0303136G	Key Management Infrastructure (KMI)	07	73,356				73,356	U
217	0303140G	Information Systems Security Program	07	356,713				356,713	U
		Operational Systems Development		-----	-----	-----	-----	-----	
Total National Security Agency					-----	-----	-----	-----	

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								Total Enacted S (Base+Emerg+ e OCO)	c
3	0601110D8Z	Basic Research Initiatives	01	55,195	70,874			70,874	U
5	0601120D8Z	National Defense Education Program	01	132,743	144,074			144,074	U
6	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	01	38,568	52,708			52,708	U
<b>Basic Research</b>				<b>226,506</b>	<b>267,656</b>			<b>267,656</b>	
8	0602000D8Z	Joint Munitions Technology	02	19,067	19,306			19,306	U
11	0602230D8Z	Defense Technology Innovation	02						U
12	0602234D8Z	Lincoln Laboratory Research Program	02	49,647	52,317			52,317	U
13	0602251D8Z	Applied Research for the Advancement of S&T Priorities	02	59,567	60,400			60,400	U
17	0602668D8Z	Cyber Security Research	02	14,594	25,118			25,118	U
22	0602751D8Z	Software Engineering Institute (SEI) Applied Research	02	8,942	9,580			9,580	U
<b>Applied Research</b>				<b>151,817</b>	<b>166,721</b>			<b>166,721</b>	
24	0603000D8Z	Joint Munitions Advanced Technology	03	25,462	25,779			25,779	U
25	0603121D8Z	SO/LIC Advanced Development	03		5,000			5,000	U
26	0603122D8Z	Combating Terrorism Technology Support	03	168,012	91,517		25,230	116,747	U
27	0603133D8Z	Foreign Comparative Testing	03	23,867	24,970			24,970	U
33	0603225D8Z	Joint DoD-DoE Munitions Technology Development	03	17,941	18,773			18,773	U
36	0603288D8Z	Analytic Assessments	03	17,768	18,429			18,429	U

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3	0601110D8Z	Basic Research Initiatives	01	35,565				35,565	U
5	0601120D8Z	National Defense Education Program	01	100,241				100,241	U
6	0601228D8Z	Historically Black Colleges and Universities/Minority Institutions	01	30,975				30,975	U
<b>Basic Research</b>				<b>166,781</b>				<b>166,781</b>	
8	0602000D8Z	Joint Munitions Technology	02	19,409				19,409	U
11	0602230D8Z	Defense Technology Innovation	02	35,000				35,000	U
12	0602234D8Z	Lincoln Laboratory Research Program	02	41,080				41,080	U
13	0602251D8Z	Applied Research for the Advancement of S&T Priorities	02	60,722				60,722	U
17	0602668D8Z	Cyber Security Research	02	15,255				15,255	U
22	0602751D8Z	Software Engineering Institute (SEI) Applied Research	02	9,573				9,573	U
<b>Applied Research</b>				<b>181,039</b>				<b>181,039</b>	
24	0603000D8Z	Joint Munitions Advanced Technology	03	22,920				22,920	U
25	0603121D8Z	SO/LIC Advanced Development	03	4,914				4,914	U
26	0603122D8Z	Combating Terrorism Technology Support	03	51,089		19,288	19,288	70,377	U
27	0603133D8Z	Foreign Comparative Testing	03	25,183				25,183	U
33	0603225D8Z	Joint DoD-DoE Munitions Technology Development	03	18,873				18,873	U
36	0603288D8Z	Analytic Assessments	03	23,775				23,775	U

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								Total Enacted S (Base+Emerg+ e OCO)	c
37	0603289D8Z	Advanced Innovative Analysis and Concepts	03	36,344	37,645			37,645	U
38	0603291D8Z	Advanced Innovative Analysis and Concepts - MHA	03	13,286	14,668			14,668	U
40	0603338D8Z	Defense Modernization and Prototyping	03						U
42	0603342D8Z	Defense Innovation Unit (DIU)	03		29,398			29,398	U
43	0603375D8Z	Technology Innovation	03	25,856	30,000			30,000	U
45	0603527D8Z	RETRACT LARCH	03	161,453	159,688			159,688	U
46	0603618D8Z	Joint Electronic Advanced Technology	03	12,680	12,063			12,063	U
47	0603648D8Z	Joint Capability Technology Demonstrations	03	102,494	89,859			89,859	U
48	0603662D8Z	Networked Communications Capabilities	03	12,291	2,858			2,858	U
49	0603680D8Z	Defense-Wide Manufacturing Science and Technology Program	03	171,749	197,397			197,397	U
51	0603699D8Z	Emerging Capabilities Technology Development	03	59,350	109,411			109,411	U
53	0603716D8Z	Strategic Environmental Research Program	03	75,485	66,157			66,157	U
55	0603727D8Z	Joint Warfighting Program	03	5,161	4,846			4,846	U
60	0603769D8Z	Distributed Learning Advanced Technology Development	03	13,414	22,446			22,446	U
61	0603781D8Z	Software Engineering Institute	03	15,016	15,111			15,111	U
62	0603826D8Z	Quick Reaction Special Projects	03	57,004	35,647			35,647	U

