

## UNCLASSIFIED

Department of Defense  
 FY 2018 President's Budget Request  
 Exhibit R-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

17 May 2017

Appropriation	FY 2016 Base + OCO	FY 2017 PB Request with CR Adj Base	FY 2017 Total PB Requests* with CR Adj Base	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj OCO
Research, Development, Test & Eval, DW	6,210,652	5,892,757	5,969,695				
Total Research, Development, Test & Evaluation	6,210,652	5,892,757	5,969,695				

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Appropriation	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA	FY 2017 Total PB Requests* with CR Adj Base + OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj Base + OCO	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Research, Development, Test & Eval, DW	5,892,757	5,969,695		5,969,695	6,200,711		6,200,711
Total Research, Development, Test & Evaluation	5,892,757	5,969,695		5,969,695	6,200,711		6,200,711

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Summary Recap of Budget Activities							
-----							
Advanced Technology Development	187,246	200,527	204,827				
Advanced Component Development And Prototypes	5,898,841	5,661,070	5,733,708				
Management Support	124,565	31,160	31,160				
Total Research, Development, Test & Evaluation	6,210,652	5,892,757	5,969,695				
Summary Recap of FYDP Programs							
-----							
Intelligence and Communications	941	969	969				
Research and Development	6,173,840	5,860,628	5,937,566				
Administration and Associated Activities	35,871	31,160	31,160				
Space							
Total Research, Development, Test & Evaluation	6,210,652	5,892,757	5,969,695				

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Summary Recap of Budget Activities							
Advanced Technology Development	200,527	204,827		204,827	291,554		291,554
Advanced Component Development And Prototypes	5,661,070	5,733,708		5,733,708	5,879,210		5,879,210
Management Support	31,160	31,160		31,160	29,947		29,947
Total Research, Development, Test & Evaluation	5,892,757	5,969,695		5,969,695	6,200,711		6,200,711
Summary Recap of FYDP Programs							
Intelligence and Communications	969	969		969	986		986
Research and Development	5,860,628	5,937,566		5,937,566	6,117,877		6,117,877
Administration and Associated Activities	31,160	31,160		31,160	29,947		29,947
Space					51,901		51,901
Total Research, Development, Test & Evaluation	5,892,757	5,969,695		5,969,695	6,200,711		6,200,711

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Summary Recap of Budget Activities							
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Advanced Component Development And Prototypes	5,898,841	5,661,070	5,733,708				
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Missile Defense Agency	6,210,652	5,892,757	5,969,695				
Total Research, Development, Test & Evaluation	6,210,652	5,892,757	5,969,695				

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Missile Defense Agency	5,892,757	5,969,695		5,969,695	6,200,711		6,200,711
Total Research, Development, Test & Evaluation	5,892,757	5,969,695		5,969,695	6,200,711		6,200,711



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17 May 2017

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

Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 PB Request with CR Adj Base	FY 2017 Total PB Requests* with CR Adj Base	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj OCO	S e c
27	0603176C	Advanced Concepts and Performance Assessment	03	11,853	17,880	17,880					U
28	0603177C	Discrimination Sensor Technology	03	27,981							U
29	0603178C	Weapons Technology	03	50,263	71,843	71,843					U
30	0603179C	Advanced C4ISR	03	9,661	3,626	3,626					U
31	0603180C	Advanced Research	03	16,987	23,433	27,733					U
34	0603274C	Special Program - MDA Technology	03	9,650	83,745	83,745					U
40	0603294C	Common Kill Vehicle Technology	03	60,851							U
		Advanced Technology Development		187,246	200,527	204,827					
74	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	197,617	206,834	209,072					U
75	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	1,260,480	862,080	862,080					U
77	0603884C	Ballistic Missile Defense Sensors	04	233,020	230,077	230,077					U
78	0603890C	BMD Enabling Programs	04	406,326	401,594	408,594					U
79	0603891C	Special Programs - MDA	04	390,264	321,607	323,607					U
80	0603892C	AEGIS BMD	04	804,211	959,066	959,066					U
81	0603893C	Space Tracking & Surveillance System	04	27,262	32,129	32,129					U
82	0603895C	Ballistic Missile Defense System Space Programs	04	21,040	20,690	20,690					U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	425,996	439,617	456,267					U

