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**Department of Defense  
Fiscal Year (FY) 2022 Budget Estimates**

May 2021



**Missile Defense Agency**

*Defense-Wide Justification Book Volume 2b of 2*

***Procurement, Defense-Wide***  
**(Includes O&M and MILCON)**

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**Table of Volumes**

|  |          |
|--|----------|
| Chemical and Biological Defense Program.....         | Volume 1 |
| Defense Contract Audit Agency.....                   | Volume 1 |
| Defense Contract Management Agency.....              | Volume 1 |
| Defense Counterintelligence and Security Agency..... | Volume 1 |
| DoD Human Resources Activity.....                    | Volume 1 |
| Defense Information Systems Agency.....              | Volume 1 |
| Defense Logistics Agency.....                        | Volume 1 |
| Defense Media Activity.....                          | Volume 1 |
| Defense POW MIA Accounting Agency.....               | Volume 1 |
| Defense Production Act Purchases.....                | Volume 1 |
| Defense Security Cooperation Agency.....             | Volume 1 |
| Defense Threat Reduction Agency.....                 | Volume 1 |
| Department of Defense Education Activity.....        | Volume 1 |
| Office of the Secretary Of Defense.....              | Volume 1 |
| The Joint Staff.....                                 | Volume 1 |
| United States Special Operations Command.....        | Volume 1 |

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Missile Defense Agency • Budget Estimates FY 2022 • Procurement

**Washington Headquarters Services..... Volume 1**

**Missile Defense Agency..... Volume 2**

**UNCLASSIFIED**

Missile Defense Agency • Budget Estimates FY 2022 • Procurement

**Volume 2b Table of Contents**

Introduction and Explanation of Contents..... Volume 2b - v

Comptroller Exhibit P-1..... Volume 2b - vii

Line Item Table of Contents (by Appropriation then Line Number)..... Volume 2b - xiii

Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 2b - xv

Exhibit P-40s..... Volume 2b - 1

UNCLASSIFIED

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UNCLASSIFIED

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## **Introduction & Explanation of Contents**

The Department of Defense Fiscal Year (FY) 2022 Budget Estimates Submission RDT&E (Includes Procurement, O&M, and MILCON), Defense-wide Volume 2, Missile Defense Agency (MDA) justification materials consists of two books titled Volume 2a and 2b. Justification documents are provided in the books as listed below.

### **Volume 2a**

- R-1 Comptroller Exhibit
- MDA FY 2022 Budget Estimate Overview
- MDA Appropriation Summary
- Acronyms
- RDT&E Exhibits in BA-03, BA-04, and BA-06

### **Volume 2b**

- P-1 Comptroller Exhibit
- MDA Operations and Maintenance Exhibit
- MDA MILCON Exhibits
- MDA Procurement Exhibits

## **Footnotes**

### **FY 2020 Actuals**

Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

### **FY 2021 Enacted**

Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).



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Defense-Wide  
FY 2022 President's Budget  
Exhibit P-1 FY 2022 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

24 May 2021

| Appropriation<br>-----    | FY 2020<br>Actual* | FY 2021<br>Enacted** | FY 2022<br>Request |
|---------------------------|--------------------|----------------------|--------------------|
| -----                     | -----              | -----                | -----              |
| Procurement, Defense-Wide | 1,724,734          | 2,027,594            | 1,249,374          |
| Total Defense-Wide        | 1,724,734          | 2,027,594            | 1,249,374          |

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 24, 2021 at 12:22:07

\*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

\*\* Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

UNCLASSIFIED

Page D-1

|                 |
|-----------------|
| Volume 2b - vii |
|-----------------|

## UNCLASSIFIED

Defense-Wide  
 FY 2022 President's Budget  
 Exhibit P-1 FY 2022 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

24 May 2021

| Organization: Procurement, Defense-Wide<br>----- | FY 2020<br>Actual* | FY 2021<br>Enacted** | FY 2022<br>Request<br>----- |
|--|--------------------|----------------------|-----------------------------|
| Missile Defense Agency, MDA                      | 1,724,734          | 2,027,594            | 1,249,374                   |
| Total  | 1,724,734          | 2,027,594            | 1,249,374                   |

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 24, 2021 at 12:22:07

\*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

\*\* Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

UNCLASSIFIED

Defense-Wide  
FY 2022 President's Budget  
Exhibit P-1 FY 2022 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

24 May 2021

Appropriation: Procurement, Defense-Wide

| Budget Activity<br>-----        | FY 2020<br>Actual*<br>----- | FY 2021<br>Enacted**<br>----- | FY 2022<br>Request<br>----- |
|---------------------------------|-----------------------------|-------------------------------|-----------------------------|
| 01. Major Equipment             | 1,724,734                   | 2,027,594                     | 1,249,374                   |
| Total Procurement, Defense-Wide | 1,724,734                   | 2,027,594                     | 1,249,374                   |

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 24, 2021 at 12:22:07

\*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

\*\* Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

UNCLASSIFIED

Page D-3

Volume 2b - ix

## UNCLASSIFIED

Defense-Wide  
FY 2022 President's Budget  
Exhibit P-1 FY 2022 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

24 May 2021

Appropriation: 0300D Procurement, Defense-Wide

| Line<br>No                              | Item Nomenclature                             | Ident<br>Code | FY 2020<br>Actual* |            | FY 2021<br>Enacted** |           | FY 2022<br>Request |           | S<br>e<br>c |
|---|---|---------------|--------------------|------------|----------------------|-----------|--------------------|-----------|-------------|
|   |   |               | Quantity           | Cost       | Quantity             | Cost      | Quantity           | Cost      |             |
| Budget Activity 01: Major Equipment     |   |               |                    |            |                      |           |                    |           |             |
| Major Equipment, Missile Defense Agency |   |               |                    |            |                      |           |                    |           |             |
| 29                                      | THAAD   | B             | 39                 | 407,203    | 39                   | 578,335   | 18                 | 251,543   | U           |
| 30                                      | Ground Based Midcourse                        | A             | 69                 | (400,471)  |                      | (150,000) |                    |           | U           |
|   | Less: Advance Procurement (PY)                |               |                    | (-115,000) |                      |           |                    |           | U           |
|   |   |               |                    | 285,471    |                      | 150,000   |                    |           |             |
| 31                                      | Aegis BMD                                     | B             | 32                 | (336,374)  | 40                   | (399,920) | 40                 | (394,386) | U           |
|   | Less: Advance Procurement (PY)                |               |                    |            |                      | (-46,024) |                    | (-59,765) | U           |
|   |   |               |                    | 336,374    |                      | 353,896   |                    | 334,621   |             |
| 32                                      | Aegis BMD                                     |               |                    |            |                      |           |                    |           |             |
|   | Advance Procurement (CY)                      |               |                    | 96,995     |                      | 44,901    |                    | 17,493    | U           |
|   | C (FY 2020 for FY 2021) (M)                   |               |                    | (46,024)   |                      |           |                    |           |             |
|   | C (FY 2020 for FY 2022) (M)                   |               |                    | (29,920)   |                      |           |                    |           |             |
|   | C (FY 2020 for FY 2023) (M)                   |               |                    | (21,051)   |                      |           |                    |           |             |
|   | C (FY 2021 for FY 2022) (M)                   |               |                    |            |                      | (29,845)  |                    |           |             |
|   | C (FY 2021 for FY 2023) (M)                   |               |                    |            |                      | (15,056)  |                    |           |             |
|   | C (FY 2022 for FY 2023) (M)                   |               |                    |            |                      |           | (17,493)           |           |             |
| 33                                      | BMDS AN/TPY-2 Radars                          | A             |                    | 10,046     |                      | 243,270   |                    | 2,738     | U           |
| 34                                      | SM-3 IIAs                                     | B             | 7                  | 238,000    | 9                    | 318,322   | 8                  | 295,322   | U           |
| 35                                      | Arrow 3 Upper Tier Systems                    | A             | 1                  | 55,000     | 1                    | 77,000    | 1                  | 62,000    | U           |
| 36                                      | Short Range Ballistic Missile Defense (SRBMD) | A             | 1                  | 50,000     | 1                    | 50,000    | 1                  | 30,000    | U           |
| 37                                      | Defense of Guam Procurement                   | B             |                    |            |                      |           |                    | 40,000    | U           |
| 38                                      | Aegis Ashore Phase III                        | B             |                    | 26,495     |                      | 34,629    |                    | 25,866    | U           |
| 39                                      | Iron Dome                                     | A             | 1                  | 95,000     | 1                    | 73,000    | 1                  | 108,000   | U           |

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 24, 2021 at 12:22:07

\*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

\*\* Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

## UNCLASSIFIED

Defense-Wide  
 FY 2022 President's Budget  
 Exhibit P-1 FY 2022 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

24 May 2021

Appropriation: 0300D Procurement, Defense-Wide

| Line<br>No                      | Item Nomenclature               | Ident<br>Code | FY 2020<br>Actual*<br>Quantity | Cost      | FY 2021<br>Enacted**<br>Quantity | Cost      | FY 2022<br>Request<br>Quantity | Cost      | S<br>e<br>c |
|---------------------------------|---------------------------------|---------------|--------------------------------|-----------|----------------------------------|-----------|--------------------------------|-----------|-------------|
| 40                              | Aegis BMD Hardware and Software | A             | 36                             | 124,150   | 49                               | 104,241   | 14                             | 81,791    | U           |
| Total Major Equipment           |                                 |               |                                | 1,724,734 |                                  | 2,027,594 |                                | 1,249,374 |             |
| Total Procurement, Defense-Wide |                                 |               |                                | 1,724,734 |                                  | 2,027,594 |                                | 1,249,374 |             |

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 24, 2021 at 12:22:07

\*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

\*\* Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

UNCLASSIFIED

Page D-5

Volume 2b - xi

UNCLASSIFIED

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UNCLASSIFIED

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Missile Defense Agency • Budget Estimates FY 2022 • Procurement

Line Item Table of Contents (by Appropriation then Line Number)

*Appropriation 0300D: Procurement, Defense-Wide*

| Line # | BA | BSA | Line Item Number | Line Item Title  | Page            |
|--------|----|-----|------------------|--|-----------------|
| 29     | 01 | 17  | MD07             | THAAD.....   | Volume 2b - 1   |
| 30     | 01 | 17  | MD08             | Ground Based Midcourse.....  | Volume 2b - 23  |
| 31     | 01 | 17  | MD09             | AEGIS BMD.....   | Volume 2b - 37  |
| 32     | 01 | 17  | MD09             | AEGIS BMD, Advance Procurement.....  | Volume 2b - 59  |
| 33     | 01 | 17  | MD11             | BMDs Sensors.....  | Volume 2b - 63  |
| 34     | 01 | 17  | MD14             | SM-3 Block IIA.....  | Volume 2b - 93  |
| 35     | 01 | 17  | MD26             | Arrow 3 Upper Tier System.....   | Volume 2b - 97  |
| 36     | 01 | 17  | MD34             | Short Range Ballistic Missile Defense (SRBMD)(David's Sling Weapon System (DSWS))..... | Volume 2b - 101 |
| 37     | 01 | 17  | MD65             | Defense of Guam Procurement.....   | Volume 2b - 105 |
| 38     | 01 | 17  | MD73             | Aegis Ashore Phase III.....  | Volume 2b - 109 |
| 39     | 01 | 17  | MD83             | Iron Dome.....   | Volume 2b - 119 |
| 40     | 01 | 17  | MD90             | Aegis BMD Hardware and Software.....   | Volume 2b - 123 |

UNCLASSIFIED

UNCLASSIFIED

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Missile Defense Agency • Budget Estimates FY 2022 • Procurement

**Line Item Table of Contents (Alphabetically by Line Item Title)**

| <b>Line Item Title</b>  | <b>Line Item Number</b> | <b>Line #</b> | <b>BA</b> | <b>BSA</b> | <b>Page</b>     |
|---|-------------------------|---------------|-----------|------------|-----------------|
| AEGIS BMD   | MD09                    | 31            | 01        | 17.....    | Volume 2b - 37  |
| AEGIS BMD, Advance Procurement  | MD09                    | 32            | 01        | 17.....    | Volume 2b - 59  |
| Aegis Ashore Phase III  | MD73                    | 38            | 01        | 17.....    | Volume 2b - 109 |
| Aegis BMD Hardware and Software   | MD90                    | 40            | 01        | 17.....    | Volume 2b - 123 |
| Arrow 3 Upper Tier System   | MD26                    | 35            | 01        | 17.....    | Volume 2b - 97  |
| BMDS Sensors  | MD11                    | 33            | 01        | 17.....    | Volume 2b - 63  |
| Defense of Guam Procurement   | MD65                    | 37            | 01        | 17.....    | Volume 2b - 105 |
| Ground Based Midcourse  | MD08                    | 30            | 01        | 17.....    | Volume 2b - 23  |
| Iron Dome   | MD83                    | 39            | 01        | 17.....    | Volume 2b - 119 |
| SM-3 Block IIA  | MD14                    | 34            | 01        | 17.....    | Volume 2b - 93  |
| Short Range Ballistic Missile Defense (SRBMD)(David's Sling Weapon System (DSWS)) | MD34                    | 36            | 01        | 17.....    | Volume 2b - 101 |
| THAAD   | MD07                    | 29            | 01        | 17.....    | Volume 2b - 1   |

**UNCLASSIFIED**

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency | <b>Date:</b> May 2021 |
|---|-----------------------|

|  |  |
|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD |
|--|--|

|  |  |   |
|--|--|---|
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B | <b>Program Elements for Code B Items:</b> 0603881C, 0604876C | <b>Other Related Program Elements:</b> 0603881C, 0604876C |
|--|--|---|

**Line Item MDAP/MAIS Code:** 362

| Resource Summary  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total      |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|------------|
| Procurement Quantity <i>(Units in Each)</i>   | 495         | 39      | 39      | 18           | -           | 18            | -       | -       | -       | -       | Continuing  | Continuing |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  | 6,304.297   | 407.203 | 578.335 | 251.543      | -           | 251.543       | -       | -       | -       | -       | Continuing  | Continuing |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   | 0.000       | 0.000   | 0.000   | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   | 6,304.297   | 407.203 | 578.335 | 251.543      | -           | 251.543       | -       | -       | -       | -       | Continuing  | Continuing |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   | 0.000       | 0.000   | 0.000   | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Total Obligation Authority <i>(\$ in Millions)</i>  | 6,304.297   | 407.203 | 578.335 | 251.543      | -           | 251.543       | -       | -       | -       | -       | Continuing  | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |             |         |         |              |             |               |         |         |         |         |             |            |
| Initial Spares <i>(\$ in Millions)</i>  | 0.000       | -       | -       | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Flyaway Unit Cost <i>(\$ in Millions)</i>   | 9.827       | 8.397   | 9.743   | 9.894        | -           | 9.894         | -       | -       | -       | -       | Continuing  | Continuing |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   | 12.736      | 10.441  | 14.829  | 13.975       | -           | 13.975        | -       | -       | -       | -       | Continuing  | Continuing |

**Description:**

Terminal High Altitude Area Defense (THAAD) is an element of the Terminal Defense Segment (TDS) of the Missile Defense System (MDS). THAAD enhances the TDS by deepening, complementing, and extending the MDS 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 MDS 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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|--|---------------------------------------|--------------------|--|-----------------------|--|---|--|--|--|--|
| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency  |                                       |                    |  |                       |  |   |  | <b>Date:</b> May 2021                        |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency   |                                       |                    |  |                       |  | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD      |  |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B   |                                       |                    | <b>Program Elements for Code B Items:</b> 0603881C, 0604876C |                       |  | <b>Other Related Program Elements:</b> 0603881C, 0604876C |  |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362   |                                       |                    |  |                       |  |   |  |  |  |  |
| <b>Exhibits Schedule</b>   |                                       |                    |  |                       | <b>Prior Years</b>                           | <b>FY 2020</b>  | <b>FY 2021</b>                               | <b>FY 2022 Base</b>                          | <b>FY 2022 OCO</b>                           | <b>FY 2022 Total</b>                         |
| <b>Exhibit Type</b>  | <b>Title*</b>                         | <b>Subexhibits</b> | <b>ID CD</b>   | <b>MDAP/MAIS Code</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b>              | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b> |
| P-5  | THAAD                                 | P-5a, P-21         | B  |                       | 495 / 6,304.297                              | 39 / 407.203  | 39 / 578.335                                 | 18 / 251.543                                 | - / -  | 18 / 251.543                                 |
| <b>P-40</b>  | <b>Total Gross/Weapon System Cost</b> |                    |  |                       | <b>495 / 6,304.297</b>                       | <b>39 / 407.203</b>                                       | <b>39 / 578.335</b>                          | <b>18 / 251.543</b>                          | <b>- / -</b>                                 | <b>18 / 251.543</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.   |                                       |                    |  |                       |  |   |  |  |  |  |
| <p><b>Justification:</b></p> <p>The FY 2021 budget includes Congressional increases of \$76.325 million for the 8th THAAD Battery and \$30.108 million for 30 Heavy Expanded Mobility Tactical Trucks (HEMTT) and a decrease of \$23.494 million due to unit cost growth.</p> <p>The decrease from FY 2021 to FY 2022 budget reflects a decrease in the THAAD Interceptor procurement quantity from 39 in FY 2021 to 18 in FY 2022, a lower requirement for the procurement of required THAAD Battery Ground Component modifications to meet the cyber threat, and a FY 2021 Congressional increase for the 8th THAAD Battery and 30 HEMTT.</p> <p>The FY 2022 budget request includes 18 THAAD Interceptors, the Stockpile Reliability Program, Production and Training Support, Obsolescence mitigation efforts, and the procurement of required THAAD Battery Ground Component modifications to meet the cyber threat.</p> <p>In FY 2022 MDA will continue a "synergy" lot buy approach to THAAD Interceptor purchases. 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 buys were not combined. Depending on the outcome of the synergy buy, THAAD plans to buy to budget such that potentially more interceptors or their enabling hardware items as required could be procured.</p> <p>Interceptor unit costs vary from year to year based on the quantity being procured.</p> <p>MDA's "synergy" buy approach to THAAD purchases of interceptors include the combination of US lots and FMS interceptors when possible.</p> <p>The FY 2021 and FY2022 planned buy is currently being negotiated with the contract award planned in September 2021.</p> <p>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.</p> <p>"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".</p> |                                       |                    |  |                       |  |   |  |  |  |  |

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|---|--|-----------------------------|-----------------------|------------------------------|-----------------------------|-----------------------|--|-----------------------------|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|--|-----------------------|------------------------------|-----------------------------|-----------------------|------------------------------|--|--|
| <b>Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency</b>   |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  | <b>Date:</b> May 2021 |                              |                             |                       |                              |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |  |                             |                       |                              |                             |                       | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD |                             |                       |                              |                             |                       |                              | <b>Item Number / Title [DODIC]:</b><br>THAAD |                       |                              |                             |                       |                              |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B   |  |                             |                       |                              |                             |                       |  |                             |                       | <b>MDAP/MAIS Code:</b>       |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |
| <b>Resource Summary</b>   |  |                             |                       | <b>Prior Years</b>           |                             |                       | <b>FY 2020</b>                                       |                             |                       | <b>FY 2021</b>               |                             |                       | <b>FY 2022 Base</b>          |  |                       | <b>FY 2022 OCO</b>           |                             |                       | <b>FY 2022 Total</b>         |  |  |
| Procurement Quantity <i>(Units in Each)</i>   |  |                             |                       | 495                          |                             |                       | 39   |                             |                       | 39                           |                             |                       | 18                           |  |                       | -                            |                             |                       | 18                           |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  |  |                             |                       | 6,304.297                    |                             |                       | 407.203  |                             |                       | 578.335                      |                             |                       | 251.543                      |  |                       | -                            |                             |                       | 251.543                      |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   |  |                             |                       | 0.000                        |                             |                       | 0.000  |                             |                       | 0.000                        |                             |                       | -                            |  |                       | -                            |                             |                       | -                            |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   |  |                             |                       | 6,304.297                    |                             |                       | 407.203  |                             |                       | 578.335                      |                             |                       | 251.543                      |  |                       | -                            |                             |                       | 251.543                      |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   |  |                             |                       | 0.000                        |                             |                       | 0.000  |                             |                       | 0.000                        |                             |                       | -                            |  |                       | -                            |                             |                       | -                            |  |  |
| <b>Total Obligation Authority <i>(\$ in Millions)</i></b>   |  |                             |                       | <b>6,304.297</b>             |                             |                       | <b>407.203</b>                                       |                             |                       | <b>578.335</b>               |                             |                       | <b>251.543</b>               |  |                       | <b>-</b>                     |                             |                       | <b>251.543</b>               |  |  |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |
| Initial Spares <i>(\$ in Millions)</i>  |  |                             |                       | -                            |                             |                       | -  |                             |                       | -                            |                             |                       | -                            |  |                       | -                            |                             |                       | -                            |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   |  |                             |                       | 12.736                       |                             |                       | 10.441   |                             |                       | 14.829                       |                             |                       | 13.975                       |  |                       | -                            |                             |                       | 13.975                       |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |
| <b>Cost Elements</b>  |  | <b>Prior Years</b>          |                       |                              | <b>FY 2020</b>              |                       |  | <b>FY 2021</b>              |                       |                              | <b>FY 2022 Base</b>         |                       |                              | <b>FY 2022 OCO</b>                           |                       |                              | <b>FY 2022 Total</b>        |                       |                              |  |  |
|   |  | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total Cost<br/>(\$ M)</b>                         | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b>                  | <b>Qty<br/>(Each)</b> | <b>Total Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total Cost<br/>(\$ M)</b> |  |  |
| Hardware Cost   |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |
| Recurring Cost  |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |
| 8th THAAD Battery   |  | -                           | -                     | -                            | -                           | -                     | -  | 76.325                      | 1                     | 76.325                       | -                           | -                     | -                            | -  | -                     | -                            | -                           | -                     | -                            |  |  |
| HEMTT Trucks  |  | -                           | -                     | -                            | -                           | -                     | -  | 1.004                       | 30                    | 30.108                       | -                           | -                     | -                            | -  | -                     | -                            | -                           | -                     | -                            |  |  |
| Interceptor <sup>(†)</sup>  |  | 9.827                       | 495                   | 4,864.538                    | 8.397                       | 39                    | 327.498  | 9.743                       | 39                    | 379.959                      | 9.894                       | 18                    | 178.095                      | -  | -                     | -                            | 9.894                       | 18                    | 178.095                      |  |  |
| Launcher <sup>(†)</sup>   |  | 8.110                       | 36                    | 291.977                      | -                           | -                     | -  | -                           | -                     | -                            | -                           | -                     | -                            | -  | -                     | -                            | -                           | -                     | -                            |  |  |
| Support Equipment   |  | 25.943                      | 9                     | 233.491                      | -                           | -                     | -  | -                           | -                     | -                            | -                           | -                     | -                            | -  | -                     | -                            | -                           | -                     | -                            |  |  |
| TFCC Tactical Station Group <sup>(†)</sup>  |  | 10.522                      | 8                     | 84.179                       | -                           | -                     | -  | -                           | -                     | -                            | -                           | -                     | -                            | -  | -                     | -                            | -                           | -                     | -                            |  |  |
| <i>Subtotal: Recurring Cost</i>   |  | -                           | -                     | 5,474.185                    | -                           | -                     | 327.498  | -                           | -                     | 486.392                      | -                           | -                     | 178.095                      | -  | -                     | -                            | -                           | -                     | 178.095                      |  |  |
| <i>Subtotal: Hardware Cost</i>  |  | -                           | -                     | 5,474.185                    | -                           | -                     | 327.498  | -                           | -                     | 486.392                      | -                           | -                     | 178.095                      | -  | -                     | -                            | -                           | -                     | 178.095                      |  |  |
| Support Cost  |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |
| JEON  |  | 20.970                      | 2                     | 41.940                       | -                           | -                     | -  | -                           | -                     | -                            | -                           | -                     | -                            | -  | -                     | -                            | -                           | -                     | -                            |  |  |
| Obsolescence and Modifications  |  | 32.818                      | 7                     | 229.725                      | 29.038                      | 1                     | 29.038   | 65.774                      | 1                     | 65.774                       | 55.561                      | 1                     | 55.561                       | -  | -                     | -                            | 55.561                      | 1                     | 55.561                       |  |  |
| Production Support & Testing  |  | 57.987                      | 7                     | 405.910                      | 41.614                      | 1                     | 41.614   | 18.612                      | 1                     | 18.612                       | 15.002                      | 1                     | 15.002                       | -  | -                     | -                            | 15.002                      | 1                     | 15.002                       |  |  |
| Training  |  | 21.791                      | 7                     | 152.537                      | 9.053                       | 1                     | 9.053  | 7.557                       | 1                     | 7.557                        | 2.885                       | 1                     | 2.885                        | -  | -                     | -                            | 2.885                       | 1                     | 2.885                        |  |  |
| <i>Subtotal: Support Cost</i>   |  | -                           | -                     | 830.112                      | -                           | -                     | 79.705   | -                           | -                     | 91.943                       | -                           | -                     | 73.448                       | -  | -                     | -                            | -                           | -                     | 73.448                       |  |  |
| <b>Gross/Weapon System Cost</b>   |  | <b>12.736</b>               | <b>495</b>            | <b>6,304.297</b>             | <b>10.441</b>               | <b>39</b>             | <b>407.203</b>                                       | <b>14.829</b>               | <b>39</b>             | <b>578.335</b>               | <b>13.975</b>               | <b>18</b>             | <b>251.543</b>               | <b>-</b>                                     | <b>-</b>              | <b>-</b>                     | <b>13.975</b>               | <b>18</b>             | <b>251.543</b>               |  |  |
| <b>Remarks:</b>   |  |                             |                       |                              |                             |                       |  |                             |                       |                              |                             |                       |                              |  |                       |                              |                             |                       |                              |  |  |