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37	0603289D8Z	Advanced Innovative Analysis and Concepts	03	36,524				36,524	U
38	0603291D8Z	Advanced Innovative Analysis and Concepts - MHA	03	14,703				14,703	U
40	0603338D8Z	Defense Modernization and Prototyping	03	133,375				133,375	U
42	0603342D8Z	Defense Innovation Unit (DIU)	03	26,141				26,141	U
43	0603375D8Z	Technology Innovation	03	27,709				27,709	U
45	0603527D8Z	RETRACT LARCH	03	130,283				130,283	U
46	0603618D8Z	Joint Electronic Advanced Technology	03	15,164				15,164	U
47	0603648D8Z	Joint Capability Technology Demonstrations	03	85,452				85,452	U
48	0603662D8Z	Networked Communications Capabilities	03	5,882				5,882	U
49	0603680D8Z	Defense-Wide Manufacturing Science and Technology Program	03	93,817				93,817	U
51	0603699D8Z	Emerging Capabilities Technology Development	03						U
53	0603716D8Z	Strategic Environmental Research Program	03	53,862				53,862	U
55	0603727D8Z	Joint Warfighting Program	03	3,871				3,871	U
60	0603769D8Z	Distributed Learning Advanced Technology Development	03	6,765				6,765	U
61	0603781D8Z	Software Engineering Institute	03	12,598				12,598	U
62	0603826D8Z	Quick Reaction Special Projects	03						U

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								Total Enacted S (Base+Emerg+ e OCO)	c
63	0603833D8Z	Engineering Science & Technology	03	18,895	19,376			19,376	U
64	0603924D8Z	High Energy Laser Advanced Technology Program	03	71,819	80,723			80,723	U
65	0603941D8Z	Test & Evaluation Science & Technology	03	114,559	191,574			191,574	U
66	0603950D8Z	National Security Innovation Network	03		40,000			40,000	U
67	0604055D8Z	Operational Energy Capability Improvement	03	44,362	64,900			64,900	U
68	0303310D8Z	CWMD Systems	03	25,619	28,907			28,907	U
69	0303367D8Z	Spectrum Access Research and Development	03	27,002					U
<b>Advanced Technology Development</b>				<b>1,316,889</b>	<b>1,437,142</b>		<b>25,230</b>	<b>1,462,372</b>	
72	0603161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	04	27,123	42,695			42,695	U
73	0603600D8Z	WALKOFF	04	89,376	92,791			92,791	U
74	0603821D8Z	Acquisition Enterprise Data & Information Services	04	2,500	5,659			5,659	U
75	0603851D8Z	Environmental Security Technical Certification Program	04	41,058	68,572			68,572	U
91	0603920D8Z	Humanitarian Demining	04	10,952	14,700			14,700	U
92	0603923D8Z	Coalition Warfare	04	8,379	11,316			11,316	U
93	0604011D8Z	Next Generation Information Communications Technology (5G)	04	52,000	200,000			200,000	U
94	0604016D8Z	Department of Defense Corrosion Program	04	9,281	13,165			13,165	U

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Appropriation: 0400D Research, Development, Test & Eval, DW

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
63	0603833D8Z	Engineering Science & Technology	03						U
64	0603924D8Z	High Energy Laser Advanced Technology Program	03	105,410				105,410	U
65	0603941D8Z	Test & Evaluation Science & Technology	03	187,065				187,065	U
66	0603950D8Z	National Security Innovation Network	03						U
67	0604055D8Z	Operational Energy Capability Improvement	03						U
68	0303310D8Z	CWMD Systems	03						U
69	0303367D8Z	Spectrum Access Research and Development	03						U
<b>Advanced Technology Development</b>				<b>1,085,375</b>		<b>19,288</b>	<b>19,288</b>	<b>1,104,663</b>	
72	0603161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	04	32,636				32,636	U
73	0603600D8Z	WALKOFF	04	106,529				106,529	U
74	0603821D8Z	Acquisition Enterprise Data & Information Services	04						U
75	0603851D8Z	Environmental Security Technical Certification Program	04	61,345				61,345	U
91	0603920D8Z	Humanitarian Demining	04						U
92	0603923D8Z	Coalition Warfare	04	10,129				10,129	U
93	0604011D8Z	Next Generation Information Communications Technology (5G)	04	449,000				449,000	U
94	0604016D8Z	Department of Defense Corrosion Program	04	3,325				3,325	U