R-1C1F: FY 2018 President's Budget Request (Published Version), as of May 17, 2017 at 10:40:45

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Line No	Program Element Number	Item	Act	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA	FY 2017 Total PB Requests* with CR Adj Base + OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj Base + OCO	FY 2018 Base	FY 2018 OCO	FY 2018 Total	S e c
27	0603176C	Advanced Concepts and Performance Assessment	03	17,880	17,880		17,880	12,996		12,996	U
28	0603177C	Discrimination Sensor Technology	03								U
29	0603178C	Weapons Technology	03	71,843	71,843		71,843	5,495		5,495	U
30	0603179C	Advanced C4ISR	03	3,626	3,626		3,626				U
31	0603180C	Advanced Research	03	23,433	27,733		27,733	20,184		20,184	U
34	0603274C	Special Program - MDA Technology	03	83,745	83,745		83,745				U
40	0603294C	Common Kill Vehicle Technology	03					252,879		252,879	U
		Advanced Technology Development		200,527	204,827		204,827	291,554		291,554	
74	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	206,834	209,072		209,072	230,162		230,162	U
75	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	862,080	862,080		862,080	828,097		828,097	U
77	0603884C	Ballistic Missile Defense Sensors	04	230,077	230,077		230,077	247,345		247,345	U
78	0603890C	BMD Enabling Programs	04	401,594	408,594		408,594	449,442		449,442	U
79	0603891C	Special Programs - MDA	04	321,607	323,607		323,607	320,190		320,190	U
80	0603892C	AEGIS BMD	04	959,066	959,066		959,066	852,052		852,052	U
81	0603893C	Space Tracking & Surveillance System	04	32,129	32,129		32,129				U
82	0603895C	Ballistic Missile Defense System Space Programs	04	20,690	20,690		20,690				U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	439,617	456,267		456,267	430,115		430,115	U

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84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	47,566	47,776	47,776					U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	46,191	54,750	54,750					U
86	0603906C	Regarding Trench	04	8,918	8,785	8,785					U
87	0603907C	Sea Based X-Band Radar (SBX)	04	81,265	68,787	93,287					U
88	0603913C	Israeli Cooperative Programs	04	267,595	103,835	103,835					U
89	0603914C	Ballistic Missile Defense Test	04	290,267	293,441	293,441					U
90	0603915C	Ballistic Missile Defense Targets	04	517,589	563,576	563,576					U
94	0604115C	Technology Maturation Initiatives	04	24,743	90,266	99,366					U
96	0604181C	Hypersonic Defense	04								U
105	0604873C	Long Range Discrimination Radar (LRDR)	04	132,278	162,012	173,162					U
106	0604874C	Improved Homeland Defense Interceptors	04	282,864	274,148	274,148					U
107	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	20,980	63,444	63,444					U
108	0604878C	Aegis BMD Test	04	78,468	95,012	95,012					U
109	0604879C	Ballistic Missile Defense Sensor Test	04	83,597	83,250	83,250					U
110	0604880C	Land-Based SM-3 (LBSM3)	04	29,288	43,293	43,293					U
111	0604881C	AEGIS SM-3 Block IIA Co-Development	04	165,456	106,038	106,038					U
112	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	54,619	56,481	56,481					U