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| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency  |  | <b>Date:</b> May 2021                        |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17   | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD | <b>Item Number / Title [DODIC]:</b><br>THAAD |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B  |  | <b>MDAP/MAIS Code:</b>                       |
| <p>"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.</p> <p>The FY 2021 budget includes Congressional increases of \$76.325 million for the 8th THAAD Battery and \$30.108 million for 30 Heavy Expanded Mobility Tactical Trucks (HEMTT) and a decrease of \$23.494 million due to unit cost growth.</p> <p>The decrease in the Interceptor line above from FY 2021 to FY 2022 reflects a decrease in the THAAD Interceptor procurement quantity from 39 in FY 2021 to 18 in FY 2022.</p> <p>The decrease in the Obsolescence and Modifications line above from FY 2021 to FY 2022 reflects a lower requirement for the procurement of required THAAD Battery Ground Component modifications to meet the cyber threat.</p> <p>The decrease in the Training line above from FY 2021 to FY 2022 reflects the completion of the THAAD Skills Trainer (TST).</p> <p>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.</p> <p>(t) indicates the presence of a P-5a</p> |  |  |

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|---|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Exhibit P-5a, Procurement History and Planning:</b> PB 2022 Missile Defense Agency |  |  |  |  |  |  |  | <b>Date:</b> May 2021                        |  |  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17      |  |  |  | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD |  |  |  | <b>Item Number / Title [DODIC]:</b><br>THAAD |  |  |  |  |

| Cost Elements                                      | O<br>C<br>O | FY   | Contractor and Location      | Method/Type<br>or<br>Funding Vehicle | Location of PCO     | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each) | Unit Cost<br>(\$ M) | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
|--|-------------|------|------------------------------|--------------------------------------|---------------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| Interceptor - Lot 1 <sup>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</sup>                |             | 2019 | Lockheed Martin / Troy, AL   | SS / FPIF                            | MDA, Huntsville, AL | Apr 2019      | Feb 2022                     | 110           | 8.410               | N                      |                               | May 2018          |
| Launcher - Lot 1 <sup>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</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>(†)</sup> |             | 2012 | Lockheed Martin / Camden, AR | SS / FFP                             | MDA, Huntsville, AL | Jul 2012      | Oct 2014                     | 2             | 9.260               | Y                      |                               | Aug 2011          |

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

**Remarks:**

Lot 3 Interceptors were removed due to a Congressional Mark in FY 2011. Lot numbers relate to groupings in fiscal years and no Launcher or Tactical Fire Control and Communication (TFCC) Tactical Station Groups (TSGs) were scheduled for procurement in FY 2013, therefore Lot 5 is an interceptor only Lot. Delivery of Battery 3 completed in FY 2013. Delivery of Battery 4 completed in FY 2014. Delivery of Battery 5 completed in FY 2015. Delivery of Battery 6 completed in FY 2016. Delivery of Battery 7 completed in FY 2017. Concurrent with the Lot 4, 5, and 6 (FY 2012-FY 2014) U.S. procurements, MDA THAAD is executing a Foreign Military Sales (FMS) Case for two (2) Batteries and 192 Interceptors. The magnitude of the USG and FMS combined buy reduced the unit price for those Lots, and an overlap in period of performance with FMS interceptors also benefited the unit price for Lots 7 and 8 (FY 2015 and FY 2016).

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             | Date: May 2021                        |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|---|------------------|------|---------|-------------|---|------------------------------|------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|-----|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD07 / THAAD |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]:<br>THAAD |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |   |                              | Fiscal Year 2011 |             |             |   |             |             |             |             |             |             | Fiscal Year 2012 |             |             |                                       |             |             |             |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |     |  |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>OCT<br>2010 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2011                            |             |             |             |             |             |             |                  |             |             | Calendar Year 2012                    |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V                           | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G |                                 | S<br>E<br>P |     |  |
| Interceptor - Lot 1   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 1                | 2010 | MDA     | 26          | 0   | 26                           |                  |             |             |   |             | A -         | -           | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | 1           | -                               | -           | 25  |  |
| Interceptor - Lot 2   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 2                | 2011 | MDA     | 22          | 0   | 22                           |                  |             |             |   |             | A -         | -           | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | -           | 22  |  |
| Interceptor - Lot 4   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 3                | 2012 | MDA     | 46          | 0   | 46                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             | A -                             | -           | 46  |  |
| Interceptor - Lot 5   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 4                | 2013 | MDA     | 34          | 0   | 34                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 34  |  |
| Interceptor - Lot 6   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 5                | 2014 | MDA     | 27          | 0   | 27                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 27  |  |
| Interceptor - Lot 7   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 6                | 2015 | MDA     | 38          | 0   | 38                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 38  |  |
| Interceptor - Lot 8   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 6                | 2016 | MDA     | 36          | 0   | 36                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 36  |  |
| Interceptor - Lot 9   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 7                | 2017 | MDA     | 47          | 0   | 47                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 47  |  |
| Interceptor - Lot 10  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 8                | 2018 | MDA     | 109         | 0   | 109                          |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 109 |  |
| Interceptor - Lot 11  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 9                | 2019 | MDA     | 110         | 0   | 110                          |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 110 |  |
| Launcher - Lot 1  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 10               | 2010 | MDA     | 6           | 0   | 6                            |                  |             |             |   |             |             | A -         | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | -           | 6   |  |
| Launcher - Lot 2  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 11               | 2011 | MDA     | 6           | 0   | 6                            |                  |             |             |   |             |             | A -         | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | -           | 6   |  |
| Launcher - Lot 3  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 12               | 2011 | MDA     | 6           | 0   | 6                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             | A -         | -                               | -           | 6   |  |
| Launcher - Lot 4  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 13               | 2012 | MDA     | 6           | 0   | 6                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             | A -         | -                               | -           | 6   |  |
| Launcher - Lot 6  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 14               | 2014 | MDA     | 12          | 0   | 12                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             | 12  |  |
| TFCC Tactical Station Group - Lot 2                                       |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   | 15               | 2011 | MDA     | 4           | 0   | 4                            |                  |             |             |   |             |             | A -         | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | -           | 4   |  |
| TFCC Tactical Station Group - Lot 3                                       |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |                                 |             |     |  |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V                           | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |             |     |  |



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|---|------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|--|--|
| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |      |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     | Date: May 2021                        |     |     |     |     |     |     |         |     |     |     |     |  |  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |      |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |         |     |     |     |     |  |  |
| Cost Elements<br>(Units in Each)  |      |      |         |          |                            |                     | Fiscal Year 2011   |     |     |   |     |     |     |     |     |     | Fiscal Year 2012   |     |     |                                       |     |     |     |     |     |     | BALANCE |     |     |     |     |  |  |
| OCO   | MFR# | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2010 | BAL DUE AS OF 1 OCT | Calendar Year 2011 |     |     |   |     |     |     |     |     |     | Calendar Year 2012 |     |     |                                       |     |     |     |     |     |     |         |     |     |     |     |  |  |
|   |      |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY |         | JUN | JUL | AUG | SEP |  |  |
|   | 16   | 2011 | MDA     | 2        | 0                          | 2                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |                                       |     |     |     | A - | -   | -   | 2       |     |     |     |     |  |  |
| TFCC Tactical Station Group - Lot 4                                       |      |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |         |     |     |     |     |  |  |
|   | 17   | 2012 | MDA     | 2        | 0                          | 2                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |                                       |     |     |     | A - | -   | -   | 2       |     |     |     |     |  |  |
|   |      |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN     | JUL | AUG | SEP |     |  |  |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             | Date: May 2021                        |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|---|------------------|------|---------|-------------|--|------------------------------|------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|---|---|----|---|---|----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD07 / THAAD |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]:<br>THAAD |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |  |                              | Fiscal Year 2013 |             |             |   |             |             |             |             |             |             | Fiscal Year 2014 |             |             |                                       |             |             |             |             |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |   |   |    |   |   |    |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2012 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2013                            |             |             |             |             |             |             |                  |             |             | Calendar Year 2014                    |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   |                  |      |         |             |  |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V                           | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                                 |   |   |    |   |   |    |
| Interceptor - Lot 1   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 1                | 2010 | MDA     |             | 26                                     | 1                            | 25               | -           | -           | -   | -           | -           | 3           | 6           | 6           | 7           | 3                |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 | 0 |   |    |   |   |    |
| Interceptor - Lot 2   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 2                | 2011 | MDA     |             | 22                                     | 0                            | 22               | -           | -           | -   | -           | -           | -           | -           | -           | -           | 4                | 4           | 4           | 3                                     | 3           | 3           | -           | -           | -           | 1           |             |             |             |             |                                 |   | 0 |    |   |   |    |
| Interceptor - Lot 4   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 3                | 2012 | MDA     |             | 46                                     | 0                            | 46               | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 46                              |   |   |    |   |   |    |
| Interceptor - Lot 5   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 4                | 2013 | MDA     |             | 34                                     | 0                            | 34               |             |             |   |             |             |             |             |             |             |                  | A           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | - | - | 34 |   |   |    |
| Interceptor - Lot 6   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 5                | 2014 | MDA     |             | 27                                     | 0                            | 27               |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             | A           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | - | - | -  | - | - | 27 |
| Interceptor - Lot 7   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 6                | 2015 | MDA     |             | 38                                     | 0                            | 38               |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             | 38                              |   |   |    |   |   |    |
| Interceptor - Lot 8   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 6                | 2016 | MDA     |             | 36                                     | 0                            | 36               |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             | 36                              |   |   |    |   |   |    |
| Interceptor - Lot 9   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 7                | 2017 | MDA     |             | 47                                     | 0                            | 47               |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             | 47                              |   |   |    |   |   |    |
| Interceptor - Lot 10  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 8                | 2018 | MDA     |             | 109                                    | 0                            | 109              |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             | 109                             |   |   |    |   |   |    |
| Interceptor - Lot 11  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 9                | 2019 | MDA     |             | 110                                    | 0                            | 110              |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             | 110                             |   |   |    |   |   |    |
| Launcher - Lot 1  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 10               | 2010 | MDA     |             | 6                                      | 0                            | 6                | -           | -           | -   | -           | -           | -           | 1           | 2           | -           | -                | 3           |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   | 0 |    |   |   |    |
| Launcher - Lot 2  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 11               | 2011 | MDA     |             | 6                                      | 0                            | 6                | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                | -           | 1           | 1                                     | 1           | 1           | 1           | 1           | 1           |             |             |             |             |             |                                 | 0 |   |    |   |   |    |
| Launcher - Lot 3  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 12               | 2011 | MDA     |             | 6                                      | 0                            | 6                | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | 1           | 1           | 1           | 1           | 1           | 1                               |   |   |    |   |   |    |
| Launcher - Lot 4  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 13               | 2012 | MDA     |             | 6                                      | 0                            | 6                | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                                     | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | 6                               |   |   |    |   |   |    |
| Launcher - Lot 6  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 14               | 2014 | MDA     |             | 12                                     | 0                            | 12               |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             | A                               | - | - | 12 |   |   |    |
| TFCC Tactical Station Group - Lot 2                                       |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   | 15               | 2011 | MDA     |             | 4                                      | 0                            | 4                | -           | -           | -   | -           | -           | -           | 1           | 1           | -           | -                | -           | -           | -                                     | 2           |             |             |             |             |             |             |             |             |             |                                 | 0 |   |    |   |   |    |
| TFCC Tactical Station Group - Lot 3                                       |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |                                       |             |             |             |             |             |             |             |             |             |             |                                 |   |   |    |   |   |    |
|   |                  |      |         |             |  |                              |                  | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C                                   | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L      | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T                           | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |   |   |    |   |   |    |

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|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|---|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |     |   |  |         |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2013   |     |     |   |     |     |     |     |     |     |     |     |     | Fiscal Year 2014   |     |     |                                       |     |     |     |     |     |     |     |   |  | BALANCE |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2012 | BAL DUE AS OF 1 OCT | Calendar Year 2013 |     |     |   |     |     |     |     |     |     |     |     |     | Calendar Year 2014 |     |     |                                       |     |     |     |     |     |     |     |   |  |         |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV                | DEC | JAN | FEB                                   | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |  |         |
|   | 16    | 2011 | MDA     | 2        | 0                          | 2                   | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -                                     | -   | -   | -   | -   | -   | 1   | 1   | 0 |  |         |
| TFCC Tactical Station Group - Lot 4                                       |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |   |  |         |
|   | 17    | 2012 | MDA     | 2        | 0                          | 2                   | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -                                     | -   | -   | -   | -   | -   | -   | -   | 2 |  |         |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV                | DEC | JAN | FEB                                   | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |  |         |

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|---|------------------|------|---------|-------------|---|------------------------------|------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|---------------------------------------|--------------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---------------------------------|-----|----|---|---|----|---|----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD07 / THAAD |             |             |             |             |             |             |             |                  |             | Item Number / Title [DODIC]:<br>THAAD |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |      |         |             |   |                              | Fiscal Year 2015 |             |             |   |             |             |             |             |             |             |             | Fiscal Year 2016 |             |                                       |                    |             |                |             |             |             |             |             |             |             |   | B<br>A<br>L<br>A<br>N<br>C<br>E |     |    |   |   |    |   |    |
| O<br>C<br>C<br>#  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>O<br>C<br>T<br>2014 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2015                            |             |             |             |             |             |             |             |                  |             |                                       | Calendar Year 2016 |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P      | O<br>C<br>T | N<br>O<br>V                           | D<br>E<br>C        | J<br>A<br>N | F<br>E<br>B    | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |                                 |     |    |   |   |    |   |    |
| Interceptor - Lot 1   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 1                | 2010 | MDA     |             | 26  | 26                           | 0                |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 0   |    |   |   |    |   |    |
| Interceptor - Lot 2   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 2                | 2011 | MDA     |             | 22  | 22                           | 0                |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 0   |    |   |   |    |   |    |
| Interceptor - Lot 4   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 3                | 2012 | MDA     |             | 46  | 0                            | 46               | -           | -           | -   | -           | -           | -           | -           | -           | 3           | -           | -                | -           | -                                     | -                  | 2           | 7              | -           | -           | -           | -           | -           | -           | 12          | - | -                               | -   | 22 |   |   |    |   |    |
| Interceptor - Lot 5   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 4                | 2013 | MDA     |             | 34  | 0                            | 34               | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -                | -           | -                                     | -                  | -           | -              | -           | -           | -           | -           | -           | -           | -           | - | -                               | 34  |    |   |   |    |   |    |
| Interceptor - Lot 6   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 5                | 2014 | MDA     |             | 27  | 0                            | 27               | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -                | -           | -                                     | -                  | -           | -              | -           | -           | -           | -           | -           | -           | -           | - | -                               | 27  |    |   |   |    |   |    |
| Interceptor - Lot 7   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 6                | 2015 | MDA     |             | 38  | 0                            | 38               |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    | A -         | -              | -           | -           | -           | -           | -           | -           | -           | - | -                               | -   | -  | - | - | 38 |   |    |
| Interceptor - Lot 8   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 6                | 2016 | MDA     |             | 36  | 0                            | 36               |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    | A -         | -              | -           | -           | -           | -           | -           | -           | -           | - | -                               | -   | -  | - | - | -  | - | 36 |
| Interceptor - Lot 9   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 7                | 2017 | MDA     |             | 47  | 0                            | 47               |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 47  |    |   |   |    |   |    |
| Interceptor - Lot 10  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 8                | 2018 | MDA     |             | 109   | 0                            | 109              |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 109 |    |   |   |    |   |    |
| Interceptor - Lot 11  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 9                | 2019 | MDA     |             | 110   | 0                            | 110              |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 110 |    |   |   |    |   |    |
| Launcher - Lot 1  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 10               | 2010 | MDA     |             | 6   | 6                            | 0                |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 0   |    |   |   |    |   |    |
| Launcher - Lot 2  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 11               | 2011 | MDA     |             | 6   | 6                            | 0                |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 0   |    |   |   |    |   |    |
| Launcher - Lot 3  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 12               | 2011 | MDA     |             | 6   | 5                            | 1                | 1           |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     | 0  |   |   |    |   |    |
| Launcher - Lot 4  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 13               | 2012 | MDA     |             | 6   | 0                            | 6                | -           | 1           | 1   | 1           | 1           | 1           | 1           |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 0   |    |   |   |    |   |    |
| Launcher - Lot 6  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 14               | 2014 | MDA     |             | 12  | 0                            | 12               | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -                | -           | -                                     | -                  | -           | -              | 2           | 2           | 1           | 1           | 1           | 2           | 1           |   | 2                               |     |    |   |   |    |   |    |
| TFCC Tactical Station Group - Lot 2                                       |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   | 15               | 2011 | MDA     |             | 4   | 4                            | 0                |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 | 0   |    |   |   |    |   |    |
| TFCC Tactical Station Group - Lot 3                                       |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |                  |             |                                       |                    |             |                |             |             |             |             |             |             |             |   |                                 |     |    |   |   |    |   |    |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P      | O<br>C<br>T | N<br>O<br>V                           | D<br>E<br>C        | J<br>A<br>N | F<br>E<br>B    | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |                                 |     |    |   |   |    |   |    |

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

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|---|------------------|------|---------|-------------|---|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|---------------------------------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|---|---|---|-----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD07 / THAAD |             |             |             |             |             |             |             |                    |             | Item Number / Title [DODIC]:<br>THAAD |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |   |                              | Fiscal Year 2017   |             |             |   |             |             |             |             |             |             |             | Fiscal Year 2018   |             |                                       |             |             |                |             |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |   |   |   |     |
| O<br>C<br>C<br>#  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>O<br>C<br>T<br>2<br>0<br>1<br>6 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2017 |             |             |   |             |             |             |             |             |             |             | Calendar Year 2018 |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   |                  |      |         |             |   |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P        | O<br>C<br>T | N<br>O<br>V                           | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B    | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                                 |   |   |   |     |
| Interceptor - Lot 1   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 1                | 2010 | MDA     |             | 26  | 26                           | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Interceptor - Lot 2   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 2                | 2011 | MDA     |             | 22  | 22                           | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Interceptor - Lot 4   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 3                | 2012 | MDA     |             | 46  | 24                           | 22                 | -           | -           | -   | -           | -           | -           | 2           | 3           | 9           | 8           |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Interceptor - Lot 5   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 4                | 2013 | MDA     |             | 34  | 0                            | 34                 | -           | -           | -   | -           | -           | -           | -           | -           | 4           | 8           | 7                  | 1           | -                                     | 4           | -           | 7              | 3           |             |             |             |             |             |             | 0                               |   |   |   |     |
| Interceptor - Lot 6   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 5                | 2014 | MDA     |             | 27  | 0                            | 27                 | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -                  | -           | -                                     | -           | -           | -              | 8           | 12          | 6           | 1           |             |             |             | 0                               |   |   |   |     |
| Interceptor - Lot 7   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 6                | 2015 | MDA     |             | 38  | 0                            | 38                 | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -                  | -           | -                                     | -           | -           | -              | -           | -           | -           | -           | -           | 10          | 6           | 22                              |   |   |   |     |
| Interceptor - Lot 8   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 6                | 2016 | MDA     |             | 36  | 0                            | 36                 | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -                  | -           | -                                     | -           | -           | -              | -           | -           | -           | -           | -           | -           | -           | 36                              |   |   |   |     |
| Interceptor - Lot 9   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 7                | 2017 | MDA     |             | 47  | 0                            | 47                 |             |             |   |             |             | A           | -           | -           | -           | -           | -                  | -           | -                                     | -           | -           | -              | -           | -           | -           | -           | -           | -           | -           | 47                              |   |   |   |     |
| Interceptor - Lot 10  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 8                | 2018 | MDA     |             | 109   | 0                            | 109                |             |             |   |             |             |             |             |             |             |             |                    |             |                                       | A           | -           | -              | -           | -           | -           | -           | -           | -           | -           | -                               | - | - | - | 109 |
| Interceptor - Lot 11  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 9                | 2019 | MDA     |             | 110   | 0                            | 110                |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 110         |                                 |   |   |   |     |
| Launcher - Lot 1  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 10               | 2010 | MDA     |             | 6   | 6                            | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Launcher - Lot 2  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 11               | 2011 | MDA     |             | 6   | 6                            | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Launcher - Lot 3  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 12               | 2011 | MDA     |             | 6   | 6                            | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Launcher - Lot 4  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 13               | 2012 | MDA     |             | 6   | 6                            | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| Launcher - Lot 6  |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 14               | 2014 | MDA     |             | 12  | 10                           | 2                  | 1           | 1           |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| TFCC Tactical Station Group - Lot 2                                       |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   | 15               | 2011 | MDA     |             | 4   | 4                            | 0                  |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             | 0           |                                 |   |   |   |     |
| TFCC Tactical Station Group - Lot 3                                       |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |             |                    |             |                                       |             |             |                |             |             |             |             |             |             |             |                                 |   |   |   |     |
|   |                  |      |         |             |   |                              |                    | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C                                   | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T                           | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N    | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |   |   |   |     |

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|---|-------|------|---------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|--|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |     |     |     |         |     |  |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2017                              |     |     |     |     |     |     |     |     |     | Fiscal Year 2018   |     |     |                                       |     |     |     |     |     |     |     |     |     | BALANCE |     |  |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | Calendar Year 2017                            |     |     |     |     |     |     |     |     |     | Calendar Year 2018 |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  |   |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |  |   |
|   | 16    | 2011 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  | 0 |
| TFCC Tactical Station Group - Lot 4                                       |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  |   |
|   | 17    | 2012 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  | 0 |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |  |   |