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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
96	0604132D8Z	Missile Defeat Project	04	41,961	14,816			14,816 U
99	0604250D8Z	Advanced Innovative Technologies	04	1,347,956	1,133,365			1,133,365 U
100	0604294D8Z	Trusted & Assured Microelectronics	04	517,356	547,421			547,421 U
101	0604331D8Z	Rapid Prototyping Program	04	96,196	72,351			72,351 U
102	0604341D8Z	Defense Innovation Unit (DIU) Prototyping	04		17,000			17,000 U
103	0604400D8Z	Department of Defense (DoD) Unmanned System Common Development	04	7,625	7,021			7,021 U
104	0604532D8Z	Joint Artificial Intelligence	04	12,968				U
107	0604682D8Z	Wargaming and Support for Strategic Analysis (SSA)	04	3,621	3,751			3,751 U
108	0604775D8Z	Defense Rapid Innovation Program	04	241,194				U
119	0303191D8Z	Joint Electromagnetic Technology (JET) Program	04	3,096	3,191			3,191 U
<b>Advanced Component Development &amp; Prototypes</b>				<b>2,512,642</b>	<b>2,247,814</b>			<b>2,247,814</b>
124	0604161D8Z	Nuclear and Conventional Physical Security Equipment RDT&E SDD	05	8,185	11,276			11,276 U
125	0604165D8Z	Prompt Global Strike Capability Development	05	525,670	151,000			151,000 U
127	0604771D8Z	Joint Tactical Information Distribution System (JTIDS)	05	46,210	54,102			54,102 U
131	0605022D8Z	Defense Exportability Program	05	1,455	12,115			12,115 U
132	0605027D8Z	OUSD(C) IT Development Initiatives	05	9,219	9,590			9,590 U
134	0605075D8Z	CMO Policy and Integration	05	2,100	1,618			1,618 U

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96	0604132D8Z		Missile Defeat Project	04						U
99	0604250D8Z		Advanced Innovative Technologies	04	730,508				730,508	U
100	0604294D8Z		Trusted & Assured Microelectronics	04	489,076				489,076	U
101	0604331D8Z		Rapid Prototyping Program	04	102,023				102,023	U
102	0604341D8Z		Defense Innovation Unit (DIU) Prototyping	04	13,255				13,255	U
103	0604400D8Z		Department of Defense (DoD) Unmanned System Common Development	04	2,787				2,787	U
104	0604532D8Z		Joint Artificial Intelligence	04						U
107	0604682D8Z		Wargaming and Support for Strategic Analysis (SSA)	04	3,469				3,469	U
108	0604775D8Z		Defense Rapid Innovation Program	04						U
119	0303191D8Z		Joint Electromagnetic Technology (JET) Program	04	997				997	U
	<b>Advanced Component Development &amp; Prototypes</b>				<b>2,005,079</b>				<b>2,005,079</b>	
124	0604161D8Z		Nuclear and Conventional Physical Security Equipment RDT&E SDD	05	7,173				7,173	U
125	0604165D8Z		Prompt Global Strike Capability Development	05						U
127	0604771D8Z		Joint Tactical Information Distribution System (JTIDS)	05	54,985				54,985	U
131	0605022D8Z		Defense Exportability Program	05	12,928				12,928	U
132	0605027D8Z		OUSD(C) IT Development Initiatives	05	10,259				10,259	U
134	0605075D8Z		CMO Policy and Integration	05	1,648				1,648	U

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				(Base + OCO)	Base Enacted	Emergency	OCO Enacted			
138	0605210D8Z	Defense-Wide Electronic Procurement Capabilities	05	6,126	9,619				9,619	U
139	0605294D8Z	Trusted & Assured Microelectronics	05	94,617	175,032				175,032	U
140	0605772D8Z	Nuclear Command, Control, & Communications	05							U
143	0305304D8Z	DoD Enterprise Energy Information Management (EEIM)	05	2,391	4,373				4,373	U
144	0305310D8Z	CWMD Systems: System Development and Demonstration	05	16,385	12,854				12,854	U
<b>System Development &amp; Demonstration</b>				<b>712,358</b>	<b>441,579</b>				<b>441,579</b>	
146	0604774D8Z	Defense Readiness Reporting System (DRRS)	06	6,606	9,724				9,724	U
147	0604875D8Z	Joint Systems Architecture Development	06	3,929	9,593				9,593	U
148	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	06	295,067	390,692				390,692	U
149	0604942D8Z	Assessments and Evaluations	06	30,138	30,834				30,834	U
151	0605100D8Z	Joint Mission Environment Test Capability (JMETC)	06	88,004	89,091				89,091	U
152	0605104D8Z	Technical Studies, Support and Analysis	06	21,281	18,079				18,079	U
154	0605128D8Z	Classified Program USD(P)	06	127,000	104,000				104,000	U
155	0605142D8Z	Systems Engineering	06	37,446	37,140				37,140	U
156	0605151D8Z	Studies and Analysis Support - OSD	06	3,423	4,759				4,759	U
157	0605161D8Z	Nuclear Matters-Physical Security	06	4,854	8,307				8,307	U