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84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	47,776	47,776		47,776	48,954		48,954	U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	54,750	54,750		54,750	53,265		53,265	U
86	0603906C	Regarding Trench	04	8,785	8,785		8,785	9,113		9,113	U
87	0603907C	Sea Based X-Band Radar (SBX)	04	68,787	93,287		93,287	130,695		130,695	U
88	0603913C	Israeli Cooperative Programs	04	103,835	103,835		103,835	105,354		105,354	U
89	0603914C	Ballistic Missile Defense Test	04	293,441	293,441		293,441	305,791		305,791	U
90	0603915C	Ballistic Missile Defense Targets	04	563,576	563,576		563,576	410,425		410,425	U
94	0604115C	Technology Maturation Initiatives	04	90,266	99,366		99,366	128,406		128,406	U
96	0604181C	Hypersonic Defense	04					75,300		75,300	U
105	0604873C	Long Range Discrimination Radar (LRDR)	04	162,012	173,162		173,162	357,659		357,659	U
106	0604874C	Improved Homeland Defense Interceptors	04	274,148	274,148		274,148	465,530		465,530	U
107	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	63,444	63,444		63,444	36,239		36,239	U
108	0604878C	Aegis BMD Test	04	95,012	95,012		95,012	134,468		134,468	U
109	0604879C	Ballistic Missile Defense Sensor Test	04	83,250	83,250		83,250	84,239		84,239	U
110	0604880C	Land-Based SM-3 (LBSM3)	04	43,293	43,293		43,293	30,486		30,486	U
111	0604881C	AEGIS SM-3 Block IIA Co-Development	04	106,038	106,038		106,038	9,739		9,739	U
112	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	56,481	56,481		56,481	76,757		76,757	U

R-1C1F: FY 2018 President's Budget Request (Published Version), as of May 17, 2017 at 10:40:45

UNCLASSIFIED

Page D-4A

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113	0604894C	Multi-Object Kill Vehicle	04		71,513	71,513					U
115	0305103C	Cyber Security Initiative	04	941	969	969					U
116	1206893C	Space Tracking & Surveillance System	04								U
117	1206895C	Ballistic Missile Defense System Space Programs	04								U
		Advanced Component Development And Prototypes		5,898,841	5,661,070	5,733,708					
155	0605502C	Small Business Innovation Research - MDA	06	88,694							U
184	0901598C	Management HQ - MDA	06	35,871	31,160	31,160					U
		Management Support		124,565	31,160	31,160					
Total Research, Development, Test & Eval, DW				6,210,652	5,892,757	5,969,695					



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113	0604894C	Multi-Object Kill Vehicle	04	71,513	71,513		71,513	6,500		6,500	U
115	0305103C	Cyber Security Initiative	04	969	969		969	986		986	U
116	1206893C	Space Tracking & Surveillance System	04					34,907		34,907	U
117	1206895C	Ballistic Missile Defense System Space Programs	04					16,994		16,994	U
		Advanced Component Development And Prototypes		5,661,070	5,733,708		5,733,708	5,879,210		5,879,210	
155	0605502C	Small Business Innovation Research - MDA	06								U
184	0901598C	Management HQ - MDA	06	31,160	31,160		31,160	29,947		29,947	U
		Management Support		31,160	31,160		31,160	29,947		29,947	
Total Research, Development, Test & Eval, DW				5,892,757	5,969,695		5,969,695	6,200,711		6,200,711	

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28	0603177C	Discrimination Sensor Technology	03	27,981							U
29	0603178C	Weapons Technology	03	50,263	71,843	71,843					U
30	0603179C	Advanced C4ISR	03	9,661	3,626	3,626					U
31	0603180C	Advanced Research	03	16,987	23,433	27,733					U
34	0603274C	Special Program - MDA Technology	03	9,650	83,745	83,745					U
40	0603294C	Common Kill Vehicle Technology	03	60,851							U
		Advanced Technology Development		187,246	200,527	204,827					
74	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	197,617	206,834	209,072					U
75	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	1,260,480	862,080	862,080					U
77	0603884C	Ballistic Missile Defense Sensors	04	233,020	230,077	230,077					U
78	0603890C	BMD Enabling Programs	04	406,326	401,594	408,594					U
79	0603891C	Special Programs - MDA	04	390,264	321,607	323,607					U
80	0603892C	AEGIS BMD	04	804,211	959,066	959,066					U
81	0603893C	Space Tracking & Surveillance System	04	27,262	32,129	32,129					U
82	0603895C	Ballistic Missile Defense System Space Programs	04	21,040	20,690	20,690					U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	425,996	439,617	456,267					U