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Page 14 of 21

P-1 Line #29

Volume 2b - 14



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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |     |     |     | Date: May 2021                        |     |     |     |     |     |     |     |     |     |     |  |  |         |  |  |  |
|---|-------|------|---------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|---------|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |     |     |     |     |     |     | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |     |     |     |     |  |  |         |  |  |  |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2019                              |     |     |     |     |     |     |     |     |     |     |     |     | Fiscal Year 2020                      |     |     |     |     |     |     |     |     |     |     |  |  | BALANCE |  |  |  |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | Calendar Year 2019                            |     |     |     |     |     |     |     |     |     |     |     |     | Calendar Year 2020                    |     |     |     |     |     |     |     |     |     |     |  |  |         |  |  |  |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |         |  |  |  |
|   | 16    | 2011 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |     |     |     |                                       |     |     |     |     |     |     |     |     |     |     |  |  | 0       |  |  |  |
| TFCC Tactical Station Group - Lot 4                                       |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |     |     |     |                                       |     |     |     |     |     |     |     |     |     |     |  |  |         |  |  |  |
|   | 17    | 2012 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |     |     |     |                                       |     |     |     |     |     |     |     |     |     |     |  |  | 0       |  |  |  |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |         |  |  |  |

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|---|-------|------|---------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |     |     |     |     |     |                    | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |     |     |     |     |         |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2021                              |     |     |     |     |     |     |     |     |     |     |     | Fiscal Year 2022   |                                       |     |     |     |     |     |     |     |     |     |     | BALANCE |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021                            |     |     |     |     |     |     |     |     |     |     |     | Calendar Year 2022 |                                       |     |     |     |     |     |     |     |     |     |     |         |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |
|   | 16    | 2011 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |     |     |                    |                                       |     |     |     |     |     |     |     |     |     |     | 0       |
| TFCC Tactical Station Group - Lot 4                                       |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |     |     |                    |                                       |     |     |     |     |     |     |     |     |     |     |         |
|   | 17    | 2012 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |     |     |                    |                                       |     |     |     |     |     |     |     |     |     |     | 0       |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |

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|---|------|------|---------|---------|----------------------------|---------------------|------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|------------------|-----|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|---|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |      |      |         |         |                            |                     |                  |     |     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |                  |     |     | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |     |     |     |         |     |   |  |
| Cost Elements<br><i>(Units in Each)</i>                                   |      |      |         |         |                            |                     | Fiscal Year 2023 |     |     |   |     |     |     |     |     |     | Fiscal Year 2024 |     |     |                                       |     |     |     |     |     |     |     |     |     | BALANCE |     |   |  |
| OCO   | MFR# | FY   | SERVICE | PROCQTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT |                  |     |     | Calendar Year 2023                            |     |     |     |     |     |     |                  |     |     | Calendar Year 2024                    |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   |      |      |         |         |                            |                     | OC               | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG              | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |   |  |
| Interceptor - Lot 1   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 1    | 2010 | MDA     | 26      | 26                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 2   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 2    | 2011 | MDA     | 22      | 22                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 4   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 3    | 2012 | MDA     | 46      | 46                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 5   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 4    | 2013 | MDA     | 34      | 34                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 6   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 5    | 2014 | MDA     | 27      | 27                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 7   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 6    | 2015 | MDA     | 38      | 38                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 8   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 6    | 2016 | MDA     | 36      | 36                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 9   |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 7    | 2017 | MDA     | 47      | 47                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 10  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 8    | 2018 | MDA     | 109     | 109                        | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Interceptor - Lot 11  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 9    | 2019 | MDA     | 110     | 64                         | 46                  | 8                | 8   | 8   | 8   | 8   | 6   |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Launcher - Lot 1  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 10   | 2010 | MDA     | 6       | 6                          | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Launcher - Lot 2  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 11   | 2011 | MDA     | 6       | 6                          | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Launcher - Lot 3  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 12   | 2011 | MDA     | 6       | 6                          | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Launcher - Lot 4  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 13   | 2012 | MDA     | 6       | 6                          | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| Launcher - Lot 6  |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 14   | 2014 | MDA     | 12      | 12                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| TFCC Tactical Station Group - Lot 2                                       |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   | 15   | 2011 | MDA     | 4       | 4                          | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     | 0 |  |
| TFCC Tactical Station Group - Lot 3                                       |      |      |         |         |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |   |  |
|   |      |      |         |         |                            |                     | OC               | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG              | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |   |  |

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|---|-------|------|---------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|--|--|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD07 / THAAD |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>THAAD |     |     |     |     |     |     |     |     |     |         |     |  |  |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2023                              |     |     |     |     |     |     |     |     |     | Fiscal Year 2024   |     |     |                                       |     |     |     |     |     |     |     |     |     | BALANCE |     |  |  |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023                            |     |     |     |     |     |     |     |     |     | Calendar Year 2024 |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  |  |   |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |  |  |   |
|   | 16    | 2011 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  |  | 0 |
| TFCC Tactical Station Group - Lot 4                                       |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  |  |   |
|   | 17    | 2012 | MDA     | 2        | 2                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |     |                                       |     |     |     |     |     |     |     |     |     |         |     |  |  | 0 |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                                   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |  |  |   |

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| <b>Exhibit P-21, Production Schedule:</b> PB 2022 Missile Defense Agency         |  | <b>Date:</b> May 2021                        |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17 | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD | <b>Item Number / Title [DODIC]:</b><br>THAAD |

| MFR<br>Ref<br># | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months) |                    |                      |                      |                       |                    |                      |                      |
|-----------------|---------------------------------|---------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
|                 |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial                       |                    |                      |                      | Reorder               |                    |                      |                      |
|                 |                                 |                                 |                |              | ALT<br>Prior to Oct 1         | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1 | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>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                             | 6                  | 34                   | 40                   | 6                     | 6                  | 34                   | 40                   |
| 10              | Lockheed Martin - Camden, AR    | 1                               | 1              | 3            | 6                             | 8                  | 23                   | 31                   | 6                     | 4                  | 21                   | 25                   |
| 11              | Lockheed Martin - Camden, AR    | 1                               | 1              | 2            | 6                             | 8                  | 29                   | 37                   | 6                     | 4                  | 21                   | 25                   |
| 12              | Lockheed Martin - Camden, AR    | 1                               | 1              | 2            | 6                             | 10                 | 22                   | 32                   | 6                     | 4                  | 21                   | 25                   |
| 13              | Lockheed Martin - Camden, AR    | 1                               | 1              | 2            | 6                             | 10                 | 28                   | 38                   | 6                     | 3                  | 21                   | 24                   |
| 14              | Lockheed Martin - Camden, AR    | 1                               | 1              | 2            | 6                             | 6                  | 22                   | 28                   | 6                     | 4                  | 21                   | 25                   |
| 15              | Lockheed Martin - Camden, AR    | 1                               | 2              | 2            | 6                             | 6                  | 26                   | 32                   | 6                     | 4                  | 24                   | 28                   |
| 16              | Lockheed Martin - Camden, AR    | 1                               | 1              | 1            | 6                             | 10                 | 25                   | 35                   | 6                     | 4                  | 24                   | 28                   |
| 17              | 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.

- 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.

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| <b>Exhibit P-21, Production Schedule:</b> PB 2022 Missile Defense Agency         |  | <b>Date:</b> May 2021                        |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17 | <b>P-1 Line Item Number / Title:</b><br>MD07 / THAAD | <b>Item Number / Title [DODIC]:</b><br>THAAD |

"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 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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|---|--------------------|----------------|----------------|--|--------------------|----------------------|---|---|----------------|-----------------------|--------------------|--------------|
| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                    |                |                |  |                    |                      |   |   |                | <b>Date:</b> May 2021 |                    |              |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency  |                    |                |                |  |                    |                      | <b>P-1 Line Item Number / Title:</b><br>MD08 / Ground Based Midcourse |   |                |                       |                    |              |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B  |                    |                |                | <b>Program Elements for Code B Items:</b> 0603882C |                    |                      |   | <b>Other Related Program Elements:</b> 0603882C |                |                       |                    |              |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                    |                |                |  |                    |                      |   |   |                |                       |                    |              |
| <b>Resource Summary</b>   | <b>Prior Years</b> | <b>FY 2020</b> | <b>FY 2021</b> | <b>FY 2022 Base</b>                                | <b>FY 2022 OCO</b> | <b>FY 2022 Total</b> | <b>FY 2023</b>  | <b>FY 2024</b>                                  | <b>FY 2025</b> | <b>FY 2026</b>        | <b>To Complete</b> | <b>Total</b> |
| Procurement Quantity <i>(Units in Each)</i>   | 23                 | 69             | 4              | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  | 720.464            | 400.471        | 150.000        | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   | 135.000            | 115.000        | 0.000          | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   | 585.464            | 285.471        | 150.000        | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   | 250.000            | 0.000          | 0.000          | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| <b>Total Obligation Authority</b> <i>(\$ in Millions)</i>   | <b>835.464</b>     | <b>285.471</b> | <b>150.000</b> | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>   |                    |                |                |  |                    |                      |   |   |                |                       |                    |              |
| Initial Spares <i>(\$ in Millions)</i>  | 0.000              | -              | -              | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| Flyaway Unit Cost <i>(\$ in Millions)</i>   | 0.000              | -              | -              | -  | -                  | -                    | -   | -   | -              | -                     | Continuing         | Continuing   |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   | 31.325             | 5.804          | 37.500         | -  | -                  | -                    | -   | -   | -              | -                     | -                  | -            |
| <p><b>Description:</b></p> <p>The Ground-based Midcourse Defense (GMD) element of the Missile Defense System provides combatant commands with a continuously available (24 hours a day, 365 days a year) capability to defend the Homeland against limited Intercontinental Ballistic Missile attacks. The GMD capability consists of Ground Based Interceptors (GBI), GMD Fire Control system (GFC), GMD Communications Network (GCN), In-Flight Interceptor Communications System Data Terminal (IDT) and ground Launch Support Systems (LSS). Each GBI delivers a single kill vehicle to defeat threat warheads in space during the midcourse phase of the ballistic trajectory. The GFC consists of fire control nodes in Fort Greely, Alaska (FGA) and Missile Defense Integration and Operations Center (MDIOC) Colorado Springs, Colorado. IDTs are currently located in FGA, Vandenberg Air Force Base (VAFB), California; Eareckson Air Station, Alaska; and Fort Drum, New York. LSS are currently located at FGA and VAFB.</p> <p>Prior years do not include the rescission of \$312 million due to RKV termination: \$115 million Advanced Procurement and \$197 million Procurement.</p> <p>Prior Year Advanced Procurement consisted of \$79M FY18 Advanced Procurement for Silo Interface Vaults/Silos and \$56M FY 18 Advanced Procurement for Ground Based Interceptors (GBI). This totals \$135M in Prior Year Procurement.</p> <p>FY 2021 procures four (4) Configuration (C2) boost vehicles to maintain the industrial base, improve reliability, and extend the service life of extend the service life of the GBI fleet.</p> <p>FY 2020 procures three (3) Configuration 2 (C2) boost vehicles to maintain the industrial base, improve reliability, and extend the service life of up to three (3) Capability Enhancement I GBIs.</p> <p>FY 2020 provides for 66 LSS kits.</p> <p>FY 2021 provides for additional spare boost vehicles to address operational needs, reduce turn-around time of GBI Service Life Extension Program upgrades, and maintain the Orion solid rocket motor production line.</p> |                    |                |                |  |                    |                      |   |   |                |                       |                    |              |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency  |                                       |             |       |  |  |   |   | <b>Date:</b> May 2021                    |  |  |
|--|---------------------------------------|-------------|-------|--|--|---|---|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency |                                       |             |       |  |  | <b>P-1 Line Item Number / Title:</b><br>MD08 / Ground Based Midcourse |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B   |                                       |             |       | <b>Program Elements for Code B Items:</b> 0603882C |  |   | <b>Other Related Program Elements:</b> 0603882C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362   |                                       |             |       |  |  |   |   |  |  |  |
| Exhibits Schedule  |                                       |             |       |  | Prior Years                              | FY 2020   | FY 2021   | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type   | Title*                                | Subexhibits | ID CD | MDAP/MAIS Code                                     | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                              | Quantity / Total Cost<br>(Each) / (\$ M)        | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5  | Ground Based Midcourse                |             | B     |  | 0 / 0.000                                | 69 / 285.471  | 4 / 150.000                                     | - / -                                    | - / -                                    | - / -                                    |
| P-5  | Ground Based Interceptors (GBI)       | P-5a, P-21  | B     |  | 1 / 253.000                              | - / 115.000   | - / 0.000                                       | - / -                                    | - / -                                    | - / -                                    |
| P-5  | Silo Interface Vaults/Silos           | P-5a, P-21  | B     |  | 22 / 467.464                             | - / 0.000   | - / 0.000                                       | - / -                                    | - / -                                    | - / -                                    |
| <b>P-40</b>  | <b>Total Gross/Weapon System Cost</b> |             |       |  | <b>23 / 720.464</b>                      | <b>69 / 400.471</b>   | <b>4 / 150.000</b>                              | <b>- / -</b>                             | <b>- / -</b>                             | <b>- / -</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:**  
N/A

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|   |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
|---|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|---|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|---|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|
| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   | <b>Date:</b> May 2021   |                                    |                                   |                             |                                    |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |                                   |                             |                                    |                                   |                             |                                    | <b>P-1 Line Item Number / Title:</b><br>MD08 / Ground Based Midcourse |                             |                                    |                                   |                             |                                    |                                   | <b>Item Number / Title [DODIC]:</b><br>Ground Based Midcourse |                                    |                                   |                             |                                    |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B   |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    | <b>MDAP/MAIS Code:</b>            |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
| <b>Resource Summary</b>   |                                   |                             |                                    | <b>Prior Years</b>                |                             | <b>FY 2020</b>                     |   | <b>FY 2021</b>              |                                    | <b>FY 2022 Base</b>               |                             | <b>FY 2022 OCO</b>                 |                                   | <b>FY 2022 Total</b>  |                                    |                                   |                             |                                    |
| Procurement Quantity <i>(Units in Each)</i>   |                                   |                             |                                    | 0                                 |                             | 69                                 |   | 4                           |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  |                                   |                             |                                    | 0.000                             |                             | 285.471                            |   | 150.000                     |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   |                                   |                             |                                    | 0.000                             |                             | 0.000                              |   | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   |                                   |                             |                                    | 0.000                             |                             | 285.471                            |   | 150.000                     |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   |                                   |                             |                                    | 115.000                           |                             | 0.000                              |   | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| <b>Total Obligation Authority</b> <i>(\$ in Millions)</i>   |                                   |                             |                                    | <b>115.000</b>                    |                             | <b>285.471</b>                     |   | <b>150.000</b>              |                                    | <b>-</b>                          |                             | <b>-</b>                           |                                   | <b>-</b>  |                                    |                                   |                             |                                    |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
| Initial Spares <i>(\$ in Millions)</i>  |                                   |                             |                                    | -                                 |                             | -                                  |   | -                           |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   |                                   |                             |                                    | 0.000                             |                             | 4.137                              |   | 37.500                      |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
| <b>Cost Elements</b>  | <b>Prior Years</b>                |                             |                                    | <b>FY 2020</b>                    |                             |                                    | <b>FY 2021</b>  |                             |                                    | <b>FY 2022 Base</b>               |                             |                                    | <b>FY 2022 OCO</b>                |   |                                    | <b>FY 2022 Total</b>              |                             |                                    |
|   | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i>                                     | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i>                                   | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> |
| Hardware Cost   |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
| Non Recurring Cost  |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
| Boost Vehicles  | -                                 | -                           | -                                  | 50.000                            | 3                           | 150.000                            | 37.500  | 4                           | 150.000                            | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |
| Launch Support Systems  | -                                 | -                           | -                                  | 2.045                             | 66                          | 135.000                            | -   | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |
| <i>Subtotal: Non Recurring Cost</i>   | -                                 | -                           | -                                  | -                                 | -                           | 285.000                            | -   | -                           | 150.000                            | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |
| <i>Subtotal: Hardware Cost</i>  | -                                 | -                           | -                                  | -                                 | -                           | 285.000                            | -   | -                           | 150.000                            | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |
| Support Cost  |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |
| Obsolescence  | -                                 | -                           | -                                  | 0.471                             | 1                           | 0.471                              | -   | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |
| <i>Subtotal: Support Cost</i>   | -                                 | -                           | -                                  | -                                 | -                           | 0.471                              | -   | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |
| <b>Gross/Weapon System Cost</b>   | <b>0.000</b>                      | <b>0</b>                    | <b>0.000</b>                       | <b>4.137</b>                      | <b>69</b>                   | <b>285.471</b>                     | <b>37.500</b>   | <b>4</b>                    | <b>150.000</b>                     | <b>-</b>                          | <b>-</b>                    | <b>-</b>                           | <b>-</b>                          | <b>-</b>  | <b>-</b>                           | <b>-</b>                          | <b>-</b>                    | <b>-</b>                           |
| <b>Remarks:</b><br>N/A  |                                   |                             |                                    |                                   |                             |                                    |   |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |

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|---|--|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|---|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|--|
| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    | <b>Date:</b> May 2021  |                             |                                    |                                   |                             |                                    |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |  |                                   |                             |                                    |                                   |                             | <b>P-1 Line Item Number / Title:</b><br>MD08 / Ground Based Midcourse |                                   |                             |                                    |                                   |                             |                                    | <b>Item Number / Title [DODIC]:</b><br>Ground Based Interceptors (GBI) |                             |                                    |                                   |                             |                                    |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             | <b>MDAP/MAIS Code:</b>             |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| <b>Resource Summary</b>   |  |                                   |                             | <b>Prior Years</b>                 |                                   |                             | <b>FY 2020</b>  |                                   |                             | <b>FY 2021</b>                     |                                   |                             | <b>FY 2022 Base</b>                |  |                             | <b>FY 2022 OCO</b>                 |                                   |                             | <b>FY 2022 Total</b>               |  |  |
| Procurement Quantity <i>(Units in Each)</i>   |  |                                   |                             | 1                                  |                                   |                             | -   |                                   |                             | -                                  |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  |  |                                   |                             | 253.000                            |                                   |                             | 115.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   |  |                                   |                             | 56.000                             |                                   |                             | 115.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   |  |                                   |                             | 197.000                            |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   |  |                                   |                             | 56.000                             |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| <b>Total Obligation Authority</b> <i>(\$ in Millions)</i>   |  |                                   |                             | <b>253.000</b>                     |                                   |                             | <b>0.000</b>  |                                   |                             | <b>0.000</b>                       |                                   |                             | <b>-</b>                           |  |                             | <b>-</b>                           |                                   |                             | <b>-</b>                           |  |  |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| Initial Spares <i>(\$ in Millions)</i>  |  |                                   |                             | -                                  |                                   |                             | -   |                                   |                             | -                                  |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   |  |                                   |                             | 253.000                            |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| <b>Cost Elements</b>  |  | <b>Prior Years</b>                |                             |                                    | <b>FY 2020</b>                    |                             |   | <b>FY 2021</b>                    |                             |                                    | <b>FY 2022 Base</b>               |                             |                                    | <b>FY 2022 OCO</b>   |                             |                                    | <b>FY 2022 Total</b>              |                             |                                    |  |  |
|   |  | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i>                                    | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i>                                      | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> |  |  |
| Hardware Cost   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| Recurring Cost  |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| Ground Based Interceptors <sup>(†)</sup>  |  | 253.000                           | 1                           | 253.000                            | -                                 | -                           | 115.000   | -                                 | -                           | -                                  | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  |  |  |
| <i>Subtotal: Recurring Cost</i>   |  | -                                 | -                           | 253.000                            | -                                 | -                           | 115.000   | -                                 | -                           | -                                  | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  |  |  |
| <i>Subtotal: Hardware Cost</i>  |  | -                                 | -                           | 253.000                            | -                                 | -                           | 115.000   | -                                 | -                           | -                                  | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  |  |  |
| <b>Gross/Weapon System Cost</b>   |  | <b>253.000</b>                    | <b>1</b>                    | <b>253.000</b>                     | <b>0.000</b>                      | <b>-</b>                    | <b>115.000</b>  | <b>0.000</b>                      | <b>-</b>                    | <b>0.000</b>                       | <b>-</b>                          | <b>-</b>                    | <b>-</b>                           | <b>-</b>   | <b>-</b>                    | <b>-</b>                           | <b>-</b>                          | <b>-</b>                    | <b>-</b>                           |  |  |
| <b>Remarks:</b><br>For purchase of long-lead hardware<br><br><sup>(†)</sup> indicates the presence of a P-5a                                  |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |

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|--|-------------|------|-------------------------|--|-----------------|---------------|------------------------------|---------------|---|------------------------|-------------------------------|-------------------|
| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                         |  |                 |               |                              |               | Date: May 2021  |                        |                               |                   |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17      |             |      |                         | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |                 |               |                              |               | Item Number / Title [DODIC]:<br>Ground Based Interceptors (GBI) |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location | Method/Type<br>or<br>Funding Vehicle                           | Location of PCO | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each) | Unit Cost<br>(\$ M)   | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Ground Based Interceptors -<br>Hardware <sup>(†)</sup>                         |             | 2019 | Boeing / Huntsville     | C / CPIF   | Huntsville      | Oct 2018      | Jan 2019                     | 1             | 0.000   | Y                      |                               | Jan 2018          |

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

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     | Date: May 2021  |     |     |     |     |     |     |     |  |         |   |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|--|---------|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |     |     |     |     |     |     |     |     |                    |     |     |     | Item Number / Title [DODIC]:<br>Ground Based Interceptors (GBI) |     |     |     |     |     |     |     |  |         |   |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2019   |     |     |  |     |     |     |     |     |     |     |     | Fiscal Year 2020   |     |     |     |   |     |     |     |     |     |     |     |  | BALANCE |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | Calendar Year 2019 |     |     |  |     |     |     |     |     |     |     |     | Calendar Year 2020 |     |     |     |   |     |     |     |     |     |     |     |  |         |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB   | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |         |   |
| Ground Based Interceptors - Hardware                                      |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     |   |     |     |     |     | 0   |     |     |  |         |   |
|   | 1     | 2019 | MDA     |          | 1                          | 0                   | 1                  | A   | -   | -  | -   | 1   |     |     |     |     |     |     |                    |     |     |     |   |     |     |     |     |     |     |     |  |         | 0 |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB   | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |         |   |

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|   |                                 |                                 |                |              |  |                    |                      |                      |   |                    |                      |                      |
|---|---------------------------------|---------------------------------|----------------|--------------|--|--------------------|----------------------|----------------------|---|--------------------|----------------------|----------------------|
| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                                 |                                 |                |              |  |                    |                      |                      | Date: May 2021  |                    |                      |                      |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                                 |                                 |                |              | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |                    |                      |                      | Item Number / Title [DODIC]:<br>Ground Based Interceptors (GBI) |                    |                      |                      |
| MFR<br>Ref<br>#   | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months)                                  |                    |                      |                      |   |                    |                      |                      |
|   |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial  |                    |                      |                      | Reorder   |                    |                      |                      |
|   |                                 |                                 |                |              | ALT<br>Prior to Oct 1  | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1   | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 |
| 1   | Boeing - Huntsville             | 1                               | 1              | 2            | 6  | 0                  | 38                   | 38                   | 6   | 0                  | 38                   | 38                   |