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138	0605210D8Z	Defense-Wide Electronic Procurement Capabilities	05	8,279				8,279	U
139	0605294D8Z	Trusted & Assured Microelectronics	05	107,585				107,585	U
140	0605772D8Z	Nuclear Command, Control, & Communications	05	3,685				3,685	U
143	0305304D8Z	DoD Enterprise Energy Information Management (EEIM)	05	3,275				3,275	U
144	0305310D8Z	CWMD Systems: System Development and Demonstration	05	20,585				20,585	U
	<b>System Development &amp; Demonstration</b>			<b>230,402</b>				<b>230,402</b>	
146	0604774D8Z	Defense Readiness Reporting System (DRRS)	06	9,793				9,793	U
147	0604875D8Z	Joint Systems Architecture Development	06	8,497				8,497	U
148	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	06	422,451				422,451	U
149	0604942D8Z	Assessments and Evaluations	06	18,379				18,379	U
151	0605100D8Z	Joint Mission Environment Test Capability (JMETC)	06	79,046				79,046	U
152	0605104D8Z	Technical Studies, Support and Analysis	06						U
154	0605128D8Z	Classified Program USD(P)	06						U
155	0605142D8Z	Systems Engineering	06	49,376				49,376	U
156	0605151D8Z	Studies and Analysis Support - OSD	06	5,777				5,777	U
157	0605161D8Z	Nuclear Matters-Physical Security	06	16,552				16,552	U

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								Total Enacted	S
								(Base+Emerg+ e	c
								OCO)	
158	0605170D8Z	Support to Networks and Information Integration	06	11,042	9,441			9,441	U
159	0605200D8Z	General Support to USD (Intelligence)	06	8,139	20,200			20,200	U
164	0605502D8Z	Small Business Innovative Research	06	147,668					U
167	0605790D8Z	Small Business Innovation Research (SBIR)/ Small Business Technology Transfer	06	2,539	3,568			3,568	U
168	0605797D8Z	Maintaining Technology Advantage	06		20,936			20,936	U
169	0605798D8Z	Defense Technology Analysis	06	27,231	15,875			15,875	U
172	0605804D8Z	Development Test and Evaluation	06	19,417	22,203			22,203	U
175	0606100D8Z	Budget and Program Assessments	06	5,544	8,017			8,017	U
176	0606225D8Z	ODNA Technology and Resource Analysis	06	1,028	3,194			3,194	U
180	0203345D8Z	Defense Operations Security Initiative (DOSI)	06	9,892	8,037			8,037	U
187	0303260D8Z	Defense Military Deception Program Office (DMDPO)	06	966	1,014			1,014	U
191	0305245D8Z	Intelligence Capabilities and Innovation Investments	06	188,876	15,871			15,871	U
192	0306310D8Z	CWMD Systems: RDT&E Management Support	06	1,195					U
193	0307588D8Z	Algorithmic Warfare Cross Functional Teams	06		221,235			221,235	U
198	0909999D8Z	Financing for Cancelled Account Adjustments	06	969					U
<b>Management Support</b>				<b>1,042,254</b>	<b>1,051,810</b>			<b>1,051,810</b>	

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158	0605170D8Z	Support to Networks and Information Integration	06	9,582				9,582	U
159	0605200D8Z	General Support to USD (Intelligence)	06	1,940				1,940	U
164	0605502D8Z	Small Business Innovative Research	06						U
167	0605790D8Z	Small Business Innovation Research (SBIR)/ Small Business Technology Transfer	06	3,582				3,582	U
168	0605797D8Z	Maintaining Technology Advantage	06	29,566				29,566	U
169	0605798D8Z	Defense Technology Analysis	06	29,059				29,059	U
172	0605804D8Z	Development Test and Evaluation	06	27,198				27,198	U
175	0606100D8Z	Budget and Program Assessments	06	13,173				13,173	U
176	0606225D8Z	ODNA Technology and Resource Analysis	06	3,200				3,200	U
180	0203345D8Z	Defense Operations Security Initiative (DOSI)	06	3,099				3,099	U
187	0303260D8Z	Defense Military Deception Program Office (DMDPO)	06	1,036				1,036	U
191	0305245D8Z	Intelligence Capabilities and Innovation Investments	06						U
192	0306310D8Z	CWMD Systems: RDT&E Management Support	06						U
193	0307588D8Z	Algorithmic Warfare Cross Functional Teams	06						U
198	0909999D8Z	Financing for Cancelled Account Adjustments	06						U
	<b>Management Support</b>			<b>731,306</b>				<b>731,306</b>	

