



DEPUTY SECRETARY OF DEFENSE  
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WASHINGTON, DC 20301-1010

March 13, 2020  
Incorporating Change 2, August 12, 2022

MEMORANDUM FOR CHIEF MANAGEMENT OFFICER OF THE DEPARTMENT OF  
DEFENSE

SECRETARIES OF THE MILITARY DEPARTMENTS  
CHAIRMAN OF THE JOINT CHIEFS OF STAFF  
UNDER SECRETARIES OF DEFENSE  
CHIEF OF THE NATIONAL GUARD BUREAU  
COMMANDERS OF THE COMBATANT COMMANDS  
GENERAL COUNSEL OF THE DEPARTMENT OF DEFENSE  
DIRECTOR, COST ASSESSMENT AND PROGRAM  
EVALUATION  
INSPECTOR GENERAL OF THE DEPARTMENT OF DEFENSE  
DIRECTOR, OPERATIONAL TEST AND EVALUATION  
CHIEF INFORMATION OFFICER OF THE DEPARTMENT OF  
DEFENSE  
ASSISTANT SECRETARY OF DEFENSE FOR LEGISLATIVE  
AFFAIRS  
ASSISTANT TO THE SECRETARY OF DEFENSE FOR PUBLIC  
AFFAIRS  
DIRECTOR, NET ASSESSMENT  
DIRECTORS OF THE DEFENSE AGENCIES  
DIRECTORS OF THE DOD FIELD ACTIVITIES

SUBJECT: Directive-type Memorandum 20-002 – “Missile Defense System Policies and Governance”

References: See Attachment 1.

Purpose. In accordance with the April 4, 2019 Deputy Secretary of Defense (DepSecDef) Memorandum, this directive-type memorandum (DTM):

- Establishes policy, assigns responsibilities, and prescribes procedures for missile defense system (MDS) research, development, test, and evaluation; procurement; and operations and sustainment in order to reduce risk and promote MDS element transfers to the Military Departments while maintaining agility in accordance with the 2019 Missile Defense Review.
- Updates missile defense governance to account for the elimination of the Under Secretary of Defense for Acquisition, Technology, and Logistics and the creation of the Under Secretary of Defense for Research and Engineering

(USD(R&E)) and the Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)) in accordance with the July 13, 2018 DepSecDef Memorandum.

- Modifies conditions for entry of all MDS elements into different phases of acquisition, per the review directed in the April 4, 2019 DepSecDef Memorandum. The MDS elements that are included in the Ballistic Missile Defense System (BMDS) will continue to be managed under the Missile Defense Agency (MDA) nontraditional acquisition approach as modified by this DTM. The MDS elements that are not within the BMDS will be managed under this DTM and any otherwise applicable legal authorities.
- Updates roles, responsibilities, and authorities of MDA, Military Departments, and OSD in the oversight, management, and execution of these acquisition phases, in accordance with the April 4, 2019 DepSecDef Memorandum.
- Is effective August 21, 2020; it must be incorporated into DoD Directive 5134.09, Missile Defense Agency Instruction 5013.02-INS, and Missile Defense Agency Manual 5013.14-M. This DTM will expire effective March 1, 2023.

Applicability. This DTM applies to:

- OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD.
- MDS elements that have not reached product development decision (PDD) 120 days after congressional notification. MDS elements that have reached PDD will follow individual direction and guidance established specifically for those elements.

Definitions. See Glossary.

Responsibilities. See Attachment 2.

Procedures. See Attachment 3.

Visual Summary of Responsibilities and Procedures. See Attachment 4.

Releasability. Cleared for public release. Available on the Directives Division Website at <https://www.esd.whs.mil/DD/>.

Summary of Change 2. The expiration date of this DTM was extended.

A handwritten signature in blue ink, appearing to be 'R. M. L. A. T.', is centered on the page.