"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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|   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
|---|--|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|---|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|--|
| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  | <b>Date:</b> May 2021       |                                    |                                   |                             |                                    |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |  |                                   |                             |                                    |                                   |                             | <b>P-1 Line Item Number / Title:</b><br>MD08 / Ground Based Midcourse |                                   |                             |                                    |                                   |                             |                                    | <b>Item Number / Title [DODIC]:</b><br>Silo Interface Vaults/Silos |                             |                                    |                                   |                             |                                    |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             | <b>MDAP/MAIS Code:</b>             |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| <b>Resource Summary</b>   |  |                                   |                             | <b>Prior Years</b>                 |                                   |                             | <b>FY 2020</b>  |                                   |                             | <b>FY 2021</b>                     |                                   |                             | <b>FY 2022 Base</b>                |  |                             | <b>FY 2022 OCO</b>                 |                                   |                             | <b>FY 2022 Total</b>               |  |  |
| Procurement Quantity <i>(Units in Each)</i>   |  |                                   |                             | 22                                 |                                   |                             | -   |                                   |                             | -                                  |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  |  |                                   |                             | 467.464                            |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   |  |                                   |                             | 79.000                             |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   |  |                                   |                             | 388.464                            |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   |  |                                   |                             | 79.000                             |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| <b>Total Obligation Authority</b> <i>(\$ in Millions)</i>   |  |                                   |                             | <b>467.464</b>                     |                                   |                             | <b>0.000</b>  |                                   |                             | <b>0.000</b>                       |                                   |                             | <b>-</b>                           |  |                             | <b>-</b>                           |                                   |                             | <b>-</b>                           |  |  |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| Initial Spares <i>(\$ in Millions)</i>  |  |                                   |                             | -                                  |                                   |                             | -   |                                   |                             | -                                  |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   |  |                                   |                             | 21.248                             |                                   |                             | 0.000   |                                   |                             | 0.000                              |                                   |                             | -                                  |  |                             | -                                  |                                   |                             | -                                  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| <b>Cost Elements</b>  |  | <b>Prior Years</b>                |                             |                                    | <b>FY 2020</b>                    |                             |   | <b>FY 2021</b>                    |                             |                                    | <b>FY 2022 Base</b>               |                             |                                    | <b>FY 2022 OCO</b>   |                             |                                    | <b>FY 2022 Total</b>              |                             |                                    |  |  |
|   |  | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i>                                    | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i>                                  | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> |  |  |
| Hardware Cost   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| Non Recurring Cost  |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |
| Silos <sup>(†)</sup>  |  | 21.248                            | 22                          | 467.464                            | -                                 | -                           | -   | -                                 | -                           | -                                  | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           |                                    |  |  |
| Subtotal: Non Recurring Cost  |  | -                                 | -                           | 467.464                            | -                                 | -                           | -   | -                                 | -                           | -                                  | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           |                                    |  |  |
| Subtotal: Hardware Cost   |  | -                                 | -                           | 467.464                            | -                                 | -                           | -   | -                                 | -                           | -                                  | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           |                                    |  |  |
| <b>Gross/Weapon System Cost</b>   |  | <b>21.248</b>                     | <b>22</b>                   | <b>467.464</b>                     | <b>0.000</b>                      | <b>-</b>                    | <b>0.000</b>  | <b>0.000</b>                      | <b>-</b>                    | <b>0.000</b>                       | <b>-</b>                          | <b>-</b>                    | <b>-</b>                           | <b>-</b>   | <b>-</b>                    | <b>-</b>                           | <b>-</b>                          | <b>-</b>                    |                                    |  |  |
| <b>Remarks:</b><br>N/A<br><br><sup>(†)</sup> indicates the presence of a P-5a   |  |                                   |                             |                                    |                                   |                             |   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |  |  |



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| <b>Exhibit P-5a, Procurement History and Planning:</b> PB 2022 Missile Defense Agency |             |      |                            |   |                 |               |                              | <b>Date:</b> May 2021  |                     |                        |                               |                   |
|---|-------------|------|----------------------------|---|-----------------|---------------|------------------------------|--|---------------------|------------------------|-------------------------------|-------------------|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17      |             |      |                            | <b>P-1 Line Item Number / Title:</b><br>MD08 / Ground Based Midcourse |                 |               |                              | <b>Item Number / Title [DODIC]:</b><br>Silo Interface Vaults/Silos |                     |                        |                               |                   |
| Cost Elements   | O<br>C<br>O | FY   | Contractor and Location    | Method/Type<br>or<br>Funding Vehicle                                  | Location of PCO | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each)  | Unit Cost<br>(\$ M) | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Silos - Hardware <sup>(†)</sup>   |             | 2018 | Boeing / AL/AK/AZ/CA/CO/VA | SS / FPIF   | Huntsville, AL  | Jan 2018      | Feb 2021                     | 10   | 22.700              | Y                      | Sep 2018                      | Jan 2018          |
| Silos - Hardware <sup>(†)</sup>   |             | 2019 | Boeing / AL/AK/AZ/CA/CO/VA | SS / FPIF   | Huntsville, AL  | Jan 2018      | Nov 2021                     | 12   | 21.050              | Y                      | Sep 2018                      | Jan 2018          |

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

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     | Date: May 2021  |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Silo Interface Vaults/Silos |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2018   |     |     |  |     |     |     |     |     |     | Fiscal Year 2019   |     |     |   |     |     |     |     |     |     |     |     |     |     | BALANCE |  |  |  |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | Calendar Year 2018 |     |     |  |     |     |     |     |     |     | Calendar Year 2019 |     |     |   |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |  |  |  |
| Silos - Hardware  |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 1     | 2018 | MDA     | 10       | 0                          | 10                  |                    |     |     | A -  | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 10  |         |  |  |  |
|   | 1     | 2019 | MDA     | 12       | 0                          | 12                  |                    |     |     | A -  | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 12  |         |  |  |  |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |     |                    |     |     | Date: May 2021  |     |     |     |     |     |     |     |  |  |         |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Silo Interface Vaults/Silos |     |     |     |     |     |     |     |  |  |         |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2020   |     |     |  |     |     |     |     |     |     |     |     |     | Fiscal Year 2021   |     |     |   |     |     |     |     |     |     |     |  |  | BALANCE |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | Calendar Year 2020 |     |     |  |     |     |     |     |     |     |     |     |     | Calendar Year 2021 |     |     |   |     |     |     |     |     |     |     |  |  |         |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV                | DEC | JAN | FEB   | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |         |
| Silos - Hardware  |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |  |  |         |
|   | 1     | 2018 | MDA     | 10       | 0                          | 10                  | -                  | -   | -   | -  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | 2   | 2   | -   | -   | 1   | 3   | 2   |     | 0   |  |  |         |
|   | 1     | 2019 | MDA     | 12       | 0                          | 12                  | -                  | -   | -   | -  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -   | -   | -   | -   | -   | -   |     | 12  |  |  |         |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV                | DEC | JAN | FEB   | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |         |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     | Date: May 2021  |     |     |     |     |     |     |     |     |     |         |     |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Silo Interface Vaults/Silos |     |     |     |     |     |     |     |     |     |         |     |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2022   |     |     |  |     |     |     |     |     |     | Fiscal Year 2023   |     |     |   |     |     |     |     |     |     |     |     |     | BALANCE |     |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 |     |     |  |     |     |     |     |     |     | Calendar Year 2023 |     |     |   |     |     |     |     |     |     |     |     |     |         |     |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |
| Silos - Hardware  |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     |
|   | 1     | 2018 | MDA     | 10       | 10                         | 0                   |                    |     |     |  |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     | 0   |     |     |         |     |
|   | 1     | 2019 | MDA     | 12       | 0                          | 12                  | -                  | 2   | 1   | 2  | 3   | 2   | -   | -   | -   | -   | -                  | -   | -   | -   | -   | -   | -   | 2   |     |     |     |     | 0   |         |     |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |

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|--|---------------------------------|---------------------------------|----------------|--------------|--|--------------------|----------------------|----------------------|-----------------------|---|----------------------|----------------------|--|
| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency  |                                 |                                 |                |              |  |                    |                      |                      | Date: May 2021        |   |                      |                      |  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                                 |                                 |                |              | P-1 Line Item Number / Title:<br>MD08 / Ground Based Midcourse |                    |                      |                      |                       | Item Number / Title [DODIC]:<br>Silo Interface Vaults/Silos |                      |                      |  |
| MFR<br>Ref<br>#  | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months)                                  |                    |                      |                      |                       |   |                      |                      |  |
|  |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial  |                    |                      |                      | Reorder               |   |                      |                      |  |
|  |                                 |                                 |                |              | ALT<br>Prior to Oct 1  | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1 | ALT<br>After Oct 1  | Manufacturing<br>PLT | Total<br>After Oct 1 |  |
| 1  | Boeing - AL/AK/AZ/CA/CO/<br>VA  | 1                               | 1              | 6            | 6  | 0                  | 20                   | 20                   | 6                     | 0   | 20                   | 20                   |  |
| Remarks:<br>FY 2019 MILCON for Missile Field-1 was reprogrammed as a result of the utilization of 10 U.S. Code section 2808, the declaration of a national emergency at the southern border. GM Missile Field-1 construction was cancelled and subsequent delivery of the silos was delayed.<br><br>"A" in the Delivery Schedule indicates the Contract Award Date.<br><b>Note:</b> 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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|---|--------------------|----------------|--|---------------------|--------------------|----------------------|--|----------------|----------------|-----------------------|--------------------|-------------------|
| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                    |                |  |                     |                    |                      |  |                |                | <b>Date:</b> May 2021 |                    |                   |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency  |                    |                |  |                     |                    |                      | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD |                |                |                       |                    |                   |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B  |                    |                | <b>Program Elements for Code B Items:</b> 0604881C, 0603892C |                     |                    |                      | <b>Other Related Program Elements:</b> 0603892C          |                |                |                       |                    |                   |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                    |                |  |                     |                    |                      |  |                |                |                       |                    |                   |
| <b>Resource Summary</b>   | <b>Prior Years</b> | <b>FY 2020</b> | <b>FY 2021</b>   | <b>FY 2022 Base</b> | <b>FY 2022 OCO</b> | <b>FY 2022 Total</b> | <b>FY 2023</b>   | <b>FY 2024</b> | <b>FY 2025</b> | <b>FY 2026</b>        | <b>To Complete</b> | <b>Total</b>      |
| Procurement Quantity ( <i>Units in Each</i> )   | 345                | 32             | 40   | 40                  | -                  | 40                   | -  | -              | -              | -                     | Continuing         | Continuing        |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )  | 5,504.950          | 336.374        | 399.920  | 394.386             | -                  | 394.386              | -  | -              | -              | -                     | Continuing         | Continuing        |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 46.024   | 59.765              | -                  | 59.765               | -  | -              | -              | -                     | -                  | -                 |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )   | 5,504.950          | 336.374        | 353.896  | 334.621             | -                  | 334.621              | -  | -              | -              | -                     | Continuing         | Continuing        |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 96.995         | 44.901   | 17.493              | -                  | 17.493               | -  | -              | -              | -                     | -                  | -                 |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )   | <b>5,504.950</b>   | <b>433.369</b> | <b>398.797</b>   | <b>352.114</b>      | <b>-</b>           | <b>352.114</b>       | <b>-</b>   | <b>-</b>       | <b>-</b>       | <b>-</b>              | <b>Continuing</b>  | <b>Continuing</b> |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>   |                    |                |  |                     |                    |                      |  |                |                |                       |                    |                   |
| Initial Spares ( <i>\$ in Millions</i> )  | 0.000              | -              | -  | -                   | -                  | -                    | -  | -              | -              | -                     | -                  | -                 |
| Flyaway Unit Cost ( <i>\$ in Millions</i> )   | 57.642             | 12.786         | 11.997   | 12.515              | -                  | 12.515               | -  | -              | -              | -                     | Continuing         | Continuing        |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )   | 15.956             | 10.512         | 9.998  | 9.860               | -                  | 9.860                | -  | -              | -              | -                     | Continuing         | Continuing        |
| <p><b>Description:</b><br/>           In accordance with the Consolidated Appropriations Act 2020, SM-3 Block IIA was transferred to MD14 from MD09 in FY 2020 and beyond. FY 2018 and FY 2019 costs are contained in MD09.</p> <p>Net Procurement and Gross Weapon System costs includes all hardware and support costs and are detailed in separate P5s.<br/>           Prior Year procurement 71 SM-3 Block IAs are not included.</p> <p>The Sea-Based Weapon Systems mission is to deliver an operationally effective and supportable Ballistic Missile Defense (BMD) capability to defend the nation, deployed forces, and allies. Aegis BMD aims to increase this capability by delivering evolutionary improvements as part of Missile Defense System upgrades. Sea-Based Weapon Systems provides a forward-deployable, mobile capability to detect and track ballistic missiles of all ranges, and the ability to destroy Short-Range Ballistic Missiles (SRBM), Medium-Range Ballistic Missiles (MRBM), and Intermediate-Range Ballistic Missiles (IRBM) in the midcourse phase of flight. Upgrades to both the Aegis BMD Weapon System and SM-3 configuration enable Aegis BMD to provide an effective, supportable, and defensive capability against longer range, more sophisticated threats and an enduring Aegis Ashore defensive capability.</p> <p>The SM-3 Block IB improves Sea-Based Weapon Systems ability to expand the BMD battlespace, engage longer range, more sophisticated ballistic missiles that may deploy countermeasures and launch in larger raid sizes. The SM-3 Block IB Kinetic Warhead's (KW) two color infrared (IR) seeker and advanced signal processor provides a real-time discrimination and characterization capability while improving sensitivity for longer range targets and performance against more sophisticated threats. Additionally, the Throttleable Divert and Attitude Control System KW divert engine has been upgraded over the SM-3 Block IA to provide a more flexible divert in order to maneuver the KW to intercept.</p> <p>The SM-3 Block IIA provides greater capability over SM-3 Block IB, including increased velocity and range provided by a 21-inch diameter rocket motor propulsion stack, more than doubled seeker sensitivity, and more than tripled divert capability incorporated in an advanced KW. New component technologies include, but are not limited to: lightweight nosecone, advanced KW, 21-inch second stage rocket motor, and 21-inch third stage rocket motor. Working in concert with the SM-3 Block IB, the SM-3 Block IIA, will increase the Ballistic Missile Defense System defended area and increase the probability of kill against a larger threat set. The SM-3 Block IIA is also a critical part of the Aegis Ashore Missile Defense System Complex - Romania and Poland, and is also vital to defense efforts for Aegis afloat in the European and Indo-Pacific Commands. This will provide a more robust protection of Europe and the Indo-Pacific. The SM-3 Block IIA also provides defense against IRBMs and other threats. SM-3 Block IIA was transferred to MD14 from MD09 in FY 2020 and beyond.</p> |                    |                |  |                     |                    |                      |  |                |                |                       |                    |                   |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency  |                                       |             |       |  |  |  |   | <b>Date:</b> May 2021                    |  |  |
|--|---------------------------------------|-------------|-------|--|--|--|---|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency |                                       |             |       |  |  | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B   |                                       |             |       | <b>Program Elements for Code B Items:</b> 0604881C, 0603892C |  |  | <b>Other Related Program Elements:</b> 0603892C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362   |                                       |             |       |  |  |  |   |  |  |  |
| Exhibits Schedule  |                                       |             |       |  | Prior Years                              | FY 2020  | FY 2021   | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type   | Title*                                | Subexhibits | ID CD | MDAP/MAIS Code   | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                 | Quantity / Total Cost<br>(Each) / (\$ M)        | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5  | Aegis BMD SM-3 Block IB               | P-5a, P-21  | B     |  | 315 / 4,653.892                          | 32 / 336.374   | 40 / 399.920                                    | 40 / 394.386                             | - / -                                    | 40 / 394.386                             |
| P-5  | Aegis BMD SM-3 Block IIA              | P-5a, P-21  | B     |  | 30 / 851.058                             | - / 0.000  | - / 0.000                                       | - / -                                    | - / -                                    | - / -                                    |
| <b>P-40</b>  | <b>Total Gross/Weapon System Cost</b> |             |       |  | <b>345 / 5,504.950</b>                   | <b>32 / 336.374</b>                                      | <b>40 / 399.920</b>                             | <b>40 / 394.386</b>                      | <b>- / -</b>                             | <b>40 / 394.386</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.   |                                       |             |       |  |  |  |   |  |  |  |
| <b>Justification:</b><br>N/A   |                                       |             |       |  |  |  |   |  |  |  |



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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      | Date: May 2021  |               |                      |                     |               |                      |               |  |  |
|--|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|---------------------|---------------|----------------------|---------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                     |               |                      |                     |               | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |                     |               |                      |                     |               |                      | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |               |                      |                     |               |                      |               |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B   |                     |               |                      |                     |               |   |                     |               | MDAP/MAIS Code:      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Resource Summary   |                     |               |                      | Prior Years         |               |   | FY 2020             |               |                      | FY 2021             |               |                      | FY 2022 Base  |               |                      | FY 2022 OCO         |               |                      | FY 2022 Total |  |  |
| Procurement Quantity <i>(Units in Each)</i>  |                     |               |                      | 315                 |               |   | 32                  |               |                      | 40                  |               |                      | 40  |               |                      | -                   |               |                      | 40            |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>   |                     |               |                      | 4,653.892           |               |   | 336.374             |               |                      | 399.920             |               |                      | 394.386   |               |                      | -                   |               |                      | 394.386       |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |   | 0.000               |               |                      | 46.024              |               |                      | 59.765  |               |                      | -                   |               |                      | 59.765        |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>  |                     |               |                      | 4,653.892           |               |   | 336.374             |               |                      | 353.896             |               |                      | 334.621   |               |                      | -                   |               |                      | 334.621       |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |   | 96.995              |               |                      | 44.901              |               |                      | 17.493  |               |                      | -                   |               |                      | 17.493        |  |  |
| Total Obligation Authority <i>(\$ in Millions)</i>   |                     |               |                      | 4,653.892           |               |   | 433.369             |               |                      | 398.797             |               |                      | 352.114   |               |                      | -                   |               |                      | 352.114       |  |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Initial Spares <i>(\$ in Millions)</i>   |                     |               |                      | -                   |               |   | -                   |               |                      | -                   |               |                      | -   |               |                      | -                   |               |                      | -             |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>  |                     |               |                      | 14.774              |               |   | 10.512              |               |                      | 9.998               |               |                      | 9.860   |               |                      | -                   |               |                      | 9.860         |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Cost Elements  | Prior Years         |               |                      | FY 2020             |               |   | FY 2021             |               |                      | FY 2022 Base        |               |                      | FY 2022 OCO   |               |                      | FY 2022 Total       |               |                      |               |  |  |
|  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                              | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)                                     | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |               |  |  |
| Flyaway Cost   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Recurring Cost   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| SM-3 Block IA Procurement <sup>(†)</sup>   | 10.800              | 71            | 766.765              | -                   | -             | -   | -                   | -             | -                    | -                   | -             | -                    | -   | -             | -                    | -                   | -             | -                    |               |  |  |
| SM-3 Block IB Procurement <sup>(†)</sup>   | 11.005              | 315           | 3,466.715            | 9.311               | 32            | 297.962   | 8.975               | 40            | 359.000              | 9.032               | 40            | 361.273              | -   | -             | -                    | 9.032               | 40            | 361.273              |               |  |  |
| Subtotal: Recurring Cost   | -                   | -             | 4,233.480            | -                   | -             | 297.962   | -                   | -             | 359.000              | -                   | -             | 361.273              | -   | -             | -                    | -                   | -             | 361.273              |               |  |  |
| Subtotal: Flyaway Cost   | -                   | -             | 4,233.480            | -                   | -             | 297.962   | -                   | -             | 359.000              | -                   | -             | 361.273              | -   | -             | -                    | -                   | -             | 361.273              |               |  |  |
| Hardware Cost  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Recurring Cost   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Canisters Procurement SM-3 Block IA/IB (1)   | 0.239               | 324           | 77.585               | 0.304               | 32            | 9.712   | 0.322               | 40            | 12.888               | 0.297               | 40            | 11.889               | -   | -             | -                    | 0.297               | 40            | 11.889               |               |  |  |
| Subtotal: Recurring Cost   | -                   | -             | 77.585               | -                   | -             | 9.712   | -                   | -             | 12.888               | -                   | -             | 11.889               | -   | -             | -                    | -                   | -             | 11.889               |               |  |  |
| Subtotal: Hardware Cost  | -                   | -             | 77.585               | -                   | -             | 9.712   | -                   | -             | 12.888               | -                   | -             | 11.889               | -   | -             | -                    | -                   | -             | 11.889               |               |  |  |
| Support Cost   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Ballistic Barriers for Transportation SM-3 Block IB (2)  | 0.305               | 36            | 10.963               | -                   | -             | -   | -                   | -             | -                    | -                   | -             | -                    | -   | -             | -                    | -                   | -             | -                    |               |  |  |
| Cyber Security (3)   | -                   | -             | -                    | 1.500               | 1             | 1.500   | 1.500               | 1             | 1.500                | -                   | -             | -                    | -   | -             | -                    | -                   | -             | -                    |               |  |  |
| Diminishing Manufacturing Sources Mitigation (4)   | 8.658               | 2             | 17.315               | 3.660               | 1             | 3.660   | 3.733               | 1             | 3.733                | 3.866               | 1             | 3.866                | -   | -             | -                    | 3.866               | 1             | 3.866                |               |  |  |
| SM-3 Blk IB Investment Spares (5)  | 8.156               | 3             | 24.467               | 7.419               | 1             | 7.419   | 10.737              | 1             | 10.737               | 7.414               | 1             | 7.414                | -   | -             | -                    | 7.414               | 1             | 7.414                |               |  |  |

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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   | Date: May 2021      |               |                      |                     |               |                      |
|---|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17   |                     |               |                      |                     |               | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |                     |               |                      |                     |               | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |                     |               |                      |                     |               |                      |
| ID Code (A=Service Ready, B=Not Service Ready) : B  |                     |               |                      |                     |               |   |                     |               | MDAP/MAIS Code:      |                     |               |   |                     |               |                      |                     |               |                      |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| Cost Elements   | Prior Years         |               |                      | FY 2020             |               |   | FY 2021             |               |                      | FY 2022 Base        |               |   | FY 2022 OCO         |               |                      | FY 2022 Total       |               |                      |
|   | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                              | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                                    | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |
| SM-3 Block IB Obsolescence (6)  | 17.425              | 3             | 52.274               | 1.367               | 1             | 1.367   | 1.394               | 1             | 1.394                | 1.375               | 1             | 1.375   | -                   | -             | -                    | 1.375               | 1             | 1.375                |
| SM-3 Block IB Production Engineering (7)  | 26.484              | 8             | 211.875              | 4.080               | 1             | 4.080   | 4.162               | 1             | 4.162                | 3.751               | 1             | 3.751   | -                   | -             | -                    | 3.751               | 1             | 3.751                |
| SM-3 Block IB Service Life Evaluation Program   | 3.910               | 3             | 11.729               | 0.171               | 1             | 0.171   | 2.000               | 1             | 2.000                | -                   | -             | -   | -                   | -             | -                    | -                   | -             | -                    |
| SM-3 Block IB Systems Engineering and Integration (9)   | 7.102               | 2             | 14.204               | 10.503              | 1             | 10.503  | 4.506               | 1             | 4.506                | 4.818               | 1             | 4.818   | -                   | -             | -                    | 4.818               | 1             | 4.818                |
| Subtotal: Support Cost  | -                   | -             | 342.827              | -                   | -             | 28.700  | -                   | -             | 28.032               | -                   | -             | 21.224  | -                   | -             | -                    | -                   | -             | 21.224               |
| Gross/Weapon System Cost  | 14.774              | 315           | 4,653.892            | 10.512              | 32            | 336.374   | 9.998               | 40            | 399.920              | 9.860               | 40            | 394.386   | -                   | -             | -                    | 9.860               | 40            | 394.386              |
| Remarks:  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (1) Canisters are required for each SM-3 procured.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (2) SM-3 Transportation of Ballistic Barriers are required by Joint Service Insensitive Munitions Technical Panel) and Naval Ordnance Safety and Security Activity to transport missiles.   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (3) Cyber Security - Support Certification & Accreditation planning and testing in accordance with the Operational Designated Accrediting Authority Process. Conduct certification and accreditation of classified systems and networks under The National Industrial Security Program Operating Manual. Ensure protection of trusted system networks and unclassified contractor networks containing DoD Information.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (4) Diminishing Manufacturing Sources Mitigation allows Aegis Ballistic Missile Defense to mitigate the loss, or impending loss, of manufacturers of items or suppliers of items or of raw materials caused by several factors. These factors include new or evolving science, detection limits, toxicity values, and regulations related to chemicals and materials resulting in significant impact on the supply chain and industrial base . (5) SM-3 Block IB Investment Spares are procured to coincide with the delivery of the missile and are required to support All Up Rounds during 4 year maintenance period.                                    |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (6) Obsolescence monitoring and management is the program's most effective and efficient way to minimize materiel readiness risks, realize future savings during production and sustainment, and improve overall life-cycle management. Identifies risk associated with the 800 vendors/suppliers discontinuing production of a component or raw material and then properly mitigating impacts to production. If not identified early, such activities will impact production and Fleet deliveries.   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (7) Production Engineering supports SM-3 Guided Missile Round production activities and issue resolution during manufacturing, assembly, testing, and missile integration. Funding provides production change validation, preparation, and configuration management, government prepared production acceptance procedures, production planning, Integrated Logistics Support planning, coordination of government furnished information and government furnished equipment, contract deliverable monitoring and prime contractor monitoring of cost/schedule performance. Also provides in-service engineering agent and technical direction agent support. |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (8) SM-3 Block IB Service Life Evaluation Program includes testing and analysis to demonstrate the safety and suitability of the SM-3 for an extended service life goal of 12 years.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| (9) Systems Engineering and Integration - Addresses production technical issues that arise within the entire SM-3 vendor/supplier base. Includes improvement and efficiency activities such as configuration management and control boards, engineering assessments of manufacturing process improvement changes, engineering assessments of sub-vendor production issues, and engineering and quality review of documentation and test data prior to missile acceptance by the government.   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |