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								Total Enacted S (Base+Emerg+ e OCO)	c
203	0607210D8Z	Industrial Base Analysis and Sustainment Support	07		104,051			104,051	U
204	0607310D8Z	CWMD Systems: Operational Systems Development	07		12,734			12,734	U
216	0303140D8Z	Information Systems Security Program	07	17,899	67,631			67,631	U
235	0305186D8Z	Policy R&D Programs	07		6,301			6,301	U
236	0305199D8Z	Net Centricity	07	4,071	21,384			21,384	U
245	0305387D8Z	Homeland Defense Technology Transfer Program	07		2,221			2,221	U
<b>Operational Systems Development</b>				<b>21,970</b>	<b>214,322</b>			<b>214,322</b>	
270	0608648D8Z	Acquisition Visibility - Software Pilot Program	08						U
272	0308588D8Z	Algorithmic Warfare Cross Functional Teams - Software Pilot Program	08						U
<b>Software And Digital Technology Pilot Programs</b>									
<b>Total Office of Secretary of Defense</b>				<b>5,984,436</b>	<b>5,827,044</b>		<b>25,230</b>	<b>5,852,274</b>	

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203	0607210D8Z	Industrial Base Analysis and Sustainment Support	07	9,151				9,151	U
204	0607310D8Z	CWMD Systems: Operational Systems Development	07	19,082				19,082	U
216	0303140D8Z	Information Systems Security Program	07	46,577				46,577	U
235	0305186D8Z	Policy R&D Programs	07	7,144				7,144	U
236	0305199D8Z	Net Centricity	07	21,793				21,793	U
245	0305387D8Z	Homeland Defense Technology Transfer Program	07	2,190				2,190	U
<b>Operational Systems Development</b>				<b>105,937</b>				<b>105,937</b>	
270	0608648D8Z	Acquisition Visibility - Software Pilot Program	08	16,848				16,848	U
272	0308588D8Z	Algorithmic Warfare Cross Functional Teams - Software Pilot Program	08	250,107				250,107	U
<b>Software And Digital Technology Pilot Programs</b>				<b>266,955</b>				<b>266,955</b>	
<b>Total Office of Secretary of Defense</b>				<b>4,772,874</b>		<b>19,288</b>	<b>19,288</b>	<b>4,792,162</b>	



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								Total Enacted S	(Base+Emerg+ e OCO) c
71	1206310	SDA Space Science and Technology Research and Development	03		20,000			20,000	U
		<b>Advanced Technology Development</b>		-----	20,000	-----	-----	20,000	
121	1206410	SDA Space Technology Development and Prototyping	04		75,000			75,000	U
		<b>Advanced Component Development &amp; Prototypes</b>		-----	75,000	-----	-----	75,000	
<b>Total Space Development Agency</b>				-----	95,000	-----	-----	95,000	

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71	1206310	SDA Space Science and Technology Research and Development	03	72,422				72,422	U
		<b>Advanced Technology Development</b>		<b>72,422</b>				<b>72,422</b>	
121	1206410	SDA Space Technology Development and Prototyping	04	215,994				215,994	U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>215,994</b>				<b>215,994</b>	
<b>Total Space Development Agency</b>				<b>288,416</b>				<b>288,416</b>	

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								Total Enacted S (Base+Emerg+ e OCO)	c
23	1160401BB	SOF Technology Development	02	34,635	37,569			37,569	U
		<b>Applied Research</b>		<b>34,635</b>	<b>37,569</b>			<b>37,569</b>	
70	1160402BB	SOF Advanced Technology Development	03	77,010	99,404			99,404	U
		<b>Advanced Technology Development</b>		<b>77,010</b>	<b>99,404</b>			<b>99,404</b>	
238	0305208BB	Distributed Common Ground/Surface Systems	07	6,286	6,359			6,359	U
256	1105219BB	MQ-9 UAV	07	17,745	20,697			20,697	U
257	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07	18,445					U
258	1160403BB	Aviation Systems	07	168,026	267,695			267,695	U
259	1160405BB	Intelligence Systems Development	07	10,625	15,484			15,484	U
260	1160408BB	Operational Enhancements	07	98,395	159,922		726	160,648	U
261	1160431BB	Warrior Systems	07	74,250	75,514		6,000	81,514	U
262	1160432BB	Special Programs	07	2,885	21,005			21,005	U
263	1160434BB	Unmanned ISR	07	44,970	37,377		5,000	42,377	U
264	1160480BB	SOF Tactical Vehicles	07	1,806	11,150			11,150	U
265	1160483BB	Maritime Systems	07	40,600	72,626			72,626	U
266	1160489BB	Global Video Surveillance Activities	07	4,780	5,363			5,363	U
267	1160490BB	Operational Enhancements Intelligence	07	12,176	9,962			9,962	U
		<b>Operational Systems Development</b>		<b>500,989</b>	<b>703,154</b>		<b>11,726</b>	<b>714,880</b>	

