

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0603881C, 0604876C	Other Related Program Elements: 0604876C, 0603881C
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**Line Item MDAP/MAIS Code:** 362

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	573	32	18	11	-	11	31	32	48	48	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	7,289.835	380.722	239.994	216.782	-	216.782	447.080	475.739	643.513	656.384	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	0.000	0.000	0.000	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	7,289.835	380.722	239.994	216.782	-	216.782	447.080	475.739	643.513	656.384	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	0.000	0.000	0.000	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>7,289.835</b>	<b>380.722</b>	<b>239.994</b>	<b>216.782</b>	<b>-</b>	<b>216.782</b>	<b>447.080</b>	<b>475.739</b>	<b>643.513</b>	<b>656.384</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	0.000	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	9.710	9.528	11.182	12.336	-	12.336	11.396	11.396	11.051	11.051	Continuing	Continuing
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	12.722	11.898	13.333	19.707	-	19.707	14.422	14.867	13.407	13.675	Continuing	Continuing

**Description:**

Terminal High Altitude Area Defense (THAAD) is an element of the Terminal Defense Segment (TDS) of the Missile Defense System. THAAD enhances the TDS by deepening, complementing, and extending the Missile Defense System battlespace and capability to engage ballistic targets in the late mid-course and terminal phases of their trajectory. THAAD Army Navy / Transportable Radar Surveillance and Control (AN/TPY-2) radar is a surveillance and targeting sensor providing data to the THAAD system to execute intercept missions. The THAAD system, in conjunction with the fielded Phased Array Tracking Radar to Intercept on Target (PATRIOT) system, provides the TDS for the Missile Defense Agency objective of enhancing the Missile Defense System capability. Five major components [Interceptors, Launchers, AN/TPY-2 Radar, THAAD Fire Control and Communication (TFCC) Tactical Station Groups (TSG), and Peculiar Support Equipment including Missile Round Pallet Transportable] comprise the THAAD system.

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**Exhibit P-40, Budget Line Item Justification:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0603881C, 0604876C	<b>Other Related Program Elements:</b> 0604876C, 0603881C
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**Line Item MDAP/MAIS Code:** 362

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	THAAD	P-5a, P-21	A		573 / 7,289.835	32 / 380.722	18 / 239.994	11 / 216.782	- / -	11 / 216.782
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>573 / 7,289.835</b>	<b>32 / 380.722</b>	<b>18 / 239.994</b>	<b>11 / 216.782</b>	<b>- / -</b>	<b>11 / 216.782</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

The Fiscal Year (FY) 2022 budget includes Congressional increase of \$129.179 million for 14 additional THAAD interceptors.

The FY 2023 budget includes Congressional increase of \$165.000 million for 15 additional THAAD interceptors.

The decrease from FY 2023 to FY 2024 reflects a decrease in the THAAD Interceptor procurement quantity from eighteen (18) in FY 2023 to eleven (11) in FY 2024.

The FY 2024 budget request includes eleven (11) THAAD Interceptors, Interceptor Obsolescence mitigation efforts, the Stockpile Reliability Program, and THAAD Battery Ground Component obsolescence modifications.

The Missile Defense Agency (MDA) continues to successfully use a "synergy" lot buy approach to THAAD Interceptor procurement. This approach entails awarding a contract that includes an option for the following fiscal year funding. By utilizing this approach, MDA will achieve savings in material costs in multiple fiscal years. This will result in a higher Interceptor quantity buy at a lower average unit price than if the lot buys were not combined.

Interceptor unit costs are heavily dependent on the total quantity being procured in a specific buy and inflation rates. The interceptor unit costs increased from FY 2022 to FY 2024 due to lower quantities and loss of economy of scale.

Interceptor unit costs vary from year to year based on the quantity being procured.

Two (2) of the seven (7) THAAD Batteries delivered to date were funded with Research Development Test and Evaluation in Program Element 0603881C, thus not included in the costs above.

The FY 2021 budget included a Congressional increase of \$76.325 million for the 8th THAAD Battery which was awarded in April 2022 and is currently on schedule for completion and delivery in 3Q FY 2025.

"Procurement Quantity" and "Flyaway Unit Cost" above represent interceptors only, but the "Net Procurement" cost above includes the costs of all hardware. Prior FYs funding included procurement of ground components, which affected the "Gross Weapon System Unit Cost".