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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency                |   | Date: May 2021  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |
| ID Code (A=Service Ready, B=Not Service Ready) : B                        |   | MDAP/MAIS Code:   |
| <div>(t) indicates the presence of a P-5a</div>                           |   |   |

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|---|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Exhibit P-5a, Procurement History and Planning:</b> PB 2022 Missile Defense Agency |  |  |  |  |  |  |  | <b>Date:</b> May 2021  |  |  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17      |  |  |  | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD |  |  |  | <b>Item Number / Title [DODIC]:</b><br>Aegis BMD SM-3 Block IB |  |  |  |  |

| Cost Elements                            | O<br>C<br>O | FY   | Contractor and Location | Method/Type<br>or<br>Funding Vehicle | Location of PCO | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each) | Unit Cost<br>(\$ M) | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
|--|-------------|------|-------------------------|--------------------------------------|-----------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| SM-3 Block IA Procurement <sup>(†)</sup> |             | 2009 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | Feb 2008      | Mar 2010                     | 11            | 8.405               | Y                      |                               | Mar 2007          |
| SM-3 Block IA Procurement <sup>(†)</sup> |             | 2010 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | Apr 2008      | Aug 2010                     | 24            | 8.119               | Y                      |                               | Mar 2007          |
| SM-3 Block IA Procurement <sup>(†)</sup> |             | 2011 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | Aug 2012      | Sep 2013                     | 22            | 9.525               | Y                      |                               | Nov 2010          |
| SM-3 Block IA Procurement <sup>(†)</sup> |             | 2012 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | Aug 2012      | Jul 2014                     | 14            | 9.867               | Y                      |                               | Aug 2011          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2012 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | May 2012      | Dec 2013                     | 14            | 13.400              | Y                      |                               | Aug 2011          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2013 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | Jun 2013      | Jun 2014                     | 33            | 12.130              | Y                      |                               | Aug 2012          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2014 | Raytheon / Tucson, AZ   | SS / CPIF                            | Dahlgren, VA    | Apr 2014      | Jan 2016                     | 52            | 10.236              | Y                      |                               | Aug 2013          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2015 | Raytheon / Tucson, AZ   | SS / FPIF                            | Dahlgren, VA    | Mar 2015      | Nov 2016                     | 52            | 11.411              | Y                      |                               | Aug 2014          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2016 | Raytheon / Tucson, AZ   | SS / FPIF                            | Dahlgren, VA    | Mar 2016      | Oct 2018                     | 46            | 11.538              | Y                      |                               | Aug 2015          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2017 | Raytheon / Tucson, AZ   | SS / FP                              | Dahlgren, VA    | Mar 2017      | Oct 2019                     | 35            | 10.896              | Y                      |                               | Aug 2016          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2018 | Raytheon / Tucson, AZ   | SS / FPIF                            | Dahlgren, VA    | Apr 2019      | Jan 2021                     | 44            | 11.843              | Y                      |                               | Aug 2017          |
| SM-3 Block IB Procurement <sup>(†)</sup> |             | 2019 | Raytheon / Tucson, AZ   | SS / FPIF                            | Dahlgren, VA    | Mar 2020      | May 2022                     | 39            | 8.980               | Y                      |                               | Aug 2018          |

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

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     | Date: May 2021  |     |     |     |     |     |     |     |     |     |         |     |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |     |     |     |     |     |     |     |     |     |         |     |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2008   |     |     |   |     |     |     |     |     |     | Fiscal Year 2009   |     |     |   |     |     |     |     |     |     |     |     |     | BALANCE |     |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2007 | BAL DUE AS OF 1 OCT | Calendar Year 2008 |     |     |   |     |     |     |     |     |     | Calendar Year 2009 |     |     |   |     |     |     |     |     |     |     |     |     |         |     |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |
| SM-3 Block IA Procurement   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     |
|   | 1     | 2009 | MDA     | 11       | 0                          | 11                  |                    |     |     |   | A - | -   | -   | -   | -   | -   | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -       | 11  |
|   | 1     | 2010 | MDA     | 24       | 0                          | 24                  |                    |     |     |   |     |     | A - | -   | -   | -   | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -       | 24  |
|   | 1     | 2011 | MDA     | 22       | 0                          | 22                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 22  |
|   | 1     | 2012 | MDA     | 14       | 0                          | 14                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 14  |
| SM-3 Block IB Procurement   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     |
|   | 2     | 2012 | MDA     | 14       | 0                          | 14                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 14  |
|   | 2     | 2013 | MDA     | 33       | 0                          | 33                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 33  |
|   | 2     | 2014 | MDA     | 52       | 0                          | 52                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 52  |
|   | 2     | 2015 | MDA     | 52       | 0                          | 52                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 52  |
|   | 2     | 2016 | MDA     | 46       | 0                          | 46                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 46  |
|   | 2     | 2017 | MDA     | 35       | 0                          | 35                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 35  |
|   | 2     | 2018 | MDA     | 44       | 0                          | 44                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 44  |
|   | 2     | 2019 | MDA     | 39       | 0                          | 39                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 39  |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   | Date: May 2021 |     |     |     |     |     |     |     |    |         |
|---|-------|------|---------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|----------------|-----|-----|-----|-----|-----|-----|-----|----|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |     |     |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |                |     |     |     |     |     |     |     |    |         |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2010                                  |     |     |     |     |     |     |     |     |     |     |     | Fiscal Year 2011   |     |     |   |                |     |     |     |     |     |     |     |    | BALANCE |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2009 | BAL DUE AS OF 1 OCT | Calendar Year 2010                                |     |     |     |     |     |     |     |     |     |     |     | Calendar Year 2011 |     |     |   |                |     |     |     |     |     |     |     |    |         |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN   | FEB            | MAR | APR | MAY | JUN | JUL | AUG | SEP |    |         |
| SM-3 Block IA Procurement   |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     |     |    |         |
|   | 1     | 2009 | MDA     | 11       | 0                          | 11                  | -   | -   | -   | -   | -   | 2   | -   | -   | -   | 2   | 2   | -   | -                  | -   | -   | -   | -              | -   | 1   | 1   | 3   |     |     |     | 0  |         |
|   | 1     | 2010 | MDA     | 24       | 0                          | 24                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | 2   | 2   | 7   | -                  | -   | -   | -   | -              | -   | -   | -   | -   | -   | -   | -   | 13 |         |
|   | 1     | 2011 | MDA     | 22       | 0                          | 22                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 22  |    |         |
|   | 1     | 2012 | MDA     | 14       | 0                          | 14                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 14  |    |         |
| SM-3 Block IB Procurement   |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     |     |    |         |
|   | 2     | 2012 | MDA     | 14       | 0                          | 14                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 14  |    |         |
|   | 2     | 2013 | MDA     | 33       | 0                          | 33                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 33  |    |         |
|   | 2     | 2014 | MDA     | 52       | 0                          | 52                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 52  |    |         |
|   | 2     | 2015 | MDA     | 52       | 0                          | 52                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 52  |    |         |
|   | 2     | 2016 | MDA     | 46       | 0                          | 46                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 46  |    |         |
|   | 2     | 2017 | MDA     | 35       | 0                          | 35                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 35  |    |         |
|   | 2     | 2018 | MDA     | 44       | 0                          | 44                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 44  |    |         |
|   | 2     | 2019 | MDA     | 39       | 0                          | 39                  |   |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |   |                |     |     |     |     |     |     | 39  |    |         |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN   | FEB            | MAR | APR | MAY | JUN | JUL | AUG | SEP |    |         |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             | Date: May 2021  |             |             |             |             |             |             |                                 |             |             |             |             |    |    |    |
|---|------------------|------|---------|-------------|---|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|-------------|-------------|-------------|----|----|----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |             |             |             |             |             |             |                    |             |             | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |             |             |             |             |             |             |                                 |             |             |             |             |    |    |    |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |   |                              | Fiscal Year 2012   |             |             |   |             |             |             |             |             |             | Fiscal Year 2013   |             |             |   |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |             |             |             |    |    |    |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>O<br>C<br>T<br>2<br>0<br>1<br>1 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2012 |             |             |   |             |             |             |             |             |             | Calendar Year 2013 |             |             |   |             |             |             |             |             |             |                                 |             |             |             |             |    |    |    |
|   |                  |      |         |             |   |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V   | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y |                                 | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |    |    |    |
| SM-3 Block IA Procurement   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             |                                 |             |             |             |             |    |    |    |
|   | 1                | 2009 | MDA     | 11          | 11  | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0                               |             |             |             |             |    |    |    |
|   | 1                | 2010 | MDA     | 24          | 11  | 13                           | -                  | -           | -           | -   | 6           | -           | 1           | -           | -           | 2           | -                  | 3           | -           | -   | -           | -           | -           | -           | -           | -           | -                               | -           | -           | 1           | 0           |    |    |    |
|   | 1                | 2011 | MDA     | 22          | 0   | 22                           |                    |             |             |   |             |             |             |             |             |             | A -                | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                               | -           | -           | -           | -           | 1  | 21 |    |
|   | 1                | 2012 | MDA     | 14          | 0   | 14                           |                    |             |             |   |             |             |             |             |             |             | A -                | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                               | -           | -           | -           | -           | -  | -  | 14 |
| SM-3 Block IB Procurement   |                  |      |         |             |   |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             |                                 |             |             |             |             |    |    |    |
|   | 2                | 2012 | MDA     | 14          | 0   | 14                           |                    |             |             |   |             |             |             |             |             |             | A -                | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                               | -           | -           | -           | -           | -  | -  | 14 |
|   | 2                | 2013 | MDA     | 33          | 0   | 33                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | A -                             | -           | -           | -           | -           | 33 |    |    |
|   | 2                | 2014 | MDA     | 52          | 0   | 52                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 52                              |             |             |             |             |    |    |    |
|   | 2                | 2015 | MDA     | 52          | 0   | 52                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 52                              |             |             |             |             |    |    |    |
|   | 2                | 2016 | MDA     | 46          | 0   | 46                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 46                              |             |             |             |             |    |    |    |
|   | 2                | 2017 | MDA     | 35          | 0   | 35                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 35                              |             |             |             |             |    |    |    |
|   | 2                | 2018 | MDA     | 44          | 0   | 44                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 44                              |             |             |             |             |    |    |    |
|   | 2                | 2019 | MDA     | 39          | 0   | 39                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 39                              |             |             |             |             |    |    |    |
|   |                  |      |         |             |   |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V   | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N                     | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |             |    |    |    |

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|---|-------|------|---------|----------|----------------------------|---------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|------------------------------|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|---|----|---|----|
| Appropriation / Budget Activity / Budget Sub Activity:            |       |      |         |          |                            |                     | P-1 Line Item Number / Title: |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]: |     |     |     |     |     |     |         |     |     |     |     |   |    |   |    |
| 0300D / 01 / 17   |       |      |         |          |                            |                     | MD09 / AEGIS BMD              |     |     |     |     |     |     |     |     |     |                    |     |     | Aegis BMD SM-3 Block IB      |     |     |     |     |     |     |         |     |     |     |     |   |    |   |    |
| Cost Elements<br>(Units in Each)                                  |       |      |         |          |                            |                     | Fiscal Year 2014              |     |     |     |     |     |     |     |     |     | Fiscal Year 2015   |     |     |                              |     |     |     |     |     |     | BALANCE |     |     |     |     |   |    |   |    |
| OCCO  | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2013 | BAL DUE AS OF 1 OCT | Calendar Year 2014            |     |     |     |     |     |     |     |     |     | Calendar Year 2015 |     |     |                              |     |     |     |     |     |     |         |     |     |     |     |   |    |   |    |
|   |       |      |         |          |                            |                     | OCT                           | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                          | DEC | JAN | FEB | MAR | APR | MAY |         | JUN | JUL | AUG | SEP |   |    |   |    |
| SM-3 Block IA Procurement   |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         |     |     |     |     |   |    |   |    |
|   | 1     | 2009 | MDA     | 11       | 11                         | 0                   |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         | 0   |     |     |     |   |    |   |    |
|   | 1     | 2010 | MDA     | 24       | 24                         | 0                   |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         | 0   |     |     |     |   |    |   |    |
|   | 1     | 2011 | MDA     | 22       | 1                          | 21                  | 5                             | 1   | 2   | 1   | -   | 3   | 4   | 1   | 1   | 3   |                    |     |     |                              |     |     |     |     |     |     |         | 0   |     |     |     |   |    |   |    |
|   | 1     | 2012 | MDA     | 14       | 0                          | 14                  | -                             | -   | -   | -   | -   | -   | -   | -   | 2   | 1   | 3                  | -   | -   | -                            | 3   | 4   | -   | 1   |     |     |         | 0   |     |     |     |   |    |   |    |
| SM-3 Block IB Procurement   |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         |     |     |     |     |   |    |   |    |
|   | 2     | 2012 | MDA     | 14       | 0                          | 14                  | -                             | -   | 1   | 3   | 2   | 3   | 1   | 2   | 2   |     |                    |     |     |                              |     |     |     |     |     |     |         | 0   |     |     |     |   |    |   |    |
|   | 2     | 2013 | MDA     | 33       | 0                          | 33                  | -                             | -   | -   | -   | -   | -   | -   | -   | 2   | 1   | -                  | 1   | -   | 6                            | 3   | 1   | -   | 3   | 2   | 4   | -       | -   | -   | 1   | 9   |   |    |   |    |
|   | 2     | 2014 | MDA     | 52       | 0                          | 52                  |                               |     |     |     |     |     |     |     |     |     | A                  | -   | -   | -                            | -   | -   | -   | -   | -   | -   | -       | -   | -   | -   | -   | - | 52 |   |    |
|   | 2     | 2015 | MDA     | 52       | 0                          | 52                  |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     | A   | -   | -   | -   | -   | -       | -   | -   | -   | -   | - | -  | - | 52 |
|   | 2     | 2016 | MDA     | 46       | 0                          | 46                  |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         | 46  |     |     |     |   |    |   |    |
|   | 2     | 2017 | MDA     | 35       | 0                          | 35                  |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         | 35  |     |     |     |   |    |   |    |
|   | 2     | 2018 | MDA     | 44       | 0                          | 44                  |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         | 44  |     |     |     |   |    |   |    |
|   | 2     | 2019 | MDA     | 39       | 0                          | 39                  |                               |     |     |     |     |     |     |     |     |     |                    |     |     |                              |     |     |     |     |     |     |         | 39  |     |     |     |   |    |   |    |
|   |       |      |         |          |                            |                     | OCT                           | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                          | DEC | JAN | FEB | MAR | APR | MAY | JUN     | JUL | AUG | SEP |     |   |    |   |    |



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|---|------------------|------|---------|-------------|---|------------------------------|------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|----|---|---------------------------------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |             |             |             |             |             |             |             |             |             |             |                    |             |             | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |             |             |             |             |             |             |             |   |    |   |                                 |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |   |                              | Fiscal Year 2016 |             |             |   |             |             |             |             |             |             |             |             |             |             | Fiscal Year 2017   |             |             |   |             |             |             |             |             |             |             |   |    |   | B<br>A<br>L<br>A<br>N<br>C<br>E |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>O<br>C<br>T<br>2<br>0<br>1<br>5 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2016                                |             |             |             |             |             |             |             |             |             |             | Calendar Year 2017 |             |             |   |             |             |             |             |             |             |             |   |    |   |                                 |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C        | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R   | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |             |   |    |   |                                 |
| SM-3 Block IA Procurement   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             |             |   |    |   |                                 |
|   | 1                | 2009 | MDA     |             | 11  | 11                           | 0                |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |   |    |   |                                 |
|   | 1                | 2010 | MDA     |             | 24  | 24                           | 0                |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |   |    |   |                                 |
|   | 1                | 2011 | MDA     |             | 22  | 22                           | 0                |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |   |    |   |                                 |
|   | 1                | 2012 | MDA     |             | 14  | 14                           | 0                |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |   |    |   |                                 |
| SM-3 Block IB Procurement   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             |             |   |    |   |                                 |
|   | 2                | 2012 | MDA     |             | 14  | 14                           | 0                |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |   |    |   |                                 |
|   | 2                | 2013 | MDA     |             | 33  | 24                           | 9                | 4           | -           | 5   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |   |    |   |                                 |
|   | 2                | 2014 | MDA     |             | 52  | 0                            | 52               | -           | -           | -   | 2           | -           | -           | -           | 2           | -           | -           | 14          | 6           | -           | -                  | 12          | 5           | 5   | 4           | 2           |             |             |             |             |             | 0 |    |   |                                 |
|   | 2                | 2015 | MDA     |             | 52  | 0                            | 52               | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | 2           | 1           | -           | -                  | -           | 2           | 6   | 3           | -           | 5           | 8           | 25          |             |             |   |    |   |                                 |
|   | 2                | 2016 | MDA     |             | 46  | 0                            | 46               |             |             |   |             |             |             |             |             |             |             | A           | -           | -           | -                  | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | - | 46 |   |                                 |
|   | 2                | 2017 | MDA     |             | 35  | 0                            | 35               |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             | A   | -           | -           | -           | -           | -           | -           | -           | - | -  | - | 35                              |
|   | 2                | 2018 | MDA     |             | 44  | 0                            | 44               |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 44          |   |    |   |                                 |
|   | 2                | 2019 | MDA     |             | 39  | 0                            | 39               |             |             |   |             |             |             |             |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 39          |   |    |   |                                 |
|   |                  |      |         |             |   |                              |                  | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C                                       | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V        | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B   | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |    |   |                                 |

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|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |             |             |             |             |             |             |                    |             |             | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |             |             |             |             |             |             |             |             |             |                                 |             |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |  |                              | Fiscal Year 2018   |             |             |   |             |             |             |             |             |             | Fiscal Year 2019   |             |             |   |             |             |             |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCE<br>PT<br>PRIOR<br>TO 1<br>OCT<br>2017 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2018 |             |             |   |             |             |             |             |             |             | Calendar Year 2019 |             |             |   |             |             |             |             |             |             |             |             |             |                                 |             |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V   | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G |                                 | S<br>E<br>P |
| SM-3 Block IA Procurement   |                  |      |         |             |  |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             |             |             |             |                                 |             |
|   | 1                | 2009 | MDA     | 11          | 11   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
|   | 1                | 2010 | MDA     | 24          | 24   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
|   | 1                | 2011 | MDA     | 22          | 22   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
|   | 1                | 2012 | MDA     | 14          | 14   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
| SM-3 Block IB Procurement   |                  |      |         |             |  |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             |             |             |             |                                 |             |
|   | 2                | 2012 | MDA     | 14          | 14   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
|   | 2                | 2013 | MDA     | 33          | 33   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
|   | 2                | 2014 | MDA     | 52          | 52   | 0                            |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 0           |             |             |                                 |             |
|   | 2                | 2015 | MDA     | 52          | 27   | 25                           | 3                  | -           | 9           | -   | -           | -           | -           | -           | -           | -           | -                  | -           | 13          |   |             |             |             |             |             |             |             | 0           |             |                                 |             |
|   | 2                | 2016 | MDA     | 46          | 0  | 46                           | -                  | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                  | 4           | -           | -   | -           | -           | -           | 3           | 3           | 6           | 5           | 13          | 3           | 9                               |             |
|   | 2                | 2017 | MDA     | 35          | 0  | 35                           | -                  | -           | -           | -   | -           | -           | -           | -           | -           | -           | -                  | -           | -           | -   | -           | -           | -           | -           | -           | -           | -           | -           | -           | 35                              |             |
|   | 2                | 2018 | MDA     | 44          | 0  | 44                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 44          |             |             |                                 |             |
|   | 2                | 2019 | MDA     | 39          | 0  | 39                           |                    |             |             |   |             |             |             |             |             |             |                    |             |             |   |             |             |             |             |             |             | 39          |             |             |                                 |             |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V   | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |             |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     | Date: May 2021  |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|---|-------|------|---------|----------|----------------------------|---------------------|------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                  |     |     | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |     |     |     |     |     |     |                  |     |     | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2020 |     |     |   |     |     |     |     |     |     | Fiscal Year 2021 |     |     |   |     |     |     |     |     |     |     |     |     |     | BALANCE |  |  |  |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT |                  |     |     | Calendar Year 2020                                |     |     |     |     |     |     |                  |     |     | Calendar Year 2021                                      |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   |       |      |         |          |                            |                     | OCT              | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG              | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |  |  |  |
| SM-3 Block IA Procurement   |       |      |         |          |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 1     | 2009 | MDA     | 11       | 11                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 1     | 2010 | MDA     | 24       | 24                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 1     | 2011 | MDA     | 22       | 22                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 1     | 2012 | MDA     | 14       | 14                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
| SM-3 Block IB Procurement   |       |      |         |          |                            |                     |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 2     | 2012 | MDA     | 14       | 14                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 2     | 2013 | MDA     | 33       | 33                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 2     | 2014 | MDA     | 52       | 52                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 2     | 2015 | MDA     | 52       | 52                         | 0                   |                  |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 2     | 2016 | MDA     | 46       | 37                         | 9                   | 9                |     |     |   |     |     |     |     |     |     |                  |     |     |   |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 2     | 2017 | MDA     | 35       | 0                          | 35                  | 4                | 10  | -   | 1   | 1   | 2   | 2   | 3   | 3   | 3   | 3                | -   | -   | -   | 3   | 3   | 2   | 4   | 4   | 4   | 4   | 4   | 12  |     |         |  |  |  |
|   | 2     | 2018 | MDA     | 44       | 0                          | 44                  | -                | -   | -   | -   | -   | -   | -   | -   | -   | -   | -                | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 39  |     |         |  |  |  |
|   | 2     | 2019 | MDA     | 39       | 0                          | 39                  | OCT              | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG              | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     | Date: May 2021  |     |     |     |     |     |     |     |     |     |         |     |   |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IB |     |     |     |     |     |     |     |     |     |         |     |   |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2022   |     |     |   |     |     |     |     |     |     | Fiscal Year 2023   |     |     |   |     |     |     |     |     |     |     |     |     | BALANCE |     |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 |     |     |   |     |     |     |     |     |     | Calendar Year 2023 |     |     |   |     |     |     |     |     |     |     |     |     |         |     |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |   |
| SM-3 Block IA Procurement   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     |   |
|   | 1     | 2009 | MDA     | 11       | 11                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 1     | 2010 | MDA     | 24       | 24                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 1     | 2011 | MDA     | 22       | 22                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 1     | 2012 | MDA     | 14       | 14                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
| SM-3 Block IB Procurement   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     |   |
|   | 2     | 2012 | MDA     | 14       | 14                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 2     | 2013 | MDA     | 33       | 33                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 2     | 2014 | MDA     | 52       | 52                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 2     | 2015 | MDA     | 52       | 52                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 2     | 2016 | MDA     | 46       | 46                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 2     | 2017 | MDA     | 35       | 35                         | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 2     | 2018 | MDA     | 44       | 32                         | 12                  | 4                  | 4   | 4   |   |     |     |     |     |     |     |                    |     |     |   |     |     |     |     |     |     |     |     |     |         | 0   |   |
|   | 2     | 2019 | MDA     | 39       | 0                          | 39                  | -                  | -   | -   | -   | -   | -   | 7   | -   | -   | 10  | -                  | -   | 10  | -   | -   | 12  |     |     |     |     |     |     |     |         | 0   |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV   | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |   |