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23	1160401BB	SOF Technology Development	02	42,464				42,464	U
	<b>Applied Research</b>			<b>42,464</b>				<b>42,464</b>	
70	1160402BB	SOF Advanced Technology Development	03	89,072				89,072	U
	<b>Advanced Technology Development</b>			<b>89,072</b>				<b>89,072</b>	
238	0305208BB	Distributed Common Ground/Surface Systems	07	6,066				6,066	U
256	1105219BB	MQ-9 UAV	07	21,265				21,265	U
257	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	07						U
258	1160403BB	Aviation Systems	07	230,812				230,812	U
259	1160405BB	Intelligence Systems Development	07	19,558				19,558	U
260	1160408BB	Operational Enhancements	07	136,041		1,186	1,186	137,227	U
261	1160431BB	Warrior Systems	07	59,511		5,796	5,796	65,307	U
262	1160432BB	Special Programs	07	10,500				10,500	U
263	1160434BB	Unmanned ISR	07	19,154		5,000	5,000	24,154	U
264	1160480BB	SOF Tactical Vehicles	07	9,263				9,263	U
265	1160483BB	Maritime Systems	07	59,882				59,882	U
266	1160489BB	Global Video Surveillance Activities	07	4,606				4,606	U
267	1160490BB	Operational Enhancements Intelligence	07	11,612				11,612	U
	<b>Operational Systems Development</b>			<b>588,270</b>		<b>11,982</b>	<b>11,982</b>	<b>600,252</b>	

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Total U.S., Special Operations Command			612,634	840,127		11,726	851,853

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Total U.S., Special Operations Command				719,806		11,982	11,982	731,788	

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The Joint Staff  
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 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test &amp; Eval, DW

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	Total Enacted S
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	(Base+Emerg+ e OCO)	c
109	0604826J	Joint C5 Capability Development, Integration and interoperability Assessments	04	21,904	20,062				20,062 U
		<b>Advanced Component Development &amp; Prototypes</b>		<b>21,904</b>	<b>20,062</b>				<b>20,062</b>
145	0603829J	Joint Capability Experimentation	06		13,000				13,000 U
153	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	48,097	62,805				62,805 U
181	0204571J	Joint Staff Analytical Support	06	16,768	9,216				9,216 U
186	0303166J	Support to Information Operations (IO) Capabilities	06	859	553				553 U
194	0804768J	COCOM Exercise Engagement and Training Transformation (CE2T2) - non-MHA	06	43,600	40,073				40,073 U
		<b>Management Support</b>		<b>109,324</b>	<b>125,647</b>				<b>125,647</b>
207	0208043J	Planning and Decision Aid System (PDAS)	07	3,037	4,537				4,537 U
		<b>Operational Systems Development</b>		<b>3,037</b>	<b>4,537</b>				<b>4,537</b>
<b>Total The Joint Staff</b>				<b>134,265</b>	<b>150,246</b>				<b>150,246</b>

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The Joint Staff  
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 (Dollars in Thousands)

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Appropriation: 0400D Research, Development, Test & Eval, DW

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
109	0604826J	Joint C5 Capability Development, Integration and interoperability Assessments	04	19,190				19,190	U
<b>Advanced Component Development &amp; Prototypes</b>				<b>19,190</b>				<b>19,190</b>	
145	0603829J	Joint Capability Experimentation	06	11,239				11,239	U
153	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	50,255				50,255	U
181	0204571J	Joint Staff Analytical Support	06	3,058				3,058	U
186	0303166J	Support to Information Operations (IO) Capabilities	06	545				545	U
194	0804768J	COCOM Exercise Engagement and Training Transformation (CE2T2) - non-MHA	06	31,125				31,125	U
<b>Management Support</b>				<b>96,222</b>				<b>96,222</b>	
207	0208043J	Planning and Decision Aid System (PDAS)	07	3,039				3,039	U
<b>Operational Systems Development</b>				<b>3,039</b>				<b>3,039</b>	
<b>Total The Joint Staff</b>				<b>118,451</b>				<b>118,451</b>	



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Washington Headquarters Services  
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 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

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
41	0603342D8W	Defense Innovation Unit Experimental (DIUx)	03	29,198					U
		<b>Advanced Technology Development</b>		<b>29,198</b>					
177	0606589D8W	Defense Digital Service (DDS) Development Support	06	1,000	1,000			1,000	U
		<b>Management Support</b>		<b>1,000</b>	<b>1,000</b>			<b>1,000</b>	
<b>Total Washington Headquarters Services</b>				<b>30,198</b>	<b>1,000</b>			<b>1,000</b>	

Washington Headquarters Services  
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 Exhibit R-1 FY 2021 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