Attachments:

As stated

ATTACHMENT 1

REFERENCES

- Department of Defense, “2019 Missile Defense Review,” January 17, 2019
- Deputy Secretary of Defense Memorandum, “Acquisition Roles and Responsibilities,” December 20, 2019
- Deputy Secretary of Defense Memorandum, “Ballistic Missile Defense System (BMDS) Life Cycle Management Process,” September 25, 2008
- Deputy Secretary of Defense Memorandum, “Establishment of the Office of the Under Secretary of Defense for Research and Engineering and Office of the Under Secretary of Defense for Acquisition and Sustainment,” July 13, 2018
- Deputy Secretary of Defense Memorandum, “Funding Responsibilities for Ballistic Missile Defense System (BMDS) Elements,” June 10, 2011
- Deputy Secretary of Defense Memorandum, “Missile Defense Executive Board (MDEB),” March 15, 2007
- Deputy Secretary of Defense Memorandum, “Task to Review Missile Defense Agency Acquisition Approaches and Programs for Transfer,” April 4, 2019
- DoD Directive 5134.09, “Missile Defense Agency (MDA),” September 17, 2009
- DoD Instruction 5000.02, “Operation of the Defense Acquisition System,” August 10, 2017, as amended
- Joint Publication 3-01, “Countering Air and Missile Threats,” April 21, 2017
- Missile Defense Agency Instruction 5013.02-INS, “Acquisition Management,” August 24, 2013
- Missile Defense Agency Manual 5013.14-M, “Acquisition Plan Development Process,” December 13, 2013
- Public Law 114-328, Section 1687 “National Defense Authorization Act for Fiscal Year 2017,” December 23, 2016
- Public Law 115-91, Section 1676, “National Defense Authorization Act for Fiscal Year 2018,” December 12, 2017
- Public Law 115-232, Section 1681 “National Defense Authorization Act for Fiscal Year 2019,” December 13, 2018
- Under Secretary of Defense for Acquisition, Technology, and Logistics Acquisition Decision Memorandum, “Ballistic Missile Defense System Acquisition Decision Memorandum,” May 8, 2013

ATTACHMENT 2

RESPONSIBILITIES

1. DIRECTOR OF COST ASSESSMENT AND PROGRAM EVALUATION (DCAPE). The DCAPE:

a. Develops an independent cost estimate (ICE) before PDD and production decision (PD), informed by the life cycle cost estimate (LCCE) developed by the Director, MDA, in conjunction with the Secretary of the lead Military Department, for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

b. Identifies, and recommends to the DepSecDef, sources of funding at a funding level consistent with the associated ICE for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

c. Provides guidance and sufficiency review of analyses of alternatives for MDS elements.

2. USD(A&S). The USD(A&S):

a. Unless delegated to the Director, MDA, serves as the decision authority at the Technology Development Decision (TDD), PDD, and PD for MDS elements that, as detailed in DoD Instruction 5000.02:

(1) Exceed the research, development, test, and evaluation dollar threshold for Acquisition Category I Programs; or

(2) May be of special interest.

b. Unless delegated to the Director, MDA, reviews and approves the acquisition strategy (AS) to support TDD, PDD, and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment in accordance with the December 20, 2019 DepSecDef Memorandum.

c. Serves as the Missile Defense Executive Board (MDEB) co-chairman for decisions regarding acquisition and the approval of acquisition and production milestones, in accordance with Section 1681 of Public Law 115-232.

3. USD(R&E). The USD(R&E):

a. Conducts an independent technical risk assessment (ITRA) before PDD and a PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

b. Assesses TDD, PDD, and PD readiness. Raises significant concerns with respect to milestone approval to the DepSecDef.

c. Serves as the MDEB co-chairman for decisions regarding acquisition and the approval of acquisition and production milestones, and the MDEB chairman for all other matters, in accordance with Section 1681 of Public Law 115-232 and Section 1676 of Public Law 115-91.

4. DIRECTOR, MDA. Under the authority, direction, and control of the USD(R&E), the Director, MDA:

a. Serves as decision authority at TDD, PDD, and PD for MDS elements that do not meet the criteria in Paragraph 2.a. of this attachment, or when this authority is delegated by the USD(A&S).

b. In conjunction with the Secretary of the lead Military Department:

(1) Establishes a transfer agreement (TA) before PDD that provides MDS element transfer criteria to a lead Military Department, including funding responsibilities in accordance with the June 10, 2011 DepSecDef Memorandum.

(2) Establishes a hybrid program management office before PDD to facilitate transfer in accordance with the TA and the June 10, 2011 DepSecDef Memorandum. Codifies the hybrid leadership team structure and operation in a memorandum of agreement (MOA).