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| <b>Exhibit P-21, Production Schedule:</b> PB 2022 Missile Defense Agency         |  |  |  |  |  |  |  | <b>Date:</b> May 2021  |  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17 |  |  |  | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD |  |  |  | <b>Item Number / Title [DODIC]:</b><br>Aegis BMD SM-3 Block IB |  |  |  |

| MFR<br>Ref<br># | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months) |                    |                      |                      |                       |                    |                      |                      |
|-----------------|---------------------------------|---------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
|                 |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial                       |                    |                      |                      | Reorder               |                    |                      |                      |
|                 |                                 |                                 |                |              | ALT<br>Prior to Oct 1         | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1 | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 |
| 1               | Raytheon - Tucson, AZ           |                                 |                |              | 4                             | 0                  | 30                   | 30                   | 4                     | 0                  | 30                   | 30                   |
| 2               | Raytheon - Tucson, AZ           | 1                               | 4              | 5            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |

"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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|---|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|---|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|
| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   | <b>Date:</b> May 2021              |                                   |                             |                                    |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |                                   |                             |                                    |                                   |                             |                                    | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD |                             |                                    |                                   |                             |                                    |                                   | <b>Item Number / Title [DODIC]:</b><br>Aegis BMD SM-3 Block IIA |                                    |                                   |                             |                                    |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    | <b>MDAP/MAIS Code:</b>            |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| <b>Resource Summary</b>   |                                   |                             |                                    | <b>Prior Years</b>                |                             | <b>FY 2020</b>                     |  | <b>FY 2021</b>              |                                    | <b>FY 2022 Base</b>               |                             | <b>FY 2022 OCO</b>                 |                                   | <b>FY 2022 Total</b>  |                                    |                                   |                             |                                    |  |
| Procurement Quantity <i>(Units in Each)</i>   |                                   |                             |                                    | 30                                |                             | -                                  |  | -                           |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  |                                   |                             |                                    | 851.058                           |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   |                                   |                             |                                    | 0.000                             |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   |                                   |                             |                                    | 851.058                           |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   |                                   |                             |                                    | 0.000                             |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| <b>Total Obligation Authority</b> <i>(\$ in Millions)</i>   |                                   |                             |                                    | <b>851.058</b>                    |                             | <b>0.000</b>                       |  | <b>0.000</b>                |                                    | <b>-</b>                          |                             | <b>-</b>                           |                                   | <b>-</b>  |                                    |                                   |                             |                                    |  |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| Initial Spares <i>(\$ in Millions)</i>  |                                   |                             |                                    | -                                 |                             | -                                  |  | -                           |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   |                                   |                             |                                    | 28.369                            |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -   |                                    |                                   |                             |                                    |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| <b>Cost Elements</b>  | <b>Prior Years</b>                |                             |                                    | <b>FY 2020</b>                    |                             |                                    | <b>FY 2021</b>   |                             |                                    | <b>FY 2022 Base</b>               |                             |                                    | <b>FY 2022 OCO</b>                |   |                                    | <b>FY 2022 Total</b>              |                             |                                    |  |
|   | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i>                        | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i>                                     | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> |  |
| Flyaway Cost  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| Recurring Cost  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| SM-3 Block IIA Procurement <sup>(†)</sup>   | 27.018                            | 30                          | 810.533                            | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <i>Subtotal: Recurring Cost</i>   | -                                 | -                           | 810.533                            | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <i>Subtotal: Flyaway Cost</i>   | -                                 | -                           | 810.533                            | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| Hardware Cost   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| Recurring Cost  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| Canisters Procurement SM-3 Block IIA  | 1.224                             | 32                          | 39.171                             | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <i>Subtotal: Recurring Cost</i>   | -                                 | -                           | 39.171                             | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <i>Subtotal: Hardware Cost</i>  | -                                 | -                           | 39.171                             | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| Support Cost  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| SM-3 Block IIA Production Engineering   | 1.354                             | 1                           | 1.354                              | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <i>Subtotal: Support Cost</i>   | -                                 | -                           | 1.354                              | -                                 | -                           | -                                  | -  | -                           | -                                  | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <b>Gross/Weapon System Cost</b>   | <b>28.369</b>                     | <b>30</b>                   | <b>851.058</b>                     | <b>0.000</b>                      | -                           | <b>0.000</b>                       | <b>0.000</b>   | -                           | <b>0.000</b>                       | -                                 | -                           | -                                  | -                                 | -   | -                                  | -                                 | -                           | -                                  |  |
| <b>Remarks:</b><br>N/A  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |
| <sup>(†)</sup> indicates the presence of a P-5a   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |   |                                    |                                   |                             |                                    |  |

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|  |             |      |                         |   |                 |               |                              |  |                            |                        |                               |                   |
|--|-------------|------|-------------------------|---|-----------------|---------------|------------------------------|--|----------------------------|------------------------|-------------------------------|-------------------|
| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                         |   |                 |               |                              | Date: May 2021   |                            |                        |                               |                   |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17      |             |      |                         | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |                 |               |                              | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IIA |                            |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location | Method/Type<br>or<br>Funding Vehicle              | Location of PCO | Award<br>Date | Date<br>of First<br>Delivery | Qty<br><i>(Each)</i>                                     | Unit Cost<br><i>(\$ M)</i> | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| SM-3 Block IIA Procurement <sup>(†)</sup>                                      |             | 2018 | Raytheon / Tucson, AZ   | SS / CPIF   | Dahlgren, VA    | Aug 2018      | Apr 2022                     | 20   | 26.848                     | Y                      |                               |                   |

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

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |  |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             | Date: May 2021   |             |             |             |             |             |             |             |             |             |             |             |   |   |   |    |
|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|---|----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |             |             |             |             |             |             |                    |             |             | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IIA |             |             |             |             |             |             |             |             |             |             |             |   |   |   |    |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |      |         |             |  |                              | Fiscal Year 2018   |             |             |   |             |             |             |             |             |             | Fiscal Year 2019   |             |             |  |             |             |             |             |             |             |             |             |             | BALANCE     |             |   |   |   |    |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2017 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2018 |             |             |   |             |             |             |             |             |             | Calendar Year 2019 |             |             |  |             |             |             |             |             |             |             |             |             |             |             |   |   |   |    |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G |             | S<br>E<br>P |   |   |   |    |
| SM-3 Block IIA Procurement  |                  |      |         |             |  |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |             |             |   |   |   |    |
| Prior Years Deliveries: 10  |                  |      |         |             |  |                              |                    |             |             |   |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |             |             |   |   |   |    |
|   | 1                | 2018 | MDA     |             | 20                                     | 0                            | 20                 |             |             |   |             |             |             |             |             |             |                    | A           | -           | -  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | - | - | - | 20 |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                                       | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |             |   |   |   |    |



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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     | Date: May 2021 |     |     |     |     |     |     |         |     |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|--|-----|-----|----------------|-----|-----|-----|-----|-----|-----|---------|-----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IIA |     |     |                |     |     |     |     |     |     |         |     |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2020   |     |     |   |     |     |     |     |     |     | Fiscal Year 2021   |     |     |  |     |     |                |     |     |     |     |     |     | BALANCE |     |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | Calendar Year 2020 |     |     |   |     |     |     |     |     |     | Calendar Year 2021 |     |     |  |     |     |                |     |     |     |     |     |     |         |     |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB            | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |
|   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |     |     |     |         |     |
| SM-3 Block IIA Procurement  |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |     |     |     |         |     |
| Prior Years Deliveries: 10  |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |     |     |     |         |     |
|   | 1     | 2018 | MDA     | 20       | 0                          | 20                  | -                  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -  | -   | -   | -              | -   | -   | -   | -   | -   | -   | 20      |     |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB            | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |

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|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|--|
| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |     |     |                    |     |     |     | Date: May 2021   |     |     |     |     |     |     |     |     |         |     |  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |     |     |     |     |     |     |     |     |                    |     |     |     | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IIA |     |     |     |     |     |     |     |     |         |     |  |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2022   |     |     |   |     |     |     |     |     |     |     |     | Fiscal Year 2023   |     |     |     |  |     |     |     |     |     |     |     |     | BALANCE |     |  |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 |     |     |   |     |     |     |     |     |     |     |     | Calendar Year 2023 |     |     |     |  |     |     |     |     |     |     |     |     |         |     |  |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP |     |         |     |  |
| SM-3 Block IIA Procurement  |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     |     |     |         |     |  |
| Prior Years Deliveries: 10  |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     |     |     |         |     |  |
|   | 1     | 2018 | MDA     |          | 20                         |                     | 0                  |     | 20  | -   | -   | -   | -   | -   | -   | 2   | 2   | 2   | 2                  | 2   | 2   | 2   | 2  | 2   | 2   | 2   | 2   | 2   | 0   |     |     |         |     |  |
|   |       |      |         |          |                            |                     |                    |     |     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL                | AUG | SEP | OCT | NOV  | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG     | SEP |  |

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|---|---------------------------------|---------------------------------|----------------|--------------|---|--------------------|----------------------|----------------------|--|--------------------|----------------------|----------------------|
| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                                 |                                 |                |              |   |                    |                      |                      | Date: May 2021   |                    |                      |                      |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                                 |                                 |                |              | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |                    |                      |                      | Item Number / Title [DODIC]:<br>Aegis BMD SM-3 Block IIA |                    |                      |                      |
| MFR<br>Ref<br>#   | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months)                     |                    |                      |                      |  |                    |                      |                      |
|   |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial   |                    |                      |                      | Reorder  |                    |                      |                      |
|   |                                 |                                 |                |              | ALT<br>Prior to Oct 1                             | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1                                    | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 |
| 1   | Raytheon - Tucson, AZ           | 1                               | 1              | 2            | 0   | 0                  | 0                    | 0                    | 0  | 0                  | 0                    | 0                    |

"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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| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2022 Missile Defense Agency  |  |  |  |  |  |   |  |  |  | Date: May 2021 |  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency |  |  |  |  |  | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |  |  |  |                |  |
| Program Elements for Code B Items: 0604881C, 0603892C   |  |  |  |  |  | Other Related Program Elements: 0603892C          |  |  |  |                |  |
| Line Item MDAP/MAIS Code: 362   |  |  |  |  |  |   |  |  |  |                |  |

| <b>Resource Summary</b>                                     | <b>Prior Years</b> | <b>FY 2020</b> | <b>FY 2021</b> | <b>FY 2022 Base</b> | <b>FY 2022 OCO</b> | <b>FY 2022 Total</b> | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025</b> | <b>FY 2026</b> | <b>To Complete</b> | <b>Total</b> |
|---|--------------------|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|--------------------|--------------|
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )          | 0.000              | 96.995         | 44.901         | 17.493              | -                  | 17.493               | -              | -              | -              | -              | -                  | -            |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )             | 0.000              | 96.995         | 44.901         | 17.493              | -                  | 17.493               | -              | -              | -              | -              | -                  | -            |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> ) | <b>0.000</b>       | <b>96.995</b>  | <b>44.901</b>  | <b>17.493</b>       | -                  | <b>17.493</b>        | -              | -              | -              | -              | -                  | -            |

**Description:**

The Missile Defense Agency awarded a five year Multi-Year Procurement (MYP) contract for 198 Standard Missile-3 Block IBs in FY 2019 through FY 2023 (final delivery FY 2026). This multiyear contract strategy uses Economic Order Quantity Advance Procurement (EOQ AP) funding to provide the U.S. Government maximum savings in price and delivery schedule. No EOQ AP was appropriated in FY 2019 with \$96.995 million requested was appropriated in FY 2020 and requested \$44.901 million Economic Order Quantity. This MYP requests \$44.901 million EOQ AP funding in FY 2021. This MYP request \$17.493 million EOQ AP funding in FY 2022 which results in savings for bulk purchases of materials and components to reduce material costs and for investments in productivity enhancements to reduce labor costs. The EOQ AP funding in FY 2020-FY 2022 supports the production of 127 All Up Rounds (AUR). EOQ AP funding will enable Raytheon Missile Defense Systems to bulk order materials with long lead times, and authorize equipment suppliers and subcontractors to do the same with sufficient lead time to support the planned delivery schedule within the context of the multiyear funding, prices, and cancellation ceilings.

Many components have minimum buy quantities which may not be met under single year procurements, which result in increased unit costs. EOQ AP quantities will allow the prime contractor and subcontractors at all tiers to exceed minimum order quantities and capture cost avoidance on these components. Long-term Agreements will provide price discounts to guarantee business. Given EOQ AP, suppliers will have increased business and stability. Suppliers will implement innovative processes and capital investments necessary to reduce costs which result in missile unit cost savings. As a result of these process innovations and capital investments, obsolescence risks and costs are also expected to be minimized.

Procuring at a guaranteed rate of minimum production will also yield cost avoidances. Allowing the contractor to manage facilities and subcontractors to a guaranteed production rate will reduce costs by allowing the Prime and subcontractors to engage in activities including, but not limited to, reducing the number of production set-ups.

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| <b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Missile Defense Agency  |                                       |       |                |  |  |  | <b>Date:</b> May 2021                    |  |  |
|--|---------------------------------------|-------|----------------|--|--|--|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency |                                       |       |                |  | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD |  |  |  |  |
| <b>Program Elements for Code B Items:</b> 0604881C, 0603892C   |                                       |       |                |  | <b>Other Related Program Elements:</b> 0603892C          |  |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362   |                                       |       |                |  |  |  |  |  |  |
| Exhibits Schedule  |                                       |       |                | Prior Years                              | FY 2020  | FY 2021                                  | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type   | Title*                                | ID CD | MDAP/MAIS Code | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                 | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-10   | Aegis BMD SM-3 Block IB               |       |                | 315 / 0.000                              | 32 / 96.995  | 40 / 44.901                              | 40 / 17.493                              | - / -                                    | 40 / 17.493                              |
| <b>P-40</b>  | <b>Total Gross/Weapon System Cost</b> |       |                | <b>345 / 0.000</b>                       | <b>32 / 96.995</b>                                       | <b>40 / 44.901</b>                       | <b>40 / 17.493</b>                       | <b>- / -</b>                             | <b>40 / 17.493</b>                       |
| *Title represents the P-10 Title for Advance Procurement.  |                                       |       |                |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.   |                                       |       |                |  |  |  |  |  |  |

**Justification:**  
EOQ AP procures long lead items in bulk for FY 2021 through FY 2023 lots in order to reduce the cost of subcontractor effort, material, and components as compared to single future fiscal year lot buys. The bulk advance buys enable greater production efficiencies and substantial cost savings over separate single year lot buys.

Advance Procurement (FY 2021 \$44.901 million and FY 2022 \$17.493 million) funding will procure the following major items for the FY 2022 through FY 2023 lots:

1. Kinetic Warhead Guidance Unit (29 month lead time) with estimated savings of 18% across MYP contract.
2. Third Stage Rocket Motors (24 month lead time) with estimated savings of 13% across MYP contract.
3. Throttling Divert Attitude Control System (25 month lead time) with estimated savings of 13% across MYP contract.
4. MK-72 Booster (25 month lead time) with estimated savings of 12% across MYP contract.
5. Guidance Section (Gravity Switch, Thermal Batteries) (23 month lead time) with estimated savings of 3% across MYP contract.
6. Sub-components and raw materials to facilitate production efficiencies including Integrated Dewar Assembly Substrates, Fiber Material, Beryllium Material, Electronic Components, Printed Wire Boards, Housings, Antennas and Shell Material.

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|--|--|---|-------------------------------------|--|---|---------------------------------|
| <b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2022 Missile Defense Agency |  |   |                                     |  | <b>Date:</b> May 2021                                 |                                 |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17   |  | <b>P-1 Line Item Number / Title:</b><br>MD09 / AEGIS BMD    |                                     |  | <b>P-5 Number / Title:</b><br>Aegis BMD SM-3 Block IB |                                 |
| <b>First System (2022) Award Date:</b><br>January 2018   |  | <b>First System (2022) Completion Date:</b><br>October 2020 |                                     | <b>Interval Between Systems:</b><br>1 Months |   |                                 |
| <b>Aegis BMD SM-3 Block IB</b>   |  | <b>Production Leadtime</b><br><i>(Months)</i>               | <b>Prior Years</b><br><i>(Each)</i> | <b>FY 2020</b><br><i>(Each)</i>              | <b>FY 2021</b><br><i>(Each)</i>                       | <b>FY 2022</b><br><i>(Each)</i> |
| Quantity   |  | 30  | 315                                 | 32   | 40  | 40                              |
|  |  |   |                                     |  |   |                                 |
| <b>Cost Elements</b>   |  | <b>When Required</b><br><i>(Months)</i>                     | <b>Prior Years</b><br><i>(\$ M)</i> | <b>FY 2020</b><br><i>(\$ M)</i>              | <b>FY 2021</b><br><i>(\$ M)</i>                       | <b>FY 2022</b><br><i>(\$ M)</i> |
| <b>EOQ</b>   |  |   |                                     |  |   |                                 |
| Aegis Advanced Procurement   |  | 0   | -                                   | 96.995                                       | 44.901  | 17.493                          |
| <b>Total: EOQ</b>  |  |   | <b>0.000</b>                        | <b>96.995</b>                                | <b>44.901</b>   | <b>17.493</b>                   |
| <b>Total Advance Procurement/Obligation Authority</b>  |  |   | <b>0.000</b>                        | <b>96.995</b>                                | <b>44.901</b>   | <b>17.493</b>                   |
|  |  |   |                                     |  |   |                                 |

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|   |               |   |                     |                           |                    |  |                                 |
|---|---------------|---|---------------------|---------------------------|--------------------|--|---------------------------------|
| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2022 Missile Defense Agency |               |   |                     |                           |                    |  | Date: May 2021                  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17   |               | P-1 Line Item Number / Title:<br>MD09 / AEGIS BMD |                     |                           |                    | P-5 Number / Title:<br>Aegis BMD SM-3 Block IB |                                 |
| Cost Elements   | QPA<br>(Each) | FY 2022   |                     |                           |                    |  |                                 |
|   |               | Production<br>Leadtime<br>(Months)                | Unit Cost<br>(\$ M) | Contract<br>Forecast Date | 2022 Qty<br>(Each) | For FY   | Total Cost<br>Request<br>(\$ M) |
| EOQ   |               |   |                     |                           |                    |  |                                 |
| Aegis Advanced Procurement  | 0             |   |                     |                           |                    |  | 17.493                          |
| Total: EOQ  |               |   |                     |                           |                    |  | 17.493                          |
| Total Advance Procurement/Obligation Authority  |               |   |                     |                           |                    |  | 17.493                          |

**Description:**  
The Advance Procurement (AP) funding provides economic order quantity (EOQ) to reduce the cost of subcontractor effort, material, and components enabling greater production efficiencies and substantial cost savings.



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**Exhibit P-40, Budget Line Item Justification:** PB 2022 Missile Defense Agency **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:**  
0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency

**P-1 Line Item Number / Title:**  
MD11 / BMDS Sensors

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0603881C, 0603884C **Other Related Program Elements:** 0603884C, 0603881C

**Line Item MDAP/MAIS Code:** 362

| Resource Summary  | Prior Years      | FY 2020       | FY 2021        | FY 2022 Base | FY 2022 OCO | FY 2022 Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
|---|------------------|---------------|----------------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|-------|
| Procurement Quantity ( <i>Units in Each</i> )               | 5                | -             | 1              | -            | -           | -             | -       | -       | -       | -       | -           | -     |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )          | 2,651.672        | 10.046        | 243.270        | 2.738        | -           | 2.738         | -       | -       | -       | -       | -           | -     |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )       | 0.000            | 0.000         | 0.000          | -            | -           | -             | -       | -       | -       | -       | -           | -     |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )             | 2,651.672        | 10.046        | 243.270        | 2.738        | -           | 2.738         | -       | -       | -       | -       | -           | -     |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )       | 0.000            | 0.000         | 0.000          | -            | -           | -             | -       | -       | -       | -       | -           | -     |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> ) | <b>2,651.672</b> | <b>10.046</b> | <b>243.270</b> | <b>2.738</b> | -           | <b>2.738</b>  | -       | -       | -       | -       | -           | -     |

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

|   |         |       |         |   |   |   |   |   |   |   |            |            |
|---|---------|-------|---------|---|---|---|---|---|---|---|------------|------------|
| Initial Spares ( <i>\$ in Millions</i> )                | 10.901  | -     | -       | - | - | - | - | - | - | - | -          | -          |
| Flyaway Unit Cost ( <i>\$ in Millions</i> )             | 172.502 | -     | -       | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> ) | 530.334 | 0.000 | 243.270 | - | - | - | - | - | - | - | -          | -          |

## Description:

The Army Navy/Transportable Radar Surveillance and Control (AN/TPY-2) radar is an integral component of the Missile Defense System (MDS) layered network of sensors. It is easily transported and can be configured to operate as either a Terminal High Altitude Area Defense (THAAD) Fire Unit Radar (terminal mode) or Forward-Based Radar. The forward-based AN/TPY-2 provides detection and tracking during the boost phase. This significantly reduces the uncertainty in target discrimination and reaction time, increasing the probability of a successful MDS engagement. In forward-based mode, the AN/TPY-2 also provides acquisition and track data via the MDS Command, Control, Battle Management and Communications and Link 16 to the Aegis missile defense system for cueing. The AN/TPY-2 used in terminal mode is an integral component of the THAAD Battery. The THAAD battery radar is capable of tracking multiple threats and multiple interceptors during engagements in the terminal phase. It provides surveillance, acquisition, track, discrimination, interceptor communications, and hit assessment data collection for fire control.

Prior year procurement funding acquired five AN/TPY-2 Radars required to complete the THAAD Battery acquisitions. "Procurement Quantity" and "Flyaway Unit Cost" represent AN/TPY-2 radar systems ((i.e. one Antenna Equipment Unit (AEU), one Cooling Equipment Unit (CEU), one Electronic Equipment Unit (EEU), and two Prime Power Units (PPU)) only, but the "Net Procurement" cost plus the Initial Spares amount includes the costs of all hardware.

The AN/TPY-2 EEU Modification Kits and Radar Field Upgrade Kits provided updated processing capabilities and added a cybersecurity server in the EEUs in both Terminal and Forward-based modes. The AEU transformers include design improvements to extend the life of this mission critical component.

The secure server procurement updates the existing servers and enhances cybersecurity protection for the fleet.

The Change Notices procure CEU modernization kits and bring the fleets CEUs into a common, more reliable configuration.

The Digital Receiver/Exciter (DREX) redesign kit with Arbitrary Waveform Generator (AWFG) procurement will upgrade from the current analog Receiver/Exciter (REX) technology to a modern digital capability increasing reliability and spares availability for the fleet.

The AEU Transformer and PPU procurement addressed the obsolescence in major end items and was completed in FY 2020.

The FY 2021 Congressional Plus Up (CPU) procures one (1) AN/TPY-2 Radar which includes one AEU, one CEU, one EEU, and two PPUs.