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
41	0603342D8W	Defense Innovation Unit Experimental (DIUx)	03						U
		<b>Advanced Technology Development</b>							
177	0606589D8W	Defense Digital Service (DDS) Development Support	06	999				999	U
		<b>Management Support</b>		999				999	
<b>Total Washington Headquarters Services</b>				<b>999</b>				<b>999</b>	

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Inspector General  
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 (Dollars in Thousands)

Feb 2020

	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
<u>Summary Recap of Budget Activities</u>					
RDT&E	3,977	2,965			2,965
Total Research, Development, Test & Evaluation	3,977	2,965			2,965
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Administration and Associated Activities	3,977	2,965			2,965
Total Research, Development, Test & Evaluation	3,977	2,965			2,965

Inspector General  
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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 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)
<u>Summary Recap of Budget Activities</u>					
RDT&E	1,098				1,098
Total Research, Development, Test & Evaluation	1,098				1,098
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Administration and Associated Activities	1,098				1,098
Total Research, Development, Test & Evaluation	1,098				1,098

Inspector General  
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 Non RDT&E Title  
 (Dollars in Thousands)

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Appropriation: 0107D Office of the Inspector General

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	c
1	0901517X	Inspector General, DoD, Audit, Intelligence and Non-Criminal Investigative Activ	02	3,766	2,965				2,965 U
2	0902498X	Office of the DoD Inspector General - MHA	02	211					U
		<b>RDT&amp;E</b>		<b>3,977</b>	<b>2,965</b>				<b>2,965</b>
<b>Total Office of the Inspector General</b>				<b>3,977</b>	<b>2,965</b>				<b>2,965</b>

Inspector General  
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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0107D Office of the Inspector General

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	0901517X	Inspector General, DoD, Audit, Intelligence and Non-Criminal Investigative Activ	02	966				966	U
2	0902498X	Office of the DoD Inspector General - MHA	02	132				132	U
		<b>RDT&amp;E</b>		<b>1,098</b>				<b>1,098</b>	
<b>Total Office of the Inspector General</b>				<b>1,098</b>				<b>1,098</b>	

Defense Health Agency  
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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
<u>Summary Recap of Budget Activities</u>					
RDT&E	2,179,621	2,306,095			2,306,095
Total Research, Development, Test & Evaluation	2,179,621	2,306,095			2,306,095
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Research and Development	2,179,621	2,306,095			2,306,095
Total Research, Development, Test & Evaluation	2,179,621	2,306,095			2,306,095

Defense Health Agency  
 FY 2021 President's Budget  
 Exhibit R-1 FY 2021 President's Budget  
 Non RDT&E Title  
 (Dollars in Thousands)

Feb 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)
<u>Summary Recap of Budget Activities</u>					
RDT&E	562,465				562,465
Total Research, Development, Test & Evaluation	562,465				562,465
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Research and Development	562,465				562,465
Total Research, Development, Test & Evaluation	562,465				562,465



Defense Health Agency  
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 Exhibit R-1 FY 2021 President's Budget  
 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0130D Defense Health Program

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO)	c
1	0601101DHA	In-House Laboratory Independent Research	02	3,552	4,013			4,013	U
2	0601117DHA	Basic Operational Medical Research Science	02	8,400	17,408			17,408	U
3	0602115DHA	Applied Biomedical Technology	02	107,837	175,032			175,032	U
4	0602787DHA	Medical Technology	02	1,307	1,383			1,383	U
5	0603002DHA	Medical Advanced Technology	02	325	345			345	U
6	0603115DHA	Medical Development	02	1,594,929	1,782,072			1,782,072	U
7	0604110DHA	Medical Products Support and Advanced Concept Development	02	158,933	138,055			138,055	U
8	0605013DHA	Information Technology Development	02	24,306	23,780			23,780	U
9	0605026DHA	Information Technology Development- DoD Healthcare Management System Modernizati	02	27,293	14,478			14,478	U
10	0605045DHA	Joint Operational Medicine Information System	02	75,284	41,902			41,902	U
11	0605145DHA	Medical Products and Support Systems Development	02	24,921	21,589			21,589	U
12	0605502DHA	Small Business Innovative Research	02	66,784					U
13	0606105DHA	Medical Program-Wide Activities	02	70,610	69,219			69,219	U
14	0607100DHA	Medical Products and Capabilities Enhancement Activities	02	15,140	16,819			16,819	U
<b>RDT&amp;E</b>				<b>2,179,621</b>	<b>2,306,095</b>			<b>2,306,095</b>	
<b>Total Defense Health Program</b>				<b>2,179,621</b>	<b>2,306,095</b>			<b>2,306,095</b>	

Defense Health Agency  
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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