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**Exhibit P-5, Cost Analysis: PB 2024 Missile Defense Agency** **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	573	32	18	11	-	11
Gross/Weapon System Cost (\$ in Millions)	7,289.835	380.722	239.994	216.782	-	216.782
Less PY Advance Procurement (\$ in Millions)	0.000	0.000	0.000	-	-	-
Net Procurement (P-1) (\$ in Millions)	7,289.835	380.722	239.994	216.782	-	216.782
Plus CY Advance Procurement (\$ in Millions)	0.000	0.000	0.000	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>7,289.835</b>	<b>380.722</b>	<b>239.994</b>	<b>216.782</b>	<b>-</b>	<b>216.782</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	12.722	11.898	13.333	19.707	-	19.707

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
8th THAAD Battery	80.012	1	80.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEMTT Trucks	1.004	30	30.108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interceptor <sup>(f)</sup>	9.710	573	5,563.645	9.528	32	304.910	11.182	18	201.281	12.336	11	135.691	-	-	-	12.336	11	135.691
Launcher <sup>(f)</sup>	8.110	36	291.977	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	25.943	9	233.491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TFCC Tactical Station Group <sup>(f)</sup>	10.522	8	84.179	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	6,283.412	-	-	304.910	-	-	201.281	-	-	135.691	-	-	-	-	-	135.691
<i>Subtotal: Hardware Cost</i>	-	-	6,283.412	-	-	304.910	-	-	201.281	-	-	135.691	-	-	-	-	-	135.691
<b>Support Cost</b>																		
JEON	20.970	2	41.940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Obsolescence and Modifications	36.942	9	332.478	56.722	1	56.722	21.082	1	21.082	62.335	1	62.335	-	-	-	62.335	1	62.335
Production Support & Testing	51.823	9	466.408	16.217	1	16.217	17.631	1	17.631	18.756	1	18.756	-	-	-	18.756	1	18.756
Training	18.400	9	165.597	2.873	1	2.873	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	1,006.423	-	-	75.812	-	-	38.713	-	-	81.091	-	-	-	-	-	81.091
<b>Gross/Weapon System Cost</b>	<b>12.722</b>	<b>573</b>	<b>7,289.835</b>	<b>11.898</b>	<b>32</b>	<b>380.722</b>	<b>13.333</b>	<b>18</b>	<b>239.994</b>	<b>19.707</b>	<b>11</b>	<b>216.782</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>19.707</b>	<b>11</b>	<b>216.782</b>

**Remarks:**

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<b>Exhibit P-5, Cost Analysis: PB 2024 Missile Defense Agency</b>		<b>Date:</b> March 2023
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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"Procurement Quantity" above represents interceptors only, but the "Net Procurement" cost above includes the costs of all hardware. Prior FYs funding includes procurement of ground components, which affects the "Gross Weapon System Unit Cost". Support Equipment captures miscellaneous items such as Terminal High Altitude Area Defense (THAAD) Missile Round Pallet-Transportable (MRP-T), THAAD Active Leak Sensor System (TALSS), and Battery Support Center (BSC) that support the THAAD Batteries and varies from year to year.

The FY 2022 budget includes Congressional increase of \$129.179 million for 14 additional THAAD interceptors.

The FY 2023 budget includes Congressional increase of \$165.000 million for 15 additional THAAD interceptors.

The decrease in the Interceptor line above from FY 2023 to FY 2024 reflects a decrease in the THAAD Interceptor procurement quantity from 18 in FY 2023 to 11 in FY 2024.

The increase in the Obsolescence and Modifications line above from FY 2023 to FY 2024 provides an increase in requirements for Interceptor obsolescence and THAAD Battery Ground Component obsolescence modifications.

Interceptor obsolescence encompasses mitigation activities that protect the system design and ensure a producible technical data package. This preserves an affordable future product cost within an acceptable production schedule. Examples of mitigation activities include component replacement parts, materials, qualification, alternative source/parts qualification, and piece part/material bridge buys to support subsequent years' production lots.

THAAD Battery Ground Component obsolescence modifications address weapon system obsolescence, supportability issues, and cyber threats. These modifications will result in a common baseline (Configuration 3) for all THAAD Batteries.

