

Missile Defense Agency

Report to Congress



Report on Unfunded Priorities of the Missile Defense Agency

March 2019

The estimated cost of this report or study for the Department of Defense is approximately \$14,000 for the 2019 Fiscal Year. This includes \$13,000 in expenses and \$1,050 in DoD labor.
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1. Executive Summary

This report responds to language contained in the National Defense Authorization Act (NDAA) for fiscal year (FY) 2017, as amended. The language requires the Director of the Missile Defense Agency (MDA) “not later than 10 days after the date on which the budget of the President for a fiscal year is submitted to Congress shall submit to the Secretary of Defense and the Chairman of the Joint Chiefs of Staff, and to the congressional defense committees, a report on the unfunded priorities of the Missile Defense Agency.” This report is for FY 2020.

The FY 2020 missile defense program will aim to strengthen and expand the deployment of defenses for our Nation, deployed forces, allies, and international partners against increasingly capable threats. The missile defense program will aim to support the Warfighter and needs of the Combatant Commanders with the development, testing, deployment, and integration of interceptors, sensors, and the command and control, battle management and communications (C2BMC) system for the Ballistic Missile Defense System (BMDS). The FY 2020 budget invests in homeland and regional missile defense priorities and in advanced technology development and future capabilities to counter the proliferation of increasingly complex and diverse threats.

Missile defense remains an important priority for the President and Department of Defense leadership. The BMDS meets today’s threat but requires additional capacity and advanced capability to stay ahead of the evolving threat. Ballistic missile proliferation continues to grow as countries acquire a greater number of ballistic missiles, increasing their range, incorporating BMD countermeasures and making them more complex, survivable, reliable and accurate. As a result, The Missile Defense Agency Priorities are focused on the following to:

- Continue focus on increasing system reliability to build warfighter confidence
- Increase engagement capability and capacity
- Address the advanced threat

2. Report Scope

Section 1696 of Public Law 114-328, the National Defense Authorization Act for fiscal year 2017, as amended in Section 1677 of Public Law 115-232, the National Defense Authorization Act for fiscal year 2019 requires the Director of the Missile Defense Agency to submit to the Secretary of Defense and the Chairman of the Joint Chiefs of Staff, and to the congressional defense committees, a report on the unfunded priorities of the Missile Defense Agency. Specifically, the language below governs the report:

(a) REPORTS. Not later than 10 days after the date on which the budget of the President for a fiscal year is submitted to Congress pursuant to chapter 9 of title 10 section 222b, United States Code, the Director of the Missile Defense Agency shall submit to the Secretary of Defense and the Chairman of the Joint Chiefs of Staff, and to the congressional defense committees, a report on the unfunded priorities of the Missile Defense Agency.

(b) ELEMENTS.

(1) IN GENERAL. Each report under subsection (a) shall specify, for each unfunded priority covered by such report, the following:

(A) A summary description of such priority, including the objectives to be achieved if such priority is funded (whether in whole or in part).

(B) The additional amount of funds recommended in connection with the objectives under subparagraph (A).

(C) Account information with respect to such priority, including the following (as applicable):

(i) Line Item Number (LIN) for applicable procurement accounts.

(ii) Program Element (PE) number for applicable research, development, test, and evaluation accounts.

(iii) Sub-activity group (SAG) for applicable operation and maintenance accounts.

(2) PRIORITIZATION OF PRIORITIES. Each report under sub- section (a) shall present the unfunded priorities covered by such report in order of urgency of priority.

(c) UNFUNDED PRIORITY DEFINED. In this section, the term “unfunded priority”, in the case of a fiscal year, means a program, activity, or mission requirement of the Missile Defense Agency that—

(1) is not funded in the budget of the President for a fiscal year as submitted to Congress pursuant to section 1105 of title 31, United States Code;

(2) is necessary to fulfill a requirement associated with an operational or contingency plan of a combatant command or other validated requirement; and

(3) would have been recommended for funding through the budget referred to in paragraph (1) by the Director of the Missile Defense Agency in connection with the budget if additional resources had been available for the budget to fund the program, activity, or mission requirement.