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                                       |             |  |                |  |   |  | <b>Date:</b> May 2021                    |  |  |
|---|---------------------------------------|-------------|--|----------------|--|---|--|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency        |                                       |             |  |                |  | <b>P-1 Line Item Number / Title:</b><br>MD11 / BMDS Sensors |  |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                                       |             | <b>Program Elements for Code B Items:</b> 0603881C, 0603884C |                |  | <b>Other Related Program Elements:</b> 0603884C, 0603881C   |  |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                                       |             |  |                |  |   |  |  |  |  |
| Exhibits Schedule   |                                       |             |  |                | Prior Years                              | FY 2020   | FY 2021                                  | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type  | Title*                                | Subexhibits | ID CD  | MDAP/MAIS Code | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                    | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5   | BMDS AN/TPY-2 Radars                  | P-5a, P-21  | A  |                | 5 / 2,651.672                            | - / 10.046  | 1 / 243.270                              | - / 2.738                                | - / -                                    | - / 2.738                                |
| <b>P-40</b>   | <b>Total Gross/Weapon System Cost</b> |             |  |                | <b>5 / 2,651.672</b>                     | <b>- / 10.046</b>   | <b>1 / 243.270</b>                       | <b>- / 2.738</b>                         | <b>- / -</b>                             | <b>- / 2.738</b>                         |
| <small>*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.</small> |                                       |             |  |                |  |   |  |  |  |  |
| <small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>   |                                       |             |  |                |  |   |  |  |  |  |

**Justification:**

FY 2021 through FY 2026 base procurement provides:

- Procure one (1) complete AN/TPY-2 Radar which includes one AEU, one CEU, one EEU, and two PPUs.
- Secure servers to upgrade the existing servers and enhance cybersecurity protection for the fleet.
- The Change Notice procurement will procure CEU modernization kits and bring the fleets CEUs into a common , more reliable configuration.
- DREX redesign kits with AWFG to upgrade the current analog REX technology to a modern digital capability increasing reliability and availability to the fleet.
- The AEU Transformer and PPU procurement addressed the obsolescence in major end items, and was completed in FY 2020.

The decrease from FY 2021 to FY 2022 reflects the procurement of (1) AN/TPY-2 Radar with FY 2021 CPU.

Procurement quantity above reflects procurement of complete radars only. Seven (7) of the twelve (12) AN/TPY-2 Radars delivered to date were funded with Research Development Test and Evaluation in Program Element 0603884C, thus not included in the costs above.

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|--|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|--|--|
| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               | Date: May 2021                                       |                     |               |                      |                     |               |                      |  |  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |  |                     |               |                      |                     |               | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |                     |               |                      |                     |               | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |                     |               |                      |                     |               |                      |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |  |                     |               |                      |                     |               |  |                     |               | MDAP/MAIS Code:      |                     |               |  |                     |               |                      |                     |               |                      |  |  |
| Resource Summary   |  |                     |               | Prior Years          |                     |               | FY 2020  |                     |               | FY 2021              |                     |               | FY 2022 Base   |                     |               | FY 2022 OCO          |                     |               | FY 2022 Total        |  |  |
| Procurement Quantity <i>(Units in Each)</i>  |  |                     |               | 5                    |                     |               | -  |                     |               | 1                    |                     |               | -  |                     |               | -                    |                     |               | -                    |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>   |  |                     |               | 2,651.672            |                     |               | 10.046   |                     |               | 243.270              |                     |               | 2.738  |                     |               | -                    |                     |               | 2.738                |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>  |  |                     |               | 0.000                |                     |               | 0.000  |                     |               | 0.000                |                     |               | -  |                     |               | -                    |                     |               | -                    |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>  |  |                     |               | 2,651.672            |                     |               | 10.046   |                     |               | 243.270              |                     |               | 2.738  |                     |               | -                    |                     |               | 2.738                |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>  |  |                     |               | 0.000                |                     |               | 0.000  |                     |               | 0.000                |                     |               | -  |                     |               | -                    |                     |               | -                    |  |  |
| Total Obligation Authority <i>(\$ in Millions)</i>   |  |                     |               | 2,651.672            |                     |               | 10.046   |                     |               | 243.270              |                     |               | 2.738  |                     |               | -                    |                     |               | 2.738                |  |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |  |
| Initial Spares <i>(\$ in Millions)</i>   |  |                     |               | -                    |                     |               | -  |                     |               | -                    |                     |               | -  |                     |               | -                    |                     |               | -                    |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>  |  |                     |               | 530.334              |                     |               | 0.000  |                     |               | 243.270              |                     |               | -  |                     |               | -                    |                     |               | -                    |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |  |
| Cost Elements  |  | Prior Years         |               |                      | FY 2020             |               |  | FY 2021             |               |                      | FY 2022 Base        |               |  | FY 2022 OCO         |               |                      | FY 2022 Total       |               |                      |  |  |
|  |  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                                 | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                                 | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |  |  |
| Hardware Cost  |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |  |
| Recurring Cost   |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |  |
| AN/TPY-2 Major End Item CN Kits <sup>(†)</sup>   |  | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | 2.738               | 1             | 2.738  | -                   | -             | -                    | 2.738               | 1             | 2.738                |  |  |
| AN/TPY-2 Secure Servers <sup>(†)</sup>   |  | 1.862               | 2             | 3.724                | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| Antenna Equipment Unit (AEU) <sup>(†)</sup>  |  | 130.482             | 5             | 652.411              | -                   | -             | -  | 164.040             | 1             | 164.040              | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>  |  | 1.132               | 8             | 9.055                | 0.887               | 2             | 1.774  | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| COBRA DANE Transmitter Group Replacement <sup>(†)</sup>  |  | 9.704               | 2             | 19.408               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| Cooling Equipment Unit (CEU) <sup>(†)</sup>  |  | 6.996               | 5             | 34.982               | -                   | -             | -  | 13.660              | 1             | 13.660               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| Critical Spares <sup>(†)</sup>   |  | 9.742               | 3             | 29.227               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| Electronic Equipment Unit (EEU) <sup>(†)</sup>   |  | 20.914              | 5             | 104.572              | -                   | -             | -  | 29.355              | 1             | 29.355               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
| Electronic Equipment Unit (EEU) Modification Kit <sup>(†)</sup>  |  | 4.850               | 5             | 24.248               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |  |  |
|  |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |  |

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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency                                     |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      | Date: May 2021                                       |               |                      |                     |               |                      |
|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17                      |                     |               |                      |                     |               | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |                     |               |                      |                     |               |                      | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |               |                      |                     |               |                      |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |  |                     |               |                      | MDAP/MAIS Code:     |               |                      |  |               |                      |                     |               |                      |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |
| Cost Elements  | Prior Years         |               |                      | FY 2020             |               |  | FY 2021             |               |                      | FY 2022 Base        |               |                      | FY 2022 OCO  |               |                      | FY 2022 Total       |               |                      |
|  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                                 | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)                                  | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |
| Float Antenna Equipment Unit (AEU) <sup>(†)</sup>  | 62.019              | 1             | 62.019               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Float Cooling Equipment Unit (CEU) <sup>(†)</sup>  | 12.929              | 2             | 25.857               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Float Electronic Equipment Unit (EEU) <sup>(†)</sup>   | 21.491              | 2             | 42.982               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Forward-Based Mode Prime Power Units (PPU) <sup>(†)</sup>                                      | 10.985              | 4             | 43.940               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Prime Power Unit (PPUs - 2 each radar system) <sup>(†)</sup>                                   | 14.109              | 5             | 70.545               | -                   | -             | -  | 18.108              | 2             | 36.215               | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Transmit/Receive Integrated Microwave Module (TRIMMs) <sup>(†)</sup>                           | 59.840              | 1             | 59.840               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| †Radar Field Upgrade (RAFU) Kit  | 1,450.000           | 1             | 1,450.000            | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Subtotal: Recurring Cost   | -                   | -             | 2,632.810            | -                   | -             | 1.774  | -                   | -             | 243.270              | -                   | -             | 2.738                | -  | -             | -                    | -                   | -             | 2.738                |
| Non Recurring Cost   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |
| Antenna Equipment Unit (AEU) Radome <sup>(†)</sup>   | -                   | -             | -                    | 1.525               | 1             | 1.525  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Antenna Equipment Unit (AEU) Transformer Hoses   | -                   | -             | -                    | 0.001               | 180           | 0.151  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| CEU Fan Motors <sup>(†)</sup>  | -                   | -             | -                    | 0.122               | 24            | 2.933  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Contractor Certification <sup>(†)</sup>  | 2.862               | 1             | 2.862                | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits <sup>(†)</sup>                             | -                   | -             | -                    | 0.242               | 1             | 0.242  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Retrofit Firewall Kits <sup>(†)</sup>  | -                   | -             | -                    | 0.092               | 37            | 3.421  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Subtotal: Non Recurring Cost   | -                   | -             | 2.862                | -                   | -             | 8.272  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |
| Subtotal: Hardware Cost  | -                   | -             | 2,635.672            | -                   | -             | 10.046   | -                   | -             | 243.270              | -                   | -             | 2.738                | -  | -             | -                    | -                   | -             | 2.738                |
| Support Cost   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |
| Program Support*   | 16.000              | 1             | 16.000               | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |

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| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |                      |   |               |                      |                        |               |                      |                     | <b>Date:</b> May 2021                                       |                      |                     |               |                      |
|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|------------------------|---------------|----------------------|---------------------|---|----------------------|---------------------|---------------|----------------------|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |                     |               |                      |                     |               |                      | <b>P-1 Line Item Number / Title:</b><br>MD11 / BMDS Sensors |               |                      |                        |               |                      |                     | <b>Item Number / Title [DODIC]:</b><br>BMDS AN/TPY-2 Radars |                      |                     |               |                      |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |                      |   |               |                      | <b>MDAP/MAIS Code:</b> |               |                      |                     |   |                      |                     |               |                      |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |                     |               |                      |                     |               |                      |   |               |                      |                        |               |                      |                     |   |                      |                     |               |                      |
| Cost Elements   | Prior Years         |               |                      | FY 2020             |               |                      | FY 2021   |               |                      | FY 2022 Base           |               |                      | FY 2022 OCO         |   |                      | FY 2022 Total       |               |                      |
|   | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)   | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)    | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each)   | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |
| <i>Subtotal: Support Cost</i>   | -                   | -             | 16.000               | -                   | -             | -                    | -   | -             | -                    | -                      | -             | -                    | -                   | -   | -                    | -                   | -             | -                    |
| <b>Gross/Weapon System Cost</b>   | 530.334             | 5             | 2,651.672            | 0.000               | -             | 10.046               | 243.270   | 1             | 243.270              | -                      | -             | 2.738                | -                   | -   | -                    | -                   | -             | 2.738                |
| <p><b>Remarks:</b><br/> AN/TPY-2 Radar consists of one Antenna Equipment Unit (AEU), one Cooling Equipment Unit (CEU), one Electronic Equipment Unit (EEU) and two Prime Power Units (PPUs).</p> <p>Procurement quantity above reflects procurement of complete radars only. Seven (7) of the twelve (12) AN/TPY-2 Radars delivered to date were funded with Research Development Test and Evaluation (RDT&amp;E) in Program Element (PE) 0603884C, thus not included in the costs above.</p> <p>(t) indicates the presence of a P-5a</p> |                     |               |                      |                     |               |                      |   |               |                      |                        |               |                      |                     |   |                      |                     |               |                      |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                             |                                      |                     |               |                              | Date: May 2021               |                     |                        |                               |                   |
|--|-------------|------|-----------------------------|--------------------------------------|---------------------|---------------|------------------------------|------------------------------|---------------------|------------------------|-------------------------------|-------------------|
| Appropriation / Budget Activity / Budget Sub Activity:                         |             |      |                             | P-1 Line Item Number / Title:        |                     |               |                              | Item Number / Title [DODIC]: |                     |                        |                               |                   |
| 0300D / 01 / 17  |             |      |                             | MD11 / BMDS Sensors                  |                     |               |                              | BMDS AN/TPY-2 Radars         |                     |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location     | Method/Type<br>or<br>Funding Vehicle | Location of PCO     | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each)                | Unit Cost<br>(\$ M) | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| AN/TPY-2 Major End Item CN Kits - 1 <sup>(†)</sup>                             |             | 2022 | Raytheon / Woburn, MA       | C / BA                               | MDA, Huntsville, AL | Oct 2021      | Apr 2022                     | 1                            | 2.738               | N                      |                               | May 2021          |
| AN/TPY-2 Secure Servers - Lot <sup>(†)</sup>                                   |             | 2019 | Raytheon / Woburn, MA       | C / BA                               | MDA, Huntsville, AL | Feb 2019      | Aug 2020                     | 2                            | 1.862               | N                      |                               | Jun 2018          |
| Antenna Equipment Unit (AEU) <sup>(†)</sup>                                    |             | 2010 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Jun 2010      | Dec 2012                     | 1                            | 144.290             | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) <sup>(†)</sup>                                    |             | 2012 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2011      | Jun 2014                     | 2                            | 144.090             | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) - 1 <sup>(†)</sup>                                |             | 2013 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2012      | Jun 2015                     | 1                            | 126.400             | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) - 2 <sup>(†)</sup>                                |             | 2013 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2013      | Jun 2016                     | 1                            | 126.400             | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>                        |             | 2015 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2014      | Sep 2015                     | 3                            | 1.775               | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>                        |             | 2016 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2015      | Sep 2016                     | 1                            | 0.410               | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>                        |             | 2017 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2016      | Sep 2017                     | 1                            | 0.919               | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>                        |             | 2018 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2017      | Sep 2018                     | 1                            | 0.947               | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>                        |             | 2019 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2018      | Sep 2019                     | 2                            | 0.978               | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Transformer <sup>(†)</sup>                        |             | 2020 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2019      | Sep 2020                     | 2                            | 0.869               | N                      |                               |                   |
| COBRA DANE Transmitter Group Replacement <sup>(†)</sup>                        |             | 2018 | Raytheon / Washington, D.C. | C / IDIQ                             | MDA, Huntsville, AL | Apr 2018      | Apr 2019                     | 1                            | 11.000              | Y                      |                               |                   |
| COBRA DANE Transmitter Group Replacement <sup>(†)</sup>                        |             | 2019 | Raytheon / Washington, D.C. | C / IDIQ                             | MDA, Huntsville, AL | Jun 2019      | Jun 2020                     | 1                            | 8.000               | Y                      |                               |                   |
| Cooling Equipment Unit (CEU) <sup>(†)</sup>                                    |             | 2010 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Jun 2010      | Dec 2012                     | 1                            | 7.800               | Y                      |                               |                   |
| Cooling Equipment Unit (CEU) <sup>(†)</sup>                                    |             | 2012 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2011      | Jun 2014                     | 2                            | 7.668               | Y                      |                               |                   |
| Cooling Equipment Unit (CEU) - 1 <sup>(†)</sup>                                |             | 2013 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2012      | Jun 2015                     | 1                            | 6.802               | Y                      |                               |                   |
| Cooling Equipment Unit (CEU) - 2 <sup>(†)</sup>                                |             | 2013 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2013      | Jun 2016                     | 1                            | 6.802               | Y                      |                               |                   |
| Critical Spares <sup>(†)</sup>   |             | 2014 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | May 2014      | May 2015                     | 1                            | 14.361              | Y                      |                               |                   |
| Critical Spares <sup>(†)</sup>   |             | 2015 | Raytheon / Woburn, MA       | SS / FFP                             | MDA, Huntsville, AL | Dec 2014      | Dec 2015                     | 1                            | 11.391              | Y                      |                               |                   |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                         |                                      |                     |               |                              | Date: May 2021               |                     |                        |                               |                   |
|--|-------------|------|-------------------------|--------------------------------------|---------------------|---------------|------------------------------|------------------------------|---------------------|------------------------|-------------------------------|-------------------|
| Appropriation / Budget Activity / Budget Sub Activity:                         |             |      |                         | P-1 Line Item Number / Title:        |                     |               |                              | Item Number / Title [DODIC]: |                     |                        |                               |                   |
| 0300D / 01 / 17  |             |      |                         | MD11 / BMDS Sensors                  |                     |               |                              | BMDS AN/TPY-2 Radars         |                     |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location | Method/Type<br>or<br>Funding Vehicle | Location of PCO     | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each)                | Unit Cost<br>(\$ M) | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Critical Spares <sup>(†)</sup>   |             | 2016 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2015      | Dec 2016                     | 1                            | 3.475               | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) <sup>(†)</sup>                                 |             | 2010 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Jun 2010      | Dec 2012                     | 1                            | 23.400              | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) <sup>(†)</sup>                                 |             | 2012 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2011      | Jun 2014                     | 2                            | 23.000              | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) - 1 <sup>(†)</sup>                             |             | 2013 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2012      | Jun 2015                     | 1                            | 20.220              | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) - 2 <sup>(†)</sup>                             |             | 2013 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2013      | Jun 2016                     | 1                            | 20.220              | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) Modification Kit <sup>(†)</sup>                |             | 2015 | Raytheon / Woburn, MA   | SS / FFP                             | M                   | Dec 2014      | Jun 2015                     | 3                            | 2.795               | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) Modification Kit <sup>(†)</sup>                |             | 2016 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Mar 2016      | Sep 2016                     | 1                            | 3.183               | Y                      |                               |                   |
| Electronic Equipment Unit (EEU) Modification Kit <sup>(†)</sup>                |             | 2017 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2016      | Jun 2017                     | 1                            | 3.134               | Y                      |                               |                   |
| Float Antenna Equipment Unit (AEU) <sup>(†)</sup>                              |             | 2016 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2015      | Jun 2018                     | 1                            | 62.019              | Y                      |                               |                   |
| Float Cooling Equipment Unit (CEU) <sup>(†)</sup>                              |             | 2012 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2011      | Jun 2014                     | 1                            | 7.140               | Y                      |                               |                   |
| Float Cooling Equipment Unit (CEU) <sup>(†)</sup>                              |             | 2014 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Sep 2014      | Dec 2015                     | 1                            | 18.721              | Y                      |                               |                   |
| Float Electronic Equipment Unit (EEU) <sup>(†)</sup>                           |             | 2012 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2011      | Jun 2014                     | 1                            | 20.260              | Y                      |                               |                   |
| Float Electronic Equipment Unit (EEU) <sup>(†)</sup>                           |             | 2014 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Sep 2014      | Sep 2016                     | 1                            | 22.718              | Y                      |                               |                   |
| Forward-Based Mode Prime Power Units (PPU) <sup>(†)</sup>                      |             | 2013 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2012      | Dec 2014                     | 4                            | 10.985              | Y                      |                               |                   |
| Prime Power Unit (PPUs - 2 each radar system) <sup>(†)</sup>                   |             | 2010 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Jun 2010      | Dec 2012                     | 1                            | 15.600              | Y                      |                               |                   |
| Prime Power Unit (PPUs - 2 each radar system) <sup>(†)</sup>                   |             | 2012 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2011      | Jun 2014                     | 2                            | 15.336              | Y                      |                               |                   |
| Prime Power Unit (PPUs - 2 each radar system) - 1 <sup>(†)</sup>               |             | 2013 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2012      | Jun 2015                     | 1                            | 13.895              | Y                      |                               |                   |
| Prime Power Unit (PPUs - 2 each radar system) - 2 <sup>(†)</sup>               |             | 2013 | Raytheon / Woburn, MA   | SS / FFP                             | MDA, Huntsville, AL | Dec 2013      | Jun 2016                     | 1                            | 13.895              | Y                      |                               |                   |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                         |  |                     |               |                              |               | Date: May 2021                                       |                        |                               |                   |
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| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17      |             |      |                         | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |                     |               |                              |               | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location | Method/Type<br>or<br>Funding Vehicle                 | Location of PCO     | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each) | Unit Cost<br>(\$ M)                                  | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Transmit/Receive Integrated Microwave Module (TRIMMs) <sup>(†)</sup>           |             | 2015 | Raytheon / Woburn, MA   | SS / FFP   | MDA, Huntsville, AL | Dec 2014      | Jun 2016                     | 1             | 59.840   | Y                      |                               |                   |
| Antenna Equipment Unit (AEU) Radome - Raytheon <sup>(†)</sup>                  |             | 2020 | Raytheon / Huntsville   | C / BA   | Huntsville, AL      | Jan 2020      | Sep 2020                     | 1             | 1.525  | N                      |                               | May 2019          |
| CEU Fan Motors - Raytheon <sup>(†)</sup>                                       |             | 2020 | Raytheon / Huntsville   | C / BA   | Huntsville, AL      | Dec 2019      | Sep 2020                     | 24            | 0.122  | N                      |                               | Oct 2019          |
| Contractor Certification <sup>(†)</sup>  |             | 2015 | Raytheon / Woburn, MA   | SS / FFP   | MDA, Huntsville, AL | Dec 2014      | Dec 2015                     | 1             | 2.862  | Y                      |                               |                   |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon <sup>(†)</sup>  |             | 2020 | Rayteon / Huntsville    | C / BA   | Huntsville, AL      | Feb 2020      | Sep 2020                     | 1             | 0.242  | N                      |                               | Oct 2019          |
| Retrofit Firewall Kits - Raytheon <sup>(†)</sup>                               |             | 2020 | Raytheon / Huntsville   | C / BA   | Huntsville, AL      | Dec 2019      | Sep 2020                     | 37            | 0.092  | N                      |                               | Nov 2019          |

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

**Remarks:**  
N/A



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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     | Date: May 2021                                       |     |     |     |     |     |     |     |    |         |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|----|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |     |     |     |     |     |     |     |     |                    |     |     |     | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |     |     |     |     |     |     |     |    |         |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2010   |     |     |  |     |     |     |     |     |     |     |     | Fiscal Year 2011   |     |     |     |  |     |     |     |     |     |     |     |    | BALANCE |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2009 | BAL DUE AS OF 1 OCT | Calendar Year 2010 |     |     |  |     |     |     |     |     |     |     |     | Calendar Year 2011 |     |     |     |  |     |     |     |     |     |     |     |    |         |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP |    |         |
| Contractor Certification  |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     |     |    |         |
|   | 18    | 2015 | MDA     | 1        | 0                          | 1                   |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     | 1   |    |         |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon            |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     |     |    |         |
|   | 19    | 2020 | MDA     | 1        | 0                          | 1                   |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     | 1   |    |         |
| Retrofit Firewall Kits - Raytheon   |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |     |     |                    |     |     |     |  |     |     |     |     |     |     |     |    |         |
|   | 20    | 2020 | MDA     | 37       | 0                          | 37                  | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP | 37 |         |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             | Date: May 2021                                       |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|--|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|---|---|---|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |  |                              | Fiscal Year 2012   |             |             |  |             |             |             |             |             |             | Fiscal Year 2013 |             |             |  |             |             |                    |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |   |   |   |   |   |   |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2011 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2012 |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             | Calendar Year 2013 |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B        | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G |                                 | S<br>E<br>P |   |   |   |   |   |   |
| AN/TPY-2 Major End Item CN Kits - 1                                       |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 1                | 2022 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
| AN/TPY-2 Secure Servers - Lot   |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 2                | 2019 | MDA     | 2           | 0                                      | 2                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 2           |   |   |   |   |   |   |
| Antenna Equipment Unit (AEU)  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 3                | 2010 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -                | -           | -           | -  | 1           |             |                    |             |             |             |             |             |             |                                 |             | 0 |   |   |   |   |   |
|   | 3                | 2012 | MDA     | 2           | 0                                      | 2                            | A                  |             | -           | -  | -           | -           | -           | -           | -           | -           | -                | -           | -           | -  | -           | -           | -                  | -           | -           | -           | -           | -           | -           | -                               | 2           |   |   |   |   |   |   |
| Antenna Equipment Unit (AEU) - 1  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 3                | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             | A                  | -           | -           | -           | -           | -           | -           | -                               | -           | - | - | - | - | - | 1 |
| Antenna Equipment Unit (AEU) - 2  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 3                | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
| Antenna Equipment Unit (AEU) Transformer                                  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 4                | 2015 | MDA     | 3           | 0                                      | 3                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 3           |   |   |   |   |   |   |
|   | 4                | 2016 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
|   | 4                | 2017 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
|   | 4                | 2018 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
|   | 4                | 2019 | MDA     | 2           | 0                                      | 2                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 2           |   |   |   |   |   |   |
|   | 4                | 2020 | MDA     | 2           | 0                                      | 2                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 2           |   |   |   |   |   |   |
| COBRA DANE Transmitter Group Replacement                                  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 5                | 2018 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
|   | 5                | 2019 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
| Cooling Equipment Unit (CEU)  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 6                | 2010 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -                | -           | -           | -  | 1           |             |                    |             |             |             |             |             |             |                                 |             | 0 |   |   |   |   |   |
|   | 6                | 2012 | MDA     | 2           | 0                                      | 2                            | A                  |             | -           | -  | -           | -           | -           | -           | -           | -           | -                | -           | -           | -  | -           | -           | -                  | -           | -           | -           | -           | -           | -           | -                               | 2           |   |   |   |   |   |   |
| Cooling Equipment Unit (CEU) - 1  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 6                | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             | A                  | -           | -           | -           | -           | -           | -           | -                               | -           | - | - | - | - | - | 1 |
| Cooling Equipment Unit (CEU) - 2  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 6                | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
| Critical Spares   |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   | 7                | 2014 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
|   | 7                | 2015 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
|   | 7                | 2016 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 | 1           |   |   |   |   |   |   |
| Electronic Equipment Unit (EEU)   |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |                    |             |             |             |             |             |             |                                 |             |   |   |   |   |   |   |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B        | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |             |   |   |   |   |   |   |