The Stockpile Reliability Program (SRP) encompasses production support, field testing, storage and aging testing, and stockpile reliability testing and analysis for THAAD interceptors. This provides reliability data and analysis which provides warfighter confidence and enables the extension of the Interceptor shelf and service life, resulting in significant cost avoidance.

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2024 Missile Defense Agency** **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Interceptor - Lot 1 <sup>(t)</sup>		2010	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Mar 2011	Jul 2012	26	14.480	Y		Oct 2009
Interceptor - Lot 2 <sup>(t)</sup>		2011	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Mar 2011	Jul 2013	22	12.100	N		Oct 2009
Interceptor - Lot 4 <sup>(t)</sup>		2012	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Aug 2012	Jun 2015	46	11.022	N		Aug 2011
Interceptor - Lot 5 <sup>(t)</sup>		2013	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Sep 2013	Jul 2017	34	11.022	N		Aug 2011
Interceptor - Lot 6 <sup>(t)</sup>		2014	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Dec 2013	Mar 2018	27	11.022	N		Jun 2013
Interceptor - Lot 7 <sup>(t)</sup>		2015	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Dec 2015	Aug 2018	38	10.100	N		Mar 2014
Interceptor - Lot 8 <sup>(t)</sup>		2016	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Dec 2015	Feb 2019	36	10.100	N		Apr 2015
Interceptor - Lot 9 <sup>(t)</sup>		2017	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Mar 2017	Jan 2020	47	9.185	N		May 2016
Interceptor - Lot 10 <sup>(t)</sup>		2018	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Dec 2017	Oct 2020	109	9.169	N		Dec 2016
Interceptor - Lot 11 <sup>(t)</sup>		2019	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Apr 2019	Dec 2021	110	8.410	N		May 2018
Interceptor - Lot 12 <sup>(t)</sup>		2020	Lockheed Martin / Troy, AL	SS / FPIF	MDA, Huntsville, AL	Mar 2020	Mar 2023	39	8.397	N		Oct 2018
Launcher - Lot 1 <sup>(t)</sup>		2010	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	May 2011	Apr 2013	6	9.170	Y		Oct 2009
Launcher - Lot 2 <sup>(t)</sup>		2011	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	May 2011	Oct 2013	6	9.130	Y		Oct 2009
Launcher - Lot 3 <sup>(t)</sup>		2011	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	Jul 2012	May 2014	6	9.130	Y		Aug 2011
Launcher - Lot 4 <sup>(t)</sup>		2012	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	Jul 2012	Nov 2014	6	7.490	Y		Aug 2011
Launcher - Lot 6 <sup>(t)</sup>		2014	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	Aug 2014	Mar 2016	12	9.050	Y		Jun 2013
TFCC Tactical Station Group - Lot 2 <sup>(t)</sup>		2011	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	Mar 2011	May 2013	4	10.100	Y		Oct 2009
TFCC Tactical Station Group - Lot 3 <sup>(t)</sup>		2011	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	Jul 2012	Aug 2014	2	10.100	Y		Aug 2011
TFCC Tactical Station Group - Lot 4 <sup>(t)</sup>		2012	Lockheed Martin / Camden, AR	SS / FFP	MDA, Huntsville, AL	Jul 2012	Oct 2014	2	9.260	Y		Aug 2011