(3) Develops a LCCE and affordability analysis and provides it to the DCAPE before PDD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

c. Supports the Commander, United States Strategic Command (CDRUSSTRATCOM) in conducting a capability and utility assessment (CUA) before PDD and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

d. In coordination with the Secretary of the lead Military Department, the CDRUSSTRATCOM, and the Combatant Commanders (CCDRs) as applicable, develops a top level requirements document (TLRD) for MDS elements before PDD.

e. Supports the DCAPE in developing an ICE before PDD and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

f. Supports the USD(R&E) in developing an ITRA before PDD and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment. In accordance with the December 20, 2019 DepSecDef Memorandum, follows USD(R&E)-published ITRA policy for MDS elements.

g. In coordination with the Service Acquisition Executives, develops an AS before TDD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment. Updates the AS at PDD and PD, in coordination with the Service Acquisition Executive of the lead Military Department.

h. Notifies the MDEB of pending decisions to enter technology development, product development, or production for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

i. As the DoD Technical Authority for Integrated Air and Missile Defense (IAMD) and in accordance with the May 8, 2013 Under Secretary of Defense for Acquisition, Technology, and Logistics Acquisition Decision Memorandum:

(1) Works closely with the warfighter community (including the CCDRs and the Chairman of the Joint Chiefs of Staff) and the Secretaries of the Military Departments to develop the technical architecture for the MDS and to integrate it into the architecture for IAMD.

(2) Coordinates with the DoD Chief Information Officer to ensure implementation of the joint command and control architecture for the MDS is executed consistent with net-centricity requirements.

5. SECRETARIES OF THE MILITARY DEPARTMENTS. In accordance with the September 25, 2008 DepSecDef Memorandum, the DepSecDef will designate a lead Military Department for MDS elements. The Secretary of the lead Military Department:

a. Supports the CDRUSSTRATCOM in conducting a CUA before PDD and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

b. Supports the Director, MDA in developing a TLRD for MDS elements before PDD.

c. In conjunction with the Director, MDA, develops an LCCE and affordability analysis and provides it to the DCAPE, before PDD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

d. In conjunction with the Director, MDA, establishes, before PDD, a TA that provides criteria for MDS element transfers to a lead Military Department, including funding responsibilities in accordance with the June 10, 2011 DepSecDef Memorandum.

e. Supports the Director, MDA in developing an AS before TDD, to be updated at PDD and PD, for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

f. In conjunction with the Director, MDA, establishes a hybrid program management office before PDD to facilitate transfer in accordance with the TA and the June 10, 2011 DepSecDef Memorandum. Codifies the hybrid leadership team structure and operation in an MOA.

6. CCDRS. The CCDRs:

a. Support the CDRUSSTRATCOM in conducting a CUA before PDD and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.

- b. Support the Director, MDA in developing a TLRD for MDS elements before PDD.

7. CDRUSSTRATCOM. In addition to the responsibilities in Paragraph 6 of this attachment, the CDRUSSTRATCOM, in coordination with the Director, MDA; the Secretary of the lead Military Department; and the CCDRs as applicable, conducts a CUA before PDD and PD for MDS elements that meet the criteria in Paragraph 2.a. of this attachment.



APPENDIX TO ATTACHMENT 2

CHANGES TO RESPONSIBILITIES

Table 1 details changes to the responsibilities described in Attachment 2.

Table 1. Changes to Responsibilities Described in Attachment 2

DTM Paragraph	Description of Change	Original Reference(s), Page No.
1.a.	Adds responsibility to develop ICE before PDD and PD for MDS elements exceeding dollar threshold or of special interest	N/A
1.b.	Adds responsibility to identify and recommend funding sources for MDS elements exceeding dollar threshold or of special interest	N/A
1.c.	Adds responsibility to provide guidance and sufficiency reviews for Analyses of Alternatives	N/A
2.a.	USD(A&S) serves as TDD, PDD, and PD decision authority for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 3
2.b.	Adds responsibility to approve the AS to support TDD, PDD, and PD for MDS elements exceeding dollar threshold or of special interest	N/A
2.c.	Clarifies MDEB chairs for acquisition decisions.	(DoDD 5134.09), p. 3; (Mar 15, 2007 DepSecDef Memo), p. 2
3.a.	Requires an ITRA at PDD and PD, instead of a TRA only at PD, for MDS elements exceeding dollar threshold or of special interest	(MDAI 5013.02-INS), p. 49
3.b.	Adds responsibility to raise significant concerns with respect to milestone approval to the DepSecDef	N/A
3.c.	Clarifies MDEB chair	(DoDD 5134.09), p. 3; (Mar 15, 2007 DepSecDef Memo), p. 2
4.a.	Director, MDA serves as TDD, PDD, and PD decision authority for MDS elements that do not meet dollar threshold and are not of special interest	(DoDD 5134.09), p. 3
4.b.(1)	Requires TA before PDD	(DoDD 5134.09), p. 5
4.b.(2)	Requires establishment of hybrid program office before PDD	(DoDD 5134.09), p. 5
4.b.(3)	Requires LCCE and affordability analysis completion and submission to DCAPE for MDS elements exceeding dollar threshold or of special interest	(MDAI 5013.02-INS), p. 47

