

UNCLASSIFIED

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

07 Feb 2020

Appropriation -----	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
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Research, Development, Test & Eval, DW	7,246,099	8,138,197			8,138,197
Total Research, Development, Test & Evaluation	7,246,099	8,138,197			8,138,197

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

07 Feb 2020

Appropriation	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, DW	7,169,641				7,169,641
Total Research, Development, Test & Evaluation	7,169,641				7,169,641

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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)
Summary Recap of Budget Activities -----					
Advanced Technology Development	123,769	87,475			87,475
Advanced Component Development & Prototypes	6,999,143	8,023,657			8,023,657
Management Support	123,187	27,065			27,065
Total Research, Development, Test & Evaluation	7,246,099	8,138,197			8,138,197
Summary Recap of FYDP Programs -----					
Intelligence and Communications	961	11,138			11,138
Research and Development	7,084,252	7,923,080			7,923,080
Administration and Associated Activities	28,626	27,065			27,065
Space	132,260	176,914			176,914
Total Research, Development, Test & Evaluation	7,246,099	8,138,197			8,138,197

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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)
Summary Recap of Budget Activities -----					
Advanced Technology Development	44,655				44,655
Advanced Component Development & Prototypes	7,098,084				7,098,084
Management Support	26,902				26,902
Total Research, Development, Test & Evaluation	7,169,641				7,169,641
Summary Recap of FYDP Programs -----					
Intelligence and Communications	1,148				1,148
Research and Development	7,075,379				7,075,379
Administration and Associated Activities	26,902				26,902
Space	66,212				66,212
Total Research, Development, Test & Evaluation	7,169,641				7,169,641

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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)
Summary Recap of Budget Activities -----					
Advanced Technology Development	123,769	87,475			87,475
Advanced Component Development & Prototypes	6,999,143	8,023,657			8,023,657
Management Support	123,187	27,065			27,065
Total Research, Development, Test & Evaluation	7,246,099	8,138,197			8,138,197
Summary Recap of FYDP Programs -----					
Intelligence and Communications	961	11,138			11,138
Research and Development	7,084,252	7,923,080			7,923,080
Administration and Associated Activities	28,626	27,065			27,065
Space	132,260	176,914			176,914
Total Research, Development, Test & Evaluation	7,246,099	8,138,197			8,138,197

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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)
Summary Recap of Budget Activities -----					
Advanced Technology Development	44,655				44,655
Advanced Component Development & Prototypes	7,098,084				7,098,084
Management Support	26,902				26,902
Total Research, Development, Test & Evaluation	7,169,641				7,169,641
Summary Recap of FYDP Programs -----					
Intelligence and Communications	1,148				1,148
Research and Development	7,075,379				7,075,379
Administration and Associated Activities	26,902				26,902
Space	66,212				66,212
Total Research, Development, Test & Evaluation	7,169,641				7,169,641

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(Dollars in Thousands)

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Appropriation -----	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
Missile Defense Agency	7,246,099	8,138,197			8,138,197
Total Research, Development, Test & Evaluation	7,246,099	8,138,197			8,138,197

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 (Dollars in Thousands)

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Appropriation -----	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) -----
Missile Defense Agency	7,169,641				7,169,641
Total Research, Development, Test & Evaluation	7,169,641				7,169,641

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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 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
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
	Advanced Technology Development			123,769	87,475			87,475
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

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 Total Obligational Authority
 (Dollars in Thousands)

07 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
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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
		Advanced Technology Development		44,655				44,655	
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

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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 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted S (Base+Emerg+ e OCO) c
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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
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

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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
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89	0603914C	Ballistic Missile Defense Test	04	378,302				378,302	U
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

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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
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123	1206895C	Ballistic Missile Defense System Space Programs	04	96,146	140,565			140,565 U
		Advanced Component Development & Prototypes		6,999,143	8,023,657			8,023,657
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
		Management Support		123,187	27,065			27,065
		Total Research, Development, Test & Eval, DW		7,246,099	8,138,197			8,138,197

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Defense-Wide
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Appropriation: 0400D Research, Development, Test & 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
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123	1206895C	Ballistic Missile Defense System Space Programs	04	32,068				32,068	U
		Advanced Component Development & Prototypes		7,098,084				7,098,084	
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
		Management Support		26,902				26,902	
		Total Research, Development, Test & Eval, DW		7,169,641				7,169,641	

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Missile Defense Agency
 FY 2021 President's Budget
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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
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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
		Advanced Technology Development		123,769	87,475			87,475
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

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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
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
		Advanced Technology Development		44,655				44,655	
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

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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
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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
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

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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
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89	0603914C	Ballistic Missile Defense Test	04	378,302				378,302	U
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

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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
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123	1206895C	Ballistic Missile Defense System Space Programs	04	96,146	140,565			140,565 U
		Advanced Component Development & Prototypes		6,999,143	8,023,657			8,023,657
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
		Management Support		123,187	27,065			27,065
Total Missile Defense Agency				7,246,099	8,138,197			8,138,197

UNCLASSIFIED

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

07 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
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123	1206895C	Ballistic Missile Defense System Space Programs	04	32,068				32,068	U
		Advanced Component Development & Prototypes		7,098,084				7,098,084	
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
		Management Support		26,902				26,902	
Total Missile Defense Agency				7,169,641				7,169,641	