<sup>(t)</sup> indicates the presence of a P-21

**Remarks:**

N/A





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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2013													Fiscal Year 2014													BALANCE				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 2	BAL DUE A S O F 1 O C T	Calendar Year 2013													Calendar Year 2014															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Interceptor - Lot 1																																			
Prior Years Deliveries: 39																																			
	1	2010	MDA	26	1	25	-	-	-	-	-	-	3	6	6	7	3																		0
Interceptor - Lot 2																																			
Prior Years Deliveries: 39																																			
	2	2011	MDA	22	0	22	-	-	-	-	-	-	-	-	-	4	4	4	3	3	3	-	-	-	1									0	
Interceptor - Lot 4																																			
Prior Years Deliveries: 39																																			
	3	2012	MDA	46	0	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	
Interceptor - Lot 5																																			
Prior Years Deliveries: 39																																			
	4	2013	MDA	34	0	34																												34	
Interceptor - Lot 6																																			
Prior Years Deliveries: 39																																			
	5	2014	MDA	27	0	27																												27	
Interceptor - Lot 7																																			
Prior Years Deliveries: 39																																			
	6	2015	MDA	38	0	38																												38	
Interceptor - Lot 8																																			
Prior Years Deliveries: 39																																			
	6	2016	MDA	36	0	36																												36	
Interceptor - Lot 9																																			
Prior Years Deliveries: 39																																			
	7	2017	MDA	47	0	47																												47	
Interceptor - Lot 10																																			
Prior Years Deliveries: 39																																			
	8	2018	MDA	109	0	109																												109	
Interceptor - Lot 11																																			
Prior Years Deliveries: 39																																			
	9	2019	MDA	110	0	110																												110	
Interceptor - Lot 12																																			
Prior Years Deliveries: 39																																			
	10	2020	MDA	39	0	39																												39	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2013													Fiscal Year 2014													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013													Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Launcher - Lot 1																																	
	11	2010	MDA	6	0	6	-	-	-	-	-	-	-	1	2	-	-	3												0			
Launcher - Lot 2																																	
	12	2011	MDA	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1					0				
Launcher - Lot 3																																	
	13	2011	MDA	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1			
Launcher - Lot 4																																	
	14	2012	MDA	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6				
Launcher - Lot 6																																	
	15	2014	MDA	12	0	12																						A -	-	12			
TFCC Tactical Station Group - Lot 2																																	
	16	2011	MDA	4	0	4	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2								0				
TFCC Tactical Station Group - Lot 3																																	
	17	2011	MDA	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0			
TFCC Tactical Station Group - Lot 4																																	
	18	2012	MDA	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015																	Fiscal Year 2016												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015																	Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
Interceptor - Lot 1																																				
Prior Years Deliveries: 39																																				
	1	2010	MDA	26	26	0																													0	
Interceptor - Lot 2																																				
Prior Years Deliveries: 39																																				
	2	2011	MDA	22	22	0																													0	
Interceptor - Lot 4																																				
Prior Years Deliveries: 39																																				
	3	2012	MDA	46	0	46	-	-	-	-	-	-	-	-	3	-	-	-	-	2	7	-	-	-	-	-	-	-	-	-	12	-	-	-	22	
Interceptor - Lot 5																																				
Prior Years Deliveries: 39																																				
	4	2013	MDA	34	0	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34		
Interceptor - Lot 6																																				
Prior Years Deliveries: 39																																				
	5	2014	MDA	27	0	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27		
Interceptor - Lot 7																																				
Prior Years Deliveries: 39																																				
	6	2015	MDA	38	0	38																													38	
Interceptor - Lot 8																																				
Prior Years Deliveries: 39																																				
	6	2016	MDA	36	0	36																													36	
Interceptor - Lot 9																																				
Prior Years Deliveries: 39																																				
	7	2017	MDA	47	0	47																													47	
Interceptor - Lot 10																																				
Prior Years Deliveries: 39																																				
	8	2018	MDA	109	0	109																													109	
Interceptor - Lot 11																																				
Prior Years Deliveries: 39																																				
	9	2019	MDA	110	0	110																													110	
Interceptor - Lot 12																																				
Prior Years Deliveries: 39																																				
	10	2020	MDA	39	0	39																													39	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015														Fiscal Year 2016														BALANCE				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
Launcher - Lot 1																																						
	11	2010	MDA	6	6	0																												0				
Launcher - Lot 2																																						
	12	2011	MDA	6	6	0																												0				
Launcher - Lot 3																																						
	13	2011	MDA	6	5	1	1																											0				
Launcher - Lot 4																																						
	14	2012	MDA	6	0	6	-	1	1	1	1	1	1																					0				
Launcher - Lot 6																																						
	15	2014	MDA	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	1	1	2	1	2
TFCC Tactical Station Group - Lot 2																																						
	16	2011	MDA	4	4	0																														0		
TFCC Tactical Station Group - Lot 3																																						
	17	2011	MDA	2	2	0																															0	
TFCC Tactical Station Group - Lot 4																																						
	18	2012	MDA	2	0	2	1	1																													0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017														Fiscal Year 2018														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Interceptor - Lot 1																																			
Prior Years Deliveries: 39																																			
	1	2010	MDA	26	26	0																												0	
Interceptor - Lot 2																																			
Prior Years Deliveries: 39																																			
	2	2011	MDA	22	22	0																												0	
Interceptor - Lot 4																																			
Prior Years Deliveries: 39																																			
	3	2012	MDA	46	24	22	-	-	-	-	-	-	2	3	9	8																		0	
Interceptor - Lot 5																																			
Prior Years Deliveries: 39																																			
	4	2013	MDA	34	0	34	-	-	-	-	-	-	-	-	4	8	7	1	-	4	-	7	3										0		
Interceptor - Lot 6																																			
Prior Years Deliveries: 39																																			
	5	2014	MDA	27	0	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	12	6	1							0		
Interceptor - Lot 7																																			
Prior Years Deliveries: 39																																			
	6	2015	MDA	38	0	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	6	22			
Interceptor - Lot 8																																			
Prior Years Deliveries: 39																																			
	6	2016	MDA	36	0	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36		
Interceptor - Lot 9																																			
Prior Years Deliveries: 39																																			
	7	2017	MDA	47	0	47							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47			
Interceptor - Lot 10																																			
Prior Years Deliveries: 39																																			
	8	2018	MDA	109	0	109																											109		
Interceptor - Lot 11																																			
Prior Years Deliveries: 39																																			
	9	2019	MDA	110	0	110																											110		
Interceptor - Lot 12																																			
Prior Years Deliveries: 39																																			
	10	2020	MDA	39	0	39																											39		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	A	A	U	J	U	C	O	O	D	A	E	A	A	A	U	U	A	S					
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	G	P					