Table 1. Changes to Responsibilities Described in Attachment 2, Continued

DTM Paragraph	Description of Change	Original Reference(s), Page No.
4.c.	Specifies that CUA must be completed before PDD and PD for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 9
4.d.	Adds responsibility to develop TLRD before PDD	N/A
4.e.	Adds responsibility to support CAPE ICE for MDS elements exceeding dollar threshold or of special interest	N/A
4.f.	Adds responsibility to support USD(R&E) ITRA for MDS elements exceeding dollar threshold or of special interest, and follow USD(R&E)-published ITRA policy otherwise	N/A
4.g.	Requires AS, developed in coordination with Service Acquisition Executives, before TDD for MDS elements exceeding dollar threshold or of special interest. Requires AS to be updated at PDD and PD, in coordination with Service Acquisition Executive of lead Military Department.	(MDAI 5013.02-INS), p. 44
4.h.	Adds responsibility to provide timely notification to the MDEB of decisions to enter Technology Development, Product Development, or Production for MDS elements exceeding dollar threshold or of special interest	N/A
4.i.	Acknowledges MDA as Technical Authority for IAMD, explicitly mentions MDA will coordinate with Military Departments, and deletes references to ASD(NII)	(DoDD 5134.09), p. 4
5.a.	Adds responsibility to support CUA development before PDD and PD for MDS elements exceeding dollar threshold or of special interest	N/A
5.b.	Adds responsibility to develop TLRD before PDD	N/A
5.c.	Requires LCCE and affordability analysis completion and submission to DCAPE for MDS elements exceeding dollar threshold or of special interest	(MDAI 5013.02-INS), p. 47
5.d.	Requires TA before PDD	(DoDD 5134.09), p. 5
5.e.	Requires AS, developed in coordination with Service Acquisition Executives, before TDD for MDS elements exceeding dollar threshold or of special interest. Requires AS to be updated at PDD and PD, in coordination with the Service Acquisition Executive of lead Military Department.	(MDAI 5013.02-INS), p. 44
5.f.	Requires establishment of hybrid program office before PDD	(DoDD 5134.09), p. 5
6.a	Adds responsibility to support CUA development before PDD and PD for MDS elements exceeding dollar threshold or of special interest	N/A
6.b.	Adds responsibility to support TLRD development before PDD	N/A

Table 1. Changes to Responsibilities Described in Attachment 2, Continued

DTM Paragraph	Description of Change	Original Reference(s), Page No.
7	Specifies that the CUA must be completed before PDD and PD for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 9

ATTACHMENT 3

PROCEDURES

1. MDEB. The MDEB, established in the March 15, 2007 DepSecDef Memorandum:
  - a. Reviews and approves a TLRD, staffed through the MDEB Operational Forces Standing Committee, established in the March 15, 2007 DepSecDef Memorandum, to support PDD for MDS elements that meet the criteria in Paragraph 2.a. of Attachment 2.
  - b. Recommends a lead Military Department for DepSecDef designation before PDD, in accordance with the September 25, 2008 DepSecDef Memorandum.
  
2. TECHNOLOGY DEVELOPMENT PHASE. For an MDS element to enter the technology development phase:
  - a. The Director, MDA must complete an AS in coordination with the Service Acquisition Executives and the USD(A&S) must approve the AS, when the criteria in Paragraph 2.a. of Attachment 2 are met.
  - b. The USD(A&S) must provide approval as the TDD decision authority when the criteria in Paragraph 2.a. of Attachment 2 are met. The Director, MDA, must provide approval as the TDD decision authority when the criteria in Paragraph 2.a. of Attachment 2 are not met.
  