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28	0603177C	Discrimination Sensor Technology	03								U
29	0603178C	Weapons Technology	03	71,843	71,843		71,843	5,495		5,495	U
30	0603179C	Advanced C4ISR	03	3,626	3,626		3,626				U
31	0603180C	Advanced Research	03	23,433	27,733		27,733	20,184		20,184	U
34	0603274C	Special Program - MDA Technology	03	83,745	83,745		83,745				U
40	0603294C	Common Kill Vehicle Technology	03					252,879		252,879	U
	Advanced Technology Development			200,527	204,827		204,827	291,554		291,554	
74	0603881C	Ballistic Missile Defense Terminal Defense Segment	04	206,834	209,072		209,072	230,162		230,162	U
75	0603882C	Ballistic Missile Defense Midcourse Defense Segment	04	862,080	862,080		862,080	828,097		828,097	U
77	0603884C	Ballistic Missile Defense Sensors	04	230,077	230,077		230,077	247,345		247,345	U
78	0603890C	BMD Enabling Programs	04	401,594	408,594		408,594	449,442		449,442	U
79	0603891C	Special Programs - MDA	04	321,607	323,607		323,607	320,190		320,190	U
80	0603892C	AEGIS BMD	04	959,066	959,066		959,066	852,052		852,052	U
81	0603893C	Space Tracking & Surveillance System	04	32,129	32,129		32,129				U
82	0603895C	Ballistic Missile Defense System Space Programs	04	20,690	20,690		20,690				U
83	0603896C	Ballistic Missile Defense Command and Control, Battle Management and Communicati	04	439,617	456,267		456,267	430,115		430,115	U

R-1C1F: FY 2018 President's Budget Request (Published Version), as of May 17, 2017 at 10:40:45

UNCLASSIFIED

Page D-6A



## UNCLASSIFIED

Missile Defense Agency  
FY 2018 President's Budget Request  
Exhibit R-1 FY 2018 President's Budget Request  
Total Obligational Authority  
(Dollars in Thousands)

17 May 2017

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

Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 PB Request with CR Adj Base	FY 2017 Total PB Requests* with CR Adj Base	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj OCO	S e c
84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	47,566	47,776	47,776					U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	46,191	54,750	54,750					U
86	0603906C	Regarding Trench	04	8,918	8,785	8,785					U
87	0603907C	Sea Based X-Band Radar (SBX)	04	81,265	68,787	93,287					U
88	0603913C	Israeli Cooperative Programs	04	267,595	103,835	103,835					U
89	0603914C	Ballistic Missile Defense Test	04	290,267	293,441	293,441					U
90	0603915C	Ballistic Missile Defense Targets	04	517,589	563,576	563,576					U
94	0604115C	Technology Maturation Initiatives	04	24,743	90,266	99,366					U
96	0604181C	Hypersonic Defense	04								U
105	0604873C	Long Range Discrimination Radar (LRDR)	04	132,278	162,012	173,162					U
106	0604874C	Improved Homeland Defense Interceptors	04	282,864	274,148	274,148					U
107	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	20,980	63,444	63,444					U
108	0604878C	Aegis BMD Test	04	78,468	95,012	95,012					U
109	0604879C	Ballistic Missile Defense Sensor Test	04	83,597	83,250	83,250					U
110	0604880C	Land-Based SM-3 (LBSM3)	04	29,288	43,293	43,293					U
111	0604881C	AEGIS SM-3 Block IIA Co-Development	04	165,456	106,038	106,038					U
112	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	54,619	56,481	56,481					U

R-1C1F: FY 2018 President's Budget Request (Published Version), as of May 17, 2017 at 10:40:45

UNCLASSIFIED

## UNCLASSIFIED

Missile Defense Agency  
FY 2018 President's Budget Request  
Exhibit R-1 FY 2018 President's Budget Request  
Total Obligational Authority  
(Dollars in Thousands)