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Launcher - Lot 1																															
	11	2010	MDA	6	6	0																							0		
Launcher - Lot 2																															
	12	2011	MDA	6	6	0																							0		
Launcher - Lot 3																															
	13	2011	MDA	6	6	0																							0		
Launcher - Lot 4																															
	14	2012	MDA	6	6	0																							0		
Launcher - Lot 6																															
	15	2014	MDA	12	10	2	1	1																					0		
TFCC Tactical Station Group - Lot 2																															
	16	2011	MDA	4	4	0																							0		
TFCC Tactical Station Group - Lot 3																															
	17	2011	MDA	2	2	0																							0		
TFCC Tactical Station Group - Lot 4																															
	18	2012	MDA	2	2	0																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD07 / THAAD **Item Number / Title [DODIC]:** THAAD

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019																Fiscal Year 2020												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019																Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
Interceptor - Lot 1																																				
Prior Years Deliveries: 39																																				
	1	2010	MDA	26	26	0																													0	
Interceptor - Lot 2																																				
Prior Years Deliveries: 39																																				
	2	2011	MDA	22	22	0																													0	
Interceptor - Lot 4																																				
Prior Years Deliveries: 39																																				
	3	2012	MDA	46	46	0																													0	
Interceptor - Lot 5																																				
Prior Years Deliveries: 39																																				
	4	2013	MDA	34	34	0																													0	
Interceptor - Lot 6																																				
Prior Years Deliveries: 39																																				
	5	2014	MDA	27	27	0																													0	
Interceptor - Lot 7																																				
Prior Years Deliveries: 39																																				
	6	2015	MDA	38	16	22	-	4	10	-	8																								0	
Interceptor - Lot 8																																				
Prior Years Deliveries: 39																																				
	6	2016	MDA	36	0	36	-	-	-	-	3	6	3	3	4	5	2	5	1	4															0	
Interceptor - Lot 9																																				
Prior Years Deliveries: 39																																				
	7	2017	MDA	47	0	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	5	-	-	-	-	-	-	-	10			
Interceptor - Lot 10																																				
Prior Years Deliveries: 39																																				
	8	2018	MDA	109	0	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109			
Interceptor - Lot 11																																				
Prior Years Deliveries: 39																																				
	9	2019	MDA	110	0	110						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110			
Interceptor - Lot 12																																				
Prior Years Deliveries: 39																																				
	10	2020	MDA	39	0	39																													39	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S						
							C	O	E	A	E	A	A	A	U	J	U	E	C	O	V	E	E	A	A	A	U	J	J	A	S					
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P						