3. PRODUCT DEVELOPMENT PHASE. For an MDS element to enter the product development phase:
  - a. The DepSecDef must designate a lead Military Department.
  - b. The Director, MDA, in conjunction with the Secretary of the lead Military Department, must complete a TA.
  - c. The Director, MDA and the Secretary of the lead Military Department must sign an MOA to establish a hybrid program management office.
  - d. When the criteria in Paragraph 2.a. of Attachment 2 are met:
    - (1) The CDRUSSTRATCOM must complete a CUA in coordination with the Director, MDA; Secretary of the lead Military Department; and the CCDRs as applicable.
    - (2) The USD(R&E) must complete an ITRA.
    - (3) MDEB must approve a TLRD developed by the Director, MDA, in coordination with the Secretary of the lead Military Department, CDRUSSTRATCOM, and the CCDRs as applicable.

(4) The Director, MDA must update the AS in coordination with the Service Acquisition Executive of the lead Military Department and the USD(A&S) must approve the AS.

(5) The Director, MDA must conduct an LCCE and an affordability analysis in conjunction with the Secretary of the lead Military Department, and provide them to the DCAPE before PDD.

(6) The DCAPE must provide an ICE.

(7) The USD(A&S) must provide approval as the PDD decision authority.

e. The Director, MDA must provide approval as the PDD decision authority when the criteria in Paragraph 2.a. of Attachment 2 are not met.

4. PRODUCTION PHASE. For an MDS element to enter the production phase:

a. When the criteria in Paragraph 2.a. of Attachment 2 are met:

(1) The Director, MDA must update the AS in coordination with the Service Acquisition Executive of the lead Military Department and the USD(A&S) must approve the AS.

(2) The CDRUSSTRATCOM must update the CUA in coordination with the Director, MDA; Secretary of the lead Military Department; and the CCDRs as applicable.

(3) The USD(R&E) must update the ITRA.

(4) The DCAPE must provide an updated ICE.

(5) The USD(A&S) must provide approval as the PD decision authority.

b. The Director, MDA must provide approval as the PD decision authority when the criteria in Paragraph 2.a. of Attachment 2 are not met.

5. FUNDING.

a. The MDA and the lead Military Department will manage and execute funding for all MDS elements in accordance with the June 10, 2011 DepSecDef Memorandum and the TA. The level of funding will be consistent with an ICE provided by the DCAPE when the criteria in Paragraph 2.a. of Attachment 2 are met.

b. The DCAPE will identify and recommend to the DepSecDef sources of funding consistent with the ICE for MDS elements meeting the criteria in Paragraph 2.a. of Attachment 2.

APPENDIX TO ATTACHMENT 3

CHANGES TO PROCEDURES

Table 2 details changes to the procedures described in Attachment 3.

Table 2. Changes to Procedures Described in Attachment 3.

DTM Paragraph	Description of Change	Original Reference(s), Page No.
1.a.	Adds responsibility to review/approve TLRD at PDD for MDS elements exceeding dollar threshold or of special interest	N/A
1.b.	Adds responsibility to raise any acquisition decision concerns that could not be resolved by the MDEB to the DepSecDef	(Sep 25, 2008 DepSecDef Memo), p. 6
2.a.	Requires AS, developed in coordination with the Service Acquisition Executives, before TDD for MDS elements exceeding dollar threshold or of special interest. Requires this AS to be approved by USD(A&S).	(MDAI 5013.02-INS), p. 44
2.b.	Requires USD(A&S) approval for TDD as the decision authority for MDS elements exceeding dollar threshold or of special interest; otherwise requires Director, MDA approval.	(DoDD 5134.09), p. 3
3.a.	Requires lead Military Department designation before PDD	(Sep 25, 2008 DepSecDef Memo), p. 6
3.b.	Requires TA before PDD	(DoDD 5134.09), p. 5
3.c.	Requires establishment of hybrid program office before PDD	(DoDD 5134.09), p. 5
3.d.1.	Requires CUA before PDD for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 9
3.d.2.	Adds procedure to complete ITRA before PDD for MDS elements exceeding dollar threshold or of special interest	N/A
3.d.3.	Adds procedure to review and approve TLRD before PDD for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 5
3.d.4.	Updates AS, developed in coordination with the Service Acquisition Executive of the lead Military Department before PDD for MDS elements exceeding dollar threshold or of special interest. Requires this AS to be approved by USD(A&S).	(MDAI 5013.02-INS), p. 44
3.d.5.	Requires LCCE and affordability analysis completion and submission to DCAPE before PDD for MDS elements exceeding dollar threshold or of special interest	(MDAI 5013.02-INS), p. 47
3.d.6.	Adds procedure to develop ICE before PDD for MDS elements exceeding dollar threshold or of special interest	N/A