## Appropriation: 0130D Defense Health Program

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	0601101DHA	In-House Laboratory Research	02						U
2	0601117DHA	Basic Operational Medical Research Science	02	8,913				8,913	U
3	0602115DHA	Applied Biomedical Technology	02	72,573				72,573	U
4	0602787DHA	Medical Technology	02	1,411				1,411	U
5	0603002DHA	Medical Advanced Technology	02	352				352	U
6	0603115DHA	Medical Development	02	225,250				225,250	U
7	0604110DHA	Medical Products Support and Advanced Concept Development	02	132,331				132,331	U
8	0605013DHA	Information Technology Development	02	16,344				16,344	U
9	0605026DHA	Information Technology Development- DoD Healthcare Management System Modernizati	02	18,336				18,336	U
10	0605045DHA	Joint Operational Medicine Information System	02						U
11	0605145DHA	Medical Products and Support Systems Development	02	21,068				21,068	U
12	0605502DHA	Small Business Innovative Research	02						U
13	0606105DHA	Medical Program-Wide Activities	02	48,672				48,672	U
14	0607100DHA	Medical Products and Capabilities Enhancement Activities	02	17,215				17,215	U
<b>RDT&amp;E</b>				<b>562,465</b>				<b>562,465</b>	
<b>Total Defense Health Program</b>				<b>562,465</b>				<b>562,465</b>	

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	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
<b><u>Summary Recap of Budget Activities</u></b>					
Research, Development, Test, And Evaluation	666,863	875,930			875,930
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>666,863</b>	<b>875,930</b>			<b>875,930</b>
<b><u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u></b>					
Central Supply and Maintenance	666,863	875,930			875,930
<b>Total Research, Development, Test &amp; Evaluation</b>	<b>666,863</b>	<b>875,930</b>			<b>875,930</b>

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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

	FY 2021 Base	FY 2021 OCO for Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
<u>Summary Recap of Budget Activities</u>					
Research, Development, Test, And Evaluation	782,193				782,193
Total Research, Development, Test & Evaluation	782,193				782,193
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Central Supply and Maintenance	782,193				782,193
Total Research, Development, Test & Evaluation	782,193				782,193

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Department of the Army  
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 (Dollars in Thousands)

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Appropriation: 0390D Chem Agents & Munitions Destruction

Line No	Program Element Number	Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020	Total Enacted S (Base+Emerg+ e OCO) c
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted		
1	0708081D	Chemical Materials Agency	02	6,500	6,500				6,500 U
2	0708083D	Assembled Chemical Weapons Alternatives	02	660,363	869,430				869,430 U
		Research, Development, Test, And Evaluation		666,863	875,930	-----	-----	-----	875,930
		Total Chem Agents & Munitions Destruction		666,863	875,930	-----	-----	-----	875,930

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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

Appropriation: 0390D Chem Agents & Munitions Destruction

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	0708081D	Chemical Materials Agency	02	6,494				6,494	U
2	0708083D	Assembled Chemical Weapons Alternatives	02	775,699				775,699	U
		Research, Development, Test, And Evaluation		782,193				782,193	
Total Chem Agents & Munitions Destruction				782,193				782,193	

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 (Dollars in Thousands)

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	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
<u>Summary Recap of Budget Activities</u>					
Research and Development	79,505				
Total Research, Development, Test & Evaluation	79,505				
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Mobility Forces	79,505				
Total Research, Development, Test & Evaluation	79,505				

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Feb 2020

	FY 2021 <u>Base</u>	FY 2021 OCO for <u>Requirements</u>	FY 2021 OCO for Direct War and Enduring <u>Costs</u>	FY 2021 Total <u>OCO</u>	FY 2021 Total <u>(Base + OCO)</u>
<u>Summary Recap of Budget Activities</u>					
Research and Development					
Total Research, Development, Test & Evaluation					
<u>Summary Recap of Non-RDT&amp;E Title FYDP Programs</u>					
Mobility Forces					
Total Research, Development, Test & Evaluation					



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 (Dollars in Thousands)

Feb 2020

Appropriation: 4557N National Defense Sealift Fund

Line No	Element Number	Program Item	Act	FY 2019	FY 2020	FY 2020	FY 2020	FY 2020
				(Base + OCO)	Base Enacted	Emergency	OCO Enacted	Total Enacted S (Base+Emerg+ e OCO) c
1	0408042N	National Defense Sealift Fund	04	79,505	-----	-----	-----	-----
		Research and Development		79,505	-----	-----	-----	-----
		Total National Defense Sealift Fund		79,505	-----	-----	-----	-----

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 Non RDT&E Title  
 (Dollars in Thousands)

Feb 2020

Appropriation: 4557N National Defense Sealift Fund

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)	See
1	0408042N	National Defense Sealift Fund	04	-----	-----	-----	-----	-----	U
		Research and Development		-----	-----	-----	-----	-----	
Total National Defense Sealift Fund				-----	-----	-----	-----	-----	