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Launcher - Lot 1																																			
	11	2010	MDA	6	6	0																											0		
Launcher - Lot 2																																			
	12	2011	MDA	6	6	0																											0		
Launcher - Lot 3																																			
	13	2011	MDA	6	6	0																											0		
Launcher - Lot 4																																			
	14	2012	MDA	6	6	0																											0		
Launcher - Lot 6																																			
	15	2014	MDA	12	12	0																											0		
TFCC Tactical Station Group - Lot 2																																			
	16	2011	MDA	4	4	0																											0		
TFCC Tactical Station Group - Lot 3																																			
	17	2011	MDA	2	2	0																											0		
TFCC Tactical Station Group - Lot 4																																			
	18	2012	MDA	2	2	0																											0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD07 / THAAD **Item Number / Title [DODIC]:** THAAD

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Interceptor - Lot 1																																	
Prior Years Deliveries: 39																																	
	1	2010	MDA	26	26	0																									0		
Interceptor - Lot 2																																	
Prior Years Deliveries: 39																																	
	2	2011	MDA	22	22	0																									0		
Interceptor - Lot 4																																	
Prior Years Deliveries: 39																																	
	3	2012	MDA	46	46	0																									0		
Interceptor - Lot 5																																	
Prior Years Deliveries: 39																																	
	4	2013	MDA	34	34	0																									0		
Interceptor - Lot 6																																	
Prior Years Deliveries: 39																																	
	5	2014	MDA	27	27	0																									0		
Interceptor - Lot 7																																	
Prior Years Deliveries: 39																																	
	6	2015	MDA	38	38	0																									0		
Interceptor - Lot 8																																	
Prior Years Deliveries: 39																																	
	6	2016	MDA	36	36	0																									0		
Interceptor - Lot 9																																	
Prior Years Deliveries: 39																																	
	7	2017	MDA	47	37	10	10																								0		
Interceptor - Lot 10																																	
Prior Years Deliveries: 39																																	
	8	2018	MDA	109	0	109	2	10	8	5	6	8	10	6	-	9	21	10	7	3	4									0			
Interceptor - Lot 11																																	
Prior Years Deliveries: 39																																	
	9	2019	MDA	110	0	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	9	8	7	10	6	8	12	7	35	
Interceptor - Lot 12																																	
Prior Years Deliveries: 39																																	
	10	2020	MDA	39	0	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Launcher - Lot 1																																		
	11	2010	MDA	6	6	0																											0	
Launcher - Lot 2																																		
	12	2011	MDA	6	6	0																											0	
Launcher - Lot 3																																		
	13	2011	MDA	6	6	0																											0	
Launcher - Lot 4																																		
	14	2012	MDA	6	6	0																											0	
Launcher - Lot 6																																		
	15	2014	MDA	12	12	0																											0	
TFCC Tactical Station Group - Lot 2																																		
	16	2011	MDA	4	4	0																											0	
TFCC Tactical Station Group - Lot 3																																		
	17	2011	MDA	2	2	0																											0	
TFCC Tactical Station Group - Lot 4																																		
	18	2012	MDA	2	2	0																											0	

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Interceptor - Lot 1																															
Prior Years Deliveries: 39																															
	1	2010	MDA	26	26	0																						0			
Interceptor - Lot 2																															
Prior Years Deliveries: 39																															
	2	2011	MDA	22	22	0																						0			
Interceptor - Lot 4																															
Prior Years Deliveries: 39																															
	3	2012	MDA	46	46	0																						0			
Interceptor - Lot 5																															
Prior Years Deliveries: 39																															
	4	2013	MDA	34	34	0																						0			
Interceptor - Lot 6																															
Prior Years Deliveries: 39																															
	5	2014	MDA	27	27	0																						0			
Interceptor - Lot 7																															
Prior Years Deliveries: 39																															
	6	2015	MDA	38	38	0																						0			
Interceptor - Lot 8																															
Prior Years Deliveries: 39																															
	6	2016	MDA	36	36	0																						0			
Interceptor - Lot 9																															
Prior Years Deliveries: 39																															
	7	2017	MDA	47	47	0																						0			
Interceptor - Lot 10																															
Prior Years Deliveries: 39																															
	8	2018	MDA	109	109	0																						0			
Interceptor - Lot 11																															
Prior Years Deliveries: 39																															
	9	2019	MDA	110	75	35	9	10	7	-	3	6																0			
Interceptor - Lot 12																															
Prior Years Deliveries: 39																															
	10	2020	MDA	39	0	39	-	-	-	-	-	2	8	8	8	8	5											0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2024 Missile Defense Agency **Date:** March 2023