Table 2. Changes to Procedures Described in Attachment 3, Continued

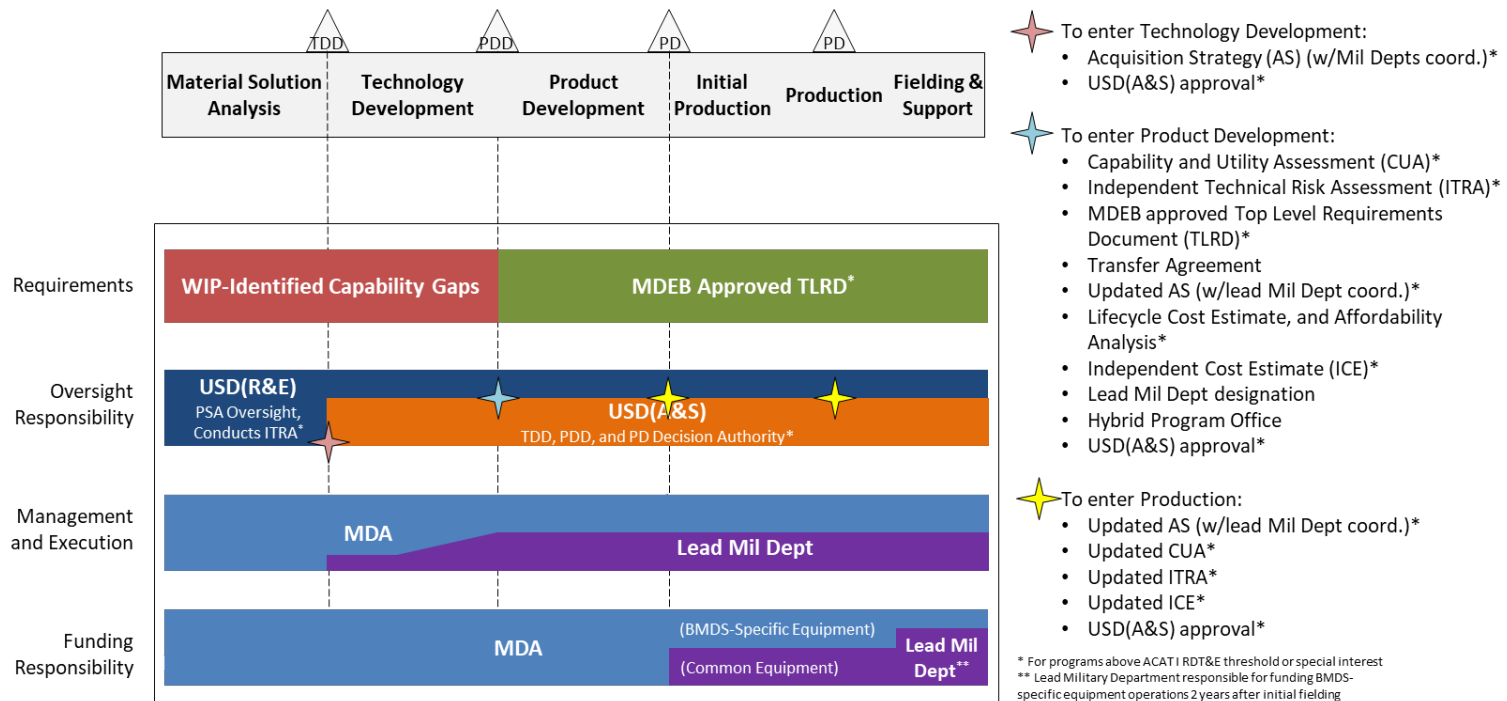
DTM Paragraph	Description of Change	Original Reference(s), Page No.
3.d.7.	Requires USD(A&S) approval for PDD as the decision authority for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 3
3.e.	Requires Director, MDA approval for PDD as the decision authority for MDS elements below dollar threshold and not of special interest	(DoDD 5134.09), p. 3
4.a.1.	Updates AS, developed in coordination with the Service Acquisition Executive of the lead Military Department, before PD for MDS elements exceeding dollar threshold or of special interest. Requires this AS to be approved by USD(A&S).	(MDAI 5013.02-INS), p. 44
4.a.2.	Requires CUA to be updated before PD for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 9
4.a.3.	Adds procedure to update ITRA before PD for MDS elements exceeding dollar threshold or of special interest	N/A
4.a.4.	Adds procedure to update ICE before PD for MDS elements exceeding dollar threshold or of special interest	N/A
4.a.5.	Requires USD(A&S) approval for PD as the decision authority for MDS elements exceeding dollar threshold or of special interest	(DoDD 5134.09), p. 3
4.b.	Requires Director, MDA approval for PD as the decision authority for MDS elements below dollar threshold and not of special interest	(DoDD 5134.09), p. 3
5.a.	Adds procedure to provide funding according to CAPE ICE for MDS elements exceeding dollar threshold or of special interest	N/A
5.b.	Adds procedure to identify and recommend funding sources for MDS elements exceeding dollar threshold or of special interest	N/A