17 May 2017

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

Line No	Program Element Number	Item	Act	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA	FY 2017 Total PB Requests* with CR Adj Base + OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj Base + OCO	FY 2018 Base	FY 2018 OCO	FY 2018 Total	S e c
84	0603898C	Ballistic Missile Defense Joint Warfighter Support	04	47,776	47,776		47,776	48,954		48,954	U
85	0603904C	Missile Defense Integration & Operations Center (MDIOC)	04	54,750	54,750		54,750	53,265		53,265	U
86	0603906C	Regarding Trench	04	8,785	8,785		8,785	9,113		9,113	U
87	0603907C	Sea Based X-Band Radar (SBX)	04	68,787	93,287		93,287	130,695		130,695	U
88	0603913C	Israeli Cooperative Programs	04	103,835	103,835		103,835	105,354		105,354	U
89	0603914C	Ballistic Missile Defense Test	04	293,441	293,441		293,441	305,791		305,791	U
90	0603915C	Ballistic Missile Defense Targets	04	563,576	563,576		563,576	410,425		410,425	U
94	0604115C	Technology Maturation Initiatives	04	90,266	99,366		99,366	128,406		128,406	U
96	0604181C	Hypersonic Defense	04					75,300		75,300	U
105	0604873C	Long Range Discrimination Radar (LRDR)	04	162,012	173,162		173,162	357,659		357,659	U
106	0604874C	Improved Homeland Defense Interceptors	04	274,148	274,148		274,148	465,530		465,530	U
107	0604876C	Ballistic Missile Defense Terminal Defense Segment Test	04	63,444	63,444		63,444	36,239		36,239	U
108	0604878C	Aegis BMD Test	04	95,012	95,012		95,012	134,468		134,468	U
109	0604879C	Ballistic Missile Defense Sensor Test	04	83,250	83,250		83,250	84,239		84,239	U
110	0604880C	Land-Based SM-3 (LBSM3)	04	43,293	43,293		43,293	30,486		30,486	U
111	0604881C	AEGIS SM-3 Block IIA Co-Development	04	106,038	106,038		106,038	9,739		9,739	U
112	0604887C	Ballistic Missile Defense Midcourse Segment Test	04	56,481	56,481		56,481	76,757		76,757	U

R-1C1F: FY 2018 President's Budget Request (Published Version), as of May 17, 2017 at 10:40:45

UNCLASSIFIED

Page D-7A

## UNCLASSIFIED

Missile Defense Agency  
 FY 2018 President's Budget Request  
 Exhibit R-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

17 May 2017

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

Line No	Program Element Number	Item	Act	FY 2016 Base + OCO	FY 2017 PB Request with CR Adj Base	FY 2017 Total PB Requests* with CR Adj Base	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj OCO	S e c
113	0604894C	Multi-Object Kill Vehicle	04		71,513	71,513					U
115	0305103C	Cyber Security Initiative	04	941	969	969					U
116	1206893C	Space Tracking & Surveillance System	04								U
117	1206895C	Ballistic Missile Defense System Space Programs	04								U
		Advanced Component Development And Prototypes		5,898,841	5,661,070	5,733,708					
155	0605502C	Small Business Innovation Research - MDA	06	88,694							U
184	0901598C	Management HQ - MDA	06	35,871	31,160	31,160					U
		Management Support		124,565	31,160	31,160					
Total Missile Defense Agency				6,210,652	5,892,757	5,969,695					

## UNCLASSIFIED

Missile Defense Agency  
 FY 2018 President's Budget Request  
 Exhibit R-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

17 May 2017

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

Line	Program Element No Number	Item	Act	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA	FY 2017 Total PB Requests* with CR Adj Base + OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj Base + OCO	FY 2018 Base	FY 2018 OCO	FY 2018 Total	S e c
113	0604894C	Multi-Object Kill Vehicle	04	71,513	71,513		71,513	6,500		6,500	U
115	0305103C	Cyber Security Initiative	04	969	969		969	986		986	U
116	1206893C	Space Tracking & Surveillance System	04					34,907		34,907	U
117	1206895C	Ballistic Missile Defense System Space Programs	04					16,994		16,994	U
		Advanced Component Development And Prototypes		5,661,070	5,733,708		5,733,708	5,879,210		5,879,210	
155	0605502C	Small Business Innovation Research - MDA	06								U
184	0901598C	Management HQ - MDA	06	31,160	31,160		31,160	29,947		29,947	U
		Management Support		31,160	31,160		31,160	29,947		29,947	
		Total Missile Defense Agency		5,892,757	5,969,695		5,969,695	6,200,711		6,200,711	