3. Unfunded Priorities List for the Missile Defense Agency

MDA fully supports the President’s Budget as submitted. The following table provides a description of other MDA priorities that are not requested in the FY 2020 President’s Budget. This request is intended to outline needs that were not included in the official budget submission but that would be vital to MDA if additional funding were to be made available. The funding profiles provide the FY 2020 unfunded amounts. These programs have out year funding profiles, some of which will be significant.

FY20 MDA Unfunded Priorities

Priority	Project Name	Project Description	Program Element / LIN#	Estimated Funding Needed in FY20 (\$000)
1	Hypersonic and Ballistic Tracking Space Sensor	Hypersonic and Ballistic Tracking Space Sensor development	BMD Space Program PE: 1206895C	108,000
2	Classified Program #1	Details at higher classification level	Special Programs PE: 0603891C	135,000
3	Hypersonic Defense Acceleration	Glide Phase Defeat Weapon System	Hypersonic Defense PE: 0604181C	278,419
		Engineering Enablers		57,858
		Leverage and Upgrade Existing Systems		43,942
		Disruptive Technologies for Future Architecture		157,708
		Partnered flight test participation		181,720
4	Directed Energy High Power Laser Scaling	500kw demo FY25	Technology Maturation Initiatives PE: 0604115C	78,000
5	Cybersecurity	Planning, analysis, and assessment to provide cybersecurity assessments of BMD critical infrastructure. Advances Agency's compliance with DOD Cybersecurity Discipline Implementation Plan, to protect MDA IT systems in the highly-contested cybersecurity threat environment.	Aegis BMD PE: 0603892C	8,790
			C2BMC PE: 0603896C	18,850
			Enabling Programs PE: 0603890C	62,942
			BMD Test PE: 0603914C	3,814
			Advanced Concepts PE: 0603176C	4,493
			Midcourse Defense PE: 0603882C	24,110
			BMD Sensors PE: 0603884C	20,294
			STSS PE: 1206893C	500
			BMD Terminal Defense PE: 0603881C	4,000
			BMD Space Program PE: 1206895C	5,000
6	Mobile Sensor Integration	Phase 2: Operational Capability FY24	C2BMC PE: 0603896C	30,000
7	Advanced Discrimination and Countermeasures Mitigation	Provides improved discrimination capabilities and high-fidelity digital modeling and simulation enhancements.	Enabling Programs PE: 0603890C	9,000
			Midcourse Defense PE: 0603882C	6,900
			C2BMC PE: 0603896C	2,000
8	Models and Simulations	Simulation Interface Unit (SIU) refresh / M&S VV&A	Enabling Programs PE: 0603890C	21,300
			BMD Sensors PE: 0603884C	1,500
9	Multi Object Kill Vehicle Risk Reduction	Continues technology risk reduction efforts to ultimately enhance GBI performance with multiple objects from a single interceptor	CKV PE: 0603294C	48,932
10	Left through Right of Launch	Strategy / Integration execution	Enabling Programs PE: 0603890C	5,700
		Tech Development / discovery		37,800
		Test and Integration		15,200
11	THAAD	THAAD Interceptors	Procurement PE: 0208866C Line#: MD07 THAAD	546,273
Total UFR RTC				1,918,045

4. Acronyms

BMD	Ballistic Missile Defense
BMDS	Ballistic Missile Defense System
C2BMC	Command and Control, Battle Management, and Communications
DoD	Department of Defense
FY	Fiscal Year
MDA	Missile Defense Agency
MILCON	Military Construction; Military Construction funding
SSL	Space Sensor Layer
NDAA	National Defense Authorization Act
PE	Program Element
PB	President's Budget
SECDEF	Secretary of Defense
U.S.	United States