ATTACHMENT 4

VISUAL SUMMARY OF RESPONSIBILITIES AND PROCEDURES

Figure 1 visually summarizes the responsibilities and procedures detailed in Attachments 2 and 3.<sup>1</sup>

Figure 1. Missile Defense Responsibilities and Procedures



<sup>1</sup> Proportions of shared responsibilities are notionally illustrated in this figure. The actual proportions are defined in law, policy, and agreements between MDA and the lead Military Department.



GLOSSARY

PART I. ABBREVIATIONS AND ACRONYMS

AS	acquisition strategy
CCDR	Combatant Commander
CDRUSSTRATCOM	Commander, United States Strategic Command
CUA	capability and utility assessment
DCAPE	Director of Cost Assessment and Program Evaluation
DepSecDef	Deputy Secretary of Defense
DTM	directive-type memorandum
IAMD	integrated air and missile defense
ICE	independent cost estimate
ITRA	independent technical risk assessment
LCCE	life cycle cost estimate
MDA	Missile Defense Agency
MDEB	Missile Defense Executive Board
MDS	missile defense system
MOA	memorandum of agreement
PD	production decision
PDD	product development decision
TA	transfer agreement
TDD	technology development decision
TLRD	top level requirements document
USD(A&S)	Under Secretary of Defense for Acquisition and Sustainment
USD(R&E)	Under Secretary of Defense for Research and Engineering

## PART II. DEFINITIONS

Unless otherwise noted, these terms and definitions are for the purpose of this issuance.

CUA. An assessment showing the relationship between the capabilities provided by the system and the impact that operating that system has on basing, time phased force deployment data, manpower, maintenance, available fuel, and other secondary impacts on the ability of a Combatant Command or Military Department to carry out its mission.

IAMD. Defined in Joint Publication 3-01.

MDS. An evolving, integrated, and interoperable system, comprising multiple missile defense elements that provide a capability to intercept ballistic missiles in flight and also hypersonic missiles in flight. Hypersonic missiles include hypersonic boost-glide vehicle capabilities and conventional prompt strike capabilities, in accordance with Section 1687 of Public Law 114-328, as well as hypersonic cruise missiles.

MDS element. An established program of record that is a component of the MDS.

TLRD. A document defining a tailored set of performance and functionality attributes or parameters unique for each MDS element that quantifies warfighter capability requirements. For example, the TLRD for terrestrial radars may include parameters quantifying the requirements for discrimination, raid capacity, track accuracy, peak and average power, system reliability, and others. The TLRD is derived from required MDS capabilities directed from the following: United States Strategic Command development requirements from the Warfighter Involvement Process (currently the Prioritized Capabilities List), inputs from the Joint Requirements Oversight Council or Joint Urgent Operational Need/Joint Emergent Operational Need processes, Presidential mandates and congressional direction. The TLRD will be described in the MDS Systems Engineering Plan.