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17	<b>P-1 Line Item Number / Title:</b> MD07 / THAAD	<b>Item Number / Title [DODIC]:</b> THAAD
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Launcher - Lot 1																																		
	11	2010	MDA	6	6	0																											0	
Launcher - Lot 2																																		
	12	2011	MDA	6	6	0																											0	
Launcher - Lot 3																																		
	13	2011	MDA	6	6	0																											0	
Launcher - Lot 4																																		
	14	2012	MDA	6	6	0																											0	
Launcher - Lot 6																																		
	15	2014	MDA	12	12	0																											0	
TFCC Tactical Station Group - Lot 2																																		
	16	2011	MDA	4	4	0																											0	
TFCC Tactical Station Group - Lot 3																																		
	17	2011	MDA	2	2	0																											0	
TFCC Tactical Station Group - Lot 4																																		
	18	2012	MDA	2	2	0																											0	

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<b>Exhibit P-21, Production Schedule:</b> PB 2024 Missile Defense Agency		<b>Date:</b> March 2023
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 01 / 17		<b>P-1 Line Item Number / Title:</b> MD07 / THAAD
		<b>Item Number / Title [DODIC]:</b> THAAD

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, AL	1	4	8	6	6	16	22	6	4	27	31
2	Lockheed Martin - Troy, AL	1	4	8	6	6	28	34	6	4	27	31
3	Lockheed Martin - Troy, AL	1	4	8	6	11	36	47	6	11	36	47
4	Lockheed Martin - Troy, AL	1	4	8	6	12	37	49	6	12	37	49
5	Lockheed Martin - Troy, AL	1	4	8	6	3	43	46	6	3	43	46
6	Lockheed Martin - Troy, AL	1	4	8	6	12	31	43	6	12	31	43
7	Lockheed Martin - Troy, AL	1	4	8	6	5	34	39	6	5	34	39
8	Lockheed Martin - Troy, AL	1	4	8	6	3	34	37	6	3	34	37
9	Lockheed Martin - Troy, AL	1	4	8	6	3	34	37	6	6	34	40
10	Lockheed Martin - Troy, AL	1	4	8	6	6	31	37	6	6	31	37
11	Lockheed Martin - Camden, AR	1	1	3	6	8	23	31	6	4	21	25
12	Lockheed Martin - Camden, AR	1	1	2	6	8	29	37	6	4	21	25
13	Lockheed Martin - Camden, AR	1	1	2	6	10	22	32	6	4	21	25
14	Lockheed Martin - Camden, AR	1	1	2	6	10	28	38	6	3	21	24
15	Lockheed Martin - Camden, AR	1	1	2	6	6	22	28	6	4	21	25
16	Lockheed Martin - Camden, AR	1	2	2	6	6	26	32	6	4	24	28
17	Lockheed Martin - Camden, AR	1	1	1	6	10	25	35	6	4	24	28
18	Lockheed Martin - Camden, AR	1	1	1	6	10	27	37	6	3	24	27

**Remarks:**

- Max Production rate is 8 at normal capacity.
- FMS deliveries of approximately 4 per month from December 2015 to October 2019 are not included.
- In August 2016, interceptor deliveries were paused in order to resolve a cable connector sub-assembly issue. During this time however, production of other interceptor sub-assemblies continued. Interceptor production resumed in November 2016, and associated deliveries resumed in April 2017. Lockheed Martin worked extended work days and additional shifts in order to surge deliveries through September 2018 in order to complete interceptor deliveries in accordance with current contract requirements.
- Manufacturing lead times can vary due to factors such as managing multiple lot buys concurrently to achieve price discounts, increasing the lead time for the second awarded lot buy.

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- A Lot 4 Interceptor mission computer static random access memory failure, root cause analysis, corrective action, and incorporation of leap second software update resulted in a seven (7) month production delay from November 2014 to June 2015.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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