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|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|------------------------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|---|--|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:            |                  |      |         |             |  |                              |                    |             |             | P-1 Line Item Number / Title: |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]: |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
| 0300D / 01 / 17   |                  |      |         |             |  |                              |                    |             |             | MD11 / BMDS Sensors           |             |             |             |             |             |             |                  |             |             | BMDS AN/TPY-2 Radars         |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
| Cost Elements<br>(Units in Each)                                  |                  |      |         |             |  |                              | Fiscal Year 2012   |             |             |                               |             |             |             |             |             |             | Fiscal Year 2013 |             |             |                              |             |             |             |                    |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |   |  |  |  |  |  |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2011 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2012 |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             | Calendar Year 2013 |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V                  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R        | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G |                                 | S<br>E<br>P |   |  |  |  |  |  |
|   | 8                | 2010 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -                             | -           | -           | -           | -           | -           | -           | -                | -           | -           | 1                            |             |             |             |                    |             |             |             |             |             |                                 |             | 0 |  |  |  |  |  |
|   | 8                | 2012 | MDA     | 2           | 0                                      | 2                            |                    |             | A           | -                             | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | -           | 2 |  |  |  |  |  |
| Electronic Equipment Unit (EEU) - 1                               |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 8                | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             | A                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | -           | 1 |  |  |  |  |  |
| Electronic Equipment Unit (EEU) - 2                               |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 8                | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Electronic Equipment Unit (EEU) Modification Kit                  |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 9                | 2015 | MDA     | 3           | 0                                      | 3                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 3           |   |  |  |  |  |  |
|   | 9                | 2016 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
|   | 9                | 2017 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Float Antenna Equipment Unit (AEU)                                |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 10               | 2016 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Float Cooling Equipment Unit (CEU)                                |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 11               | 2012 | MDA     | 1           | 0                                      | 1                            |                    |             |             | A                             | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | 1           |   |  |  |  |  |  |
|   | 11               | 2014 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Float Electronic Equipment Unit (EEU)                             |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 12               | 2012 | MDA     | 1           | 0                                      | 1                            |                    |             |             | A                             | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | 1           |   |  |  |  |  |  |
|   | 12               | 2014 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Forward-Based Mode Prime Power Units (PPU)                        |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 13               | 2013 | MDA     | 4           | 0                                      | 4                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             | A                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | 4           |   |  |  |  |  |  |
| Prime Power Unit (PPUs - 2 each radar system)                     |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 14               | 2010 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -                             | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                            | 1           |             |             |                    |             |             |             |             |             |                                 | 0           |   |  |  |  |  |  |
|   | 14               | 2012 | MDA     | 2           | 0                                      | 2                            |                    |             | A           | -                             | -           | -           | -           | -           | -           | -           | -                | -           | -           | -                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | 2           |   |  |  |  |  |  |
| Prime Power Unit (PPUs - 2 each radar system) - 1                 |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 14               | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             | A                            | -           | -           | -           | -                  | -           | -           | -           | -           | -           | -                               | 1           |   |  |  |  |  |  |
| Prime Power Unit (PPUs - 2 each radar system) - 2                 |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 14               | 2013 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Transmit/Receive Integrated Microwave Module (TRIMMs)             |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 15               | 2015 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| Antenna Equipment Unit (AEU) Radome - Raytheon                    |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 16               | 2020 | MDA     | 1           | 0                                      | 1                            |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 1           |   |  |  |  |  |  |
| CEU Fan Motors - Raytheon   |                  |      |         |             |  |                              |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 |             |   |  |  |  |  |  |
|   | 17               | 2020 | MDA     | 24          | 0                                      | 24                           |                    |             |             |                               |             |             |             |             |             |             |                  |             |             |                              |             |             |             |                    |             |             |             |             |             |                                 | 24          |   |  |  |  |  |  |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N                   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V                  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R        | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |             |   |  |  |  |  |  |

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|---|-------|------|---------|----------|----------------------------|---------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|------------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|---------|
| Appropriation / Budget Activity / Budget Sub Activity:            |       |      |         |          |                            |                     | P-1 Line Item Number / Title: |     |     |     |     |     |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]: |                |     |     |     |     |     |     |     |         |
| 0300D / 01 / 17   |       |      |         |          |                            |                     | MD11 / BMDS Sensors           |     |     |     |     |     |     |     |     |     |     |     |                    |     |     | BMDS AN/TPY-2 Radars         |                |     |     |     |     |     |     |     |         |
| Cost Elements<br><i>(Units in Each)</i>                           |       |      |         |          |                            |                     | Fiscal Year 2012              |     |     |     |     |     |     |     |     |     |     |     | Fiscal Year 2013   |     |     |                              |                |     |     |     |     |     |     |     | BALANCE |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2011 | BAL DUE AS OF 1 OCT | Calendar Year 2012            |     |     |     |     |     |     |     |     |     |     |     | Calendar Year 2013 |     |     |                              |                |     |     |     |     |     |     |     |         |
|   |       |      |         |          |                            |                     | OCT                           | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN                          | FEB            | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |
| Contractor Certification  |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |                              |                |     |     |     |     |     |     |     |         |
|   | 18    | 2015 | MDA     | 1        | 0                          | 1                   |                               |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |                              |                |     |     |     |     |     | 1   |     |         |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon    |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |                              |                |     |     |     |     |     |     |     |         |
|   | 19    | 2020 | MDA     | 1        | 0                          | 1                   |                               |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |                              |                |     |     |     |     |     | 1   |     |         |
| Retrofit Firewall Kits - Raytheon                                 |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |                              |                |     |     |     |     |     |     |     |         |
|   | 20    | 2020 | MDA     | 37       | 0                          | 37                  |                               |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |                              |                |     |     |     |     |     | 37  |     |         |
|   |       |      |         |          |                            |                     | OCT                           | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN                          | FEB            | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |

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|---|------------------|------|---------|-------------|---|------------------------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|--|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|---|----|---|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |             |             |             |             |             |             |                    |             |             | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |      |         |             |   |                              | Fiscal Year 2014   |             |             |  |             |             |             |             |             |             | Fiscal Year 2015   |             |             |  |                |             |             |             |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |   |    |   |   |   |   |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>O<br>C<br>T<br>2<br>0<br>1<br>3 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2014 |             |             |  |             |             |             |             |             |             | Calendar Year 2015 |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   |                  |      |         |             |   |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C    | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                                 |   |    |   |   |   |   |
|   | 8                | 2010 | MDA     |             | 1   | 0                            |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   | 0 |   |
|   | 8                | 2012 | MDA     |             | 2   | 0                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | 2           |                    |             |             |  |                |             |             |             |             |             |             |             |             |             | 0                               |   |    |   |   |   |   |
| Electronic Equipment Unit (EEU) - 1                                       |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 8                | 2013 | MDA     |             | 1   | 0                            | 1                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -                  | -           | -           | -  | -              | -           | -           | -           | -           | -           | -           | -           | -           | 1           |                                 |   | 0  |   |   |   |   |
| Electronic Equipment Unit (EEU) - 2                                       |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 8                | 2013 | MDA     |             | 1   | 0                            | 1                  | A -         |             |  |             | -           | -           | -           | -           | -           | -                  | -           | -           | -  | -              | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | 1 |    |   |   |   |   |
| Electronic Equipment Unit (EEU) Modification Kit                          |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 9                | 2015 | MDA     |             | 3   | 0                            | 3                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                | A -         | -           | -           | -           | -           | -           | -           | 3           |             |                                 |   |    | 0 |   |   |   |
|   | 9                | 2016 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   | 1  |   |   |   |   |
|   | 9                | 2017 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   | 1  |   |   |   |   |
| Float Antenna Equipment Unit (AEU)  |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 10               | 2016 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   | 1  |   |   |   |   |
| Float Cooling Equipment Unit (CEU)  |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 11               | 2012 | MDA     |             | 1   | 0                            | 1                  | -           | -           | -  | -           | -           | -           | -           | -           | 1           |                    |             |             |  |                |             |             |             |             |             |             |             |             |             | 0                               |   |    |   |   |   |   |
|   | 11               | 2014 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    | A -         | -           | -  | -              | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | - | -  | - | 1 |   |   |
| Float Electronic Equipment Unit (EEU)                                     |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 12               | 2012 | MDA     |             | 1   | 0                            | 1                  | -           | -           | -  | -           | -           | -           | -           | -           | 1           |                    |             |             |  |                |             |             |             |             |             |             |             |             |             | 0                               |   |    |   |   |   |   |
|   | 12               | 2014 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    | A -         | -           | -  | -              | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | - | -  | - | 1 |   |   |
| Forward-Based Mode Prime Power Units (PPU)                                |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 13               | 2013 | MDA     |             | 4   | 0                            | 4                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -                  | -           | -           | -  | -              | 3           |             |             |             |             |             |             |             | 1           |                                 |   |    |   |   |   |   |
| Prime Power Unit (PPUs - 2 each radar system)                             |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 14               | 2010 | MDA     |             | 1   | 1                            | 0                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   | 0  |   |   |   |   |
|   | 14               | 2012 | MDA     |             | 2   | 0                            | 2                  | -           | -           | -  | -           | -           | -           | -           | -           | 2           |                    |             |             |  |                |             |             |             |             |             |             |             |             |             | 0                               |   |    |   |   |   |   |
| Prime Power Unit (PPUs - 2 each radar system) - 1                         |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 14               | 2013 | MDA     |             | 1   | 0                            | 1                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -                  | -           | -           | -  | -              | -           | -           | -           | -           | -           | -           | -           | 1           |             |                                 | 0 |    |   |   |   |   |
| Prime Power Unit (PPUs - 2 each radar system) - 2                         |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 14               | 2013 | MDA     |             | 1   | 0                            | 1                  | A -         |             |  |             | -           | -           | -           | -           | -           | -                  | -           | -           | -  | -              | -           | -           | -           | -           | -           | -           | -           | -           | -           | -                               | 1 |    |   |   |   |   |
| Transmit/Receive Integrated Microwave Module (TRIMMs)                     |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 15               | 2015 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                | A -         | -           | -           | -           | -           | -           | -           | -           | -           | -                               | - | -  | - | - | - | 1 |
| Antenna Equipment Unit (AEU) Radome - Raytheon                            |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 16               | 2020 | MDA     |             | 1   | 0                            | 1                  |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   | 1  |   |   |   |   |
| CEU Fan Motors - Raytheon   |                  |      |         |             |   |                              |                    |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   |    |   |   |   |   |
|   | 17               | 2020 | MDA     |             | 24  | 0                            | 24                 |             |             |  |             |             |             |             |             |             |                    |             |             |  |                |             |             |             |             |             |             |             |             |             |                                 |   | 24 |   |   |   |   |
|   |                  |      |         |             |   |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G        | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C    | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                                 |   |    |   |   |   |   |



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|---|-------|------|---------|----------|----------------------------|---------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|------------------------------|-----|-----|----------------|-----|-----|-----|-----|-----|---------|-----|-----|---|
| Appropriation / Budget Activity / Budget Sub Activity:            |       |      |         |          |                            |                     | P-1 Line Item Number / Title: |     |     |     |     |     |     |     |     |     |     |                    |     | Item Number / Title [DODIC]: |     |     |                |     |     |     |     |     |         |     |     |   |
| 0300D / 01 / 17   |       |      |         |          |                            |                     | MD11 / BMDS Sensors           |     |     |     |     |     |     |     |     |     |     |                    |     | BMDS AN/TPY-2 Radars         |     |     |                |     |     |     |     |     |         |     |     |   |
| Cost Elements<br><i>(Units in Each)</i>                           |       |      |         |          |                            |                     | Fiscal Year 2014              |     |     |     |     |     |     |     |     |     |     | Fiscal Year 2015   |     |                              |     |     |                |     |     |     |     |     | BALANCE |     |     |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2013 | BAL DUE AS OF 1 OCT | Calendar Year 2014            |     |     |     |     |     |     |     |     |     |     | Calendar Year 2015 |     |                              |     |     |                |     |     |     |     |     |         |     |     |   |
|   |       |      |         |          |                            |                     | OCT                           | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV                          | DEC | JAN | FEB            | MAR | APR | MAY | JUN | JUL |         | AUG | SEP |   |
| Contractor Certification  |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |     |                    |     |                              |     |     |                |     |     |     |     |     |         |     |     |   |
|   | 18    | 2015 | MDA     | 1        | 0                          | 1                   |                               |     |     |     |     |     |     |     |     |     |     | A -                | -   | -                            | -   | -   | -              | -   | -   | -   | -   | -   | -       | -   | -   | 1 |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon    |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |     |                    |     |                              |     |     |                |     |     |     |     |     |         |     |     |   |
|   | 19    | 2020 | MDA     | 1        | 0                          | 1                   |                               |     |     |     |     |     |     |     |     |     |     |                    |     |                              |     |     |                |     |     |     |     |     | 1       |     |     |   |
| Retrofit Firewall Kits - Raytheon                                 |       |      |         |          |                            |                     |                               |     |     |     |     |     |     |     |     |     |     |                    |     |                              |     |     |                |     |     |     |     |     |         |     |     |   |
|   | 20    | 2020 | MDA     | 37       | 0                          | 37                  |                               |     |     |     |     |     |     |     |     |     |     |                    |     |                              |     |     |                |     |     |     |     |     | 37      |     |     |   |
|   |       |      |         |          |                            |                     | OCT                           | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV                          | DEC | JAN | FEB            | MAR | APR | MAY | JUN | JUL | AUG     | SEP |     |   |

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|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|---------------------------------|---|---|---|--|--|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                    |             |             | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |             |             |             |             |             |             |             |                    |             |             | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |      |         |             |  |                              | Fiscal Year 2016   |             |             |  |             |             |             |             |             |             |             | Fiscal Year 2017   |             |             |  |             |             |             |             |             |             |             |             |             |    | B<br>A<br>L<br>A<br>N<br>C<br>E |   |   |   |  |  |   |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2015 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2016 |             |             |  |             |             |             |             |             |             |             | Calendar Year 2017 |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   |                  |      |         |             |  |                              | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P        | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C  | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |    |                                 |   |   |   |  |  |   |
|   | 8                | 2010 | MDA     | 1           | 1                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
|   | 8                | 2012 | MDA     | 2           | 2                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
| Electronic Equipment Unit (EEU) - 1                                       |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 8                | 2013 | MDA     | 1           | 1                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
| Electronic Equipment Unit (EEU) - 2                                       |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 8                | 2013 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | 1           |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   | 0 |   |  |  |   |
| Electronic Equipment Unit (EEU) Modification Kit                          |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 9                | 2015 | MDA     | 3           | 3                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
|   | 9                | 2016 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |             | A                  | -           | -           | -  | -           | -           | -           | 1           |             |             |             |             |             |    |                                 |   |   |   |  |  | 0 |
|   | 9                | 2017 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             | A           | -           | -           | -           | -           | -           | -           | 1  |                                 |   |   |   |  |  | 0 |
| Float Antenna Equipment Unit (AEU)  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 10               | 2016 | MDA     | 1           | 0                                      | 1                            |                    |             |             | A  | -           | -           | -           | -           | -           | -           | -           | -                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -  | -                               | 1 |   |   |  |  |   |
| Float Cooling Equipment Unit (CEU)  |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 11               | 2012 | MDA     | 1           | 1                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
|   | 11               | 2014 | MDA     | 1           | 0                                      | 1                            | -                  | -           | 1           |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   | 0 |   |  |  |   |
| Float Electronic Equipment Unit (EEU)                                     |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 12               | 2012 | MDA     | 1           | 1                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
|   | 12               | 2014 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | -           | -           | -                  | 1           |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   | 0 |   |  |  |   |
| Forward-Based Mode Prime Power Units (PPU)                                |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 13               | 2013 | MDA     | 4           | 3                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 1 |  |  |   |
| Prime Power Unit (PPUs - 2 each radar system)                             |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 14               | 2010 | MDA     | 1           | 1                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
|   | 14               | 2012 | MDA     | 2           | 2                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
| Prime Power Unit (PPUs - 2 each radar system) - 1                         |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 14               | 2013 | MDA     | 1           | 1                                      | 0                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 0 |  |  |   |
| Prime Power Unit (PPUs - 2 each radar system) - 2                         |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 14               | 2013 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | 1           |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   | 0 |   |  |  |   |
| Transmit/Receive Integrated Microwave Module (TRIMMs)                     |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 15               | 2015 | MDA     | 1           | 0                                      | 1                            | -                  | -           | -           | -  | -           | -           | -           | -           | -           | 1           |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   | 0 |   |  |  |   |
| Antenna Equipment Unit (AEU) Radome - Raytheon                            |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 16               | 2020 | MDA     | 1           | 0                                      | 1                            |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   | 1 |  |  |   |
| CEU Fan Motors - Raytheon   |                  |      |         |             |  |                              |                    |             |             |  |             |             |             |             |             |             |             |                    |             |             |  |             |             |             |             |             |             |             |             |             |    |                                 |   |   |   |  |  |   |
|   | 17               | 2020 | MDA     | 24          | 0                                      | 24                           | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P        | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C  | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | 24 |                                 |   |   |   |  |  |   |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     | Date: May 2021 |     |     |     |         |     |     |     |     |  |    |   |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|--|-----|-----|----------------|-----|-----|-----|---------|-----|-----|-----|-----|--|----|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |     |     |                |     |     |     |         |     |     |     |     |  |    |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2016   |     |     |  |     |     |     |     |     |     | Fiscal Year 2017   |     |     |  |     |     |                |     |     |     | BALANCE |     |     |     |     |  |    |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | Calendar Year 2016 |     |     |  |     |     |     |     |     |     | Calendar Year 2017 |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  |    |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB            | MAR | APR | MAY |         | JUN | JUL | AUG | SEP |  |    |   |
| Contractor Certification  |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  |    |   |
|   | 18    | 2015 | MDA     | 1        | 0                          | 1                   | -                  | -   | 1   |  |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  |    | 0 |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon            |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  |    |   |
|   | 19    | 2020 | MDA     | 1        | 0                          | 1                   |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  | 1  |   |
| Retrofit Firewall Kits - Raytheon   |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  |    |   |
|   | 20    | 2020 | MDA     | 37       | 0                          | 37                  |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     |                |     |     |     |         |     |     |     |     |  | 37 |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB            | MAR | APR | MAY | JUN     | JUL | AUG | SEP |     |  |    |   |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             | Date: May 2021                                       |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|---|------------------|------|---------|-------------|--|------------------------------|------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |  |                              | Fiscal Year 2018 |             |             |  |             |             |             |             |             |             | Fiscal Year 2019 |             |             |  |             |             |             |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |  |  |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2017 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2018                                   |             |             |             |             |             |             |                  |             |             | Calendar Year 2019                                   |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   |                  |      |         |             |  |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G |                                 | S<br>E<br>P |  |  |
|   | 8                | 2010 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
|   | 8                | 2012 | MDA     | 2           | 2                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Electronic Equipment Unit (EEU) - 1                                       |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 8                | 2013 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Electronic Equipment Unit (EEU) - 2                                       |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 8                | 2013 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Electronic Equipment Unit (EEU) Modification Kit                          |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 9                | 2015 | MDA     | 3           | 3                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
|   | 9                | 2016 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
|   | 9                | 2017 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Float Antenna Equipment Unit (AEU)  |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 10               | 2016 | MDA     | 1           | 0                                      | 1                            | -                | -           | -           | -  | -           | -           | -           | -           | -           | 1           |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Float Cooling Equipment Unit (CEU)  |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 11               | 2012 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
|   | 11               | 2014 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Float Electronic Equipment Unit (EEU)                                     |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 12               | 2012 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
|   | 12               | 2014 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Forward-Based Mode Prime Power Units (PPU)                                |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 13               | 2013 | MDA     | 4           | 3                                      | 1                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 1           |  |  |
| Prime Power Unit (PPUs - 2 each radar system)                             |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 14               | 2010 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
|   | 14               | 2012 | MDA     | 2           | 2                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Prime Power Unit (PPUs - 2 each radar system) - 1                         |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 14               | 2013 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Prime Power Unit (PPUs - 2 each radar system) - 2                         |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 14               | 2013 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Transmit/Receive Integrated Microwave Module (TRIMMs)                     |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 15               | 2015 | MDA     | 1           | 1                                      | 0                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 0           |  |  |
| Antenna Equipment Unit (AEU) Radome - Raytheon                            |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 16               | 2020 | MDA     | 1           | 0                                      | 1                            |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 1           |  |  |
| CEU Fan Motors - Raytheon   |                  |      |         |             |  |                              |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 |             |  |  |
|   | 17               | 2020 | MDA     | 24          | 0                                      | 24                           |                  |             |             |  |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |             |             |             |                                 | 24          |  |  |
|   |                  |      |         |             |  |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N  | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P                     |             |  |  |

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|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|-------------------------------|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|------------------------------|-----|-----|-----|----------------|-----|-----|---------|-----|-----|-----|-----|
| Appropriation / Budget Activity / Budget Sub Activity:            |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title: |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]: |     |     |     |                |     |     |         |     |     |     |     |
| 0300D / 01 / 17   |       |      |         |          |                            |                     |                    |     |     | MD11 / BMDS Sensors           |     |     |     |     |     |     |                    |     |     | BMDS AN/TPY-2 Radars         |     |     |     |                |     |     |         |     |     |     |     |
| Cost Elements<br><i>(Units in Each)</i>                           |       |      |         |          |                            |                     | Fiscal Year 2018   |     |     |                               |     |     |     |     |     |     | Fiscal Year 2019   |     |     |                              |     |     |     |                |     |     | BALANCE |     |     |     |     |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | Calendar Year 2018 |     |     |                               |     |     |     |     |     |     | Calendar Year 2019 |     |     |                              |     |     |     |                |     |     |         |     |     |     |     |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN                           | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                          | DEC | JAN | FEB | MAR            | APR | MAY |         | JUN | JUL | AUG | SEP |
| Contractor Certification  |       |      |         |          |                            |                     |                    |     |     |                               |     |     |     |     |     |     |                    |     |     |                              |     |     |     |                |     |     |         |     |     |     |     |
|   | 18    | 2015 | MDA     | 1        | 1                          | 0                   |                    |     |     |                               |     |     |     |     |     |     |                    |     |     |                              |     |     |     |                |     |     |         |     |     |     | 0   |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon    |       |      |         |          |                            |                     |                    |     |     |                               |     |     |     |     |     |     |                    |     |     |                              |     |     |     |                |     |     |         |     |     |     |     |
|   | 19    | 2020 | MDA     | 1        | 0                          | 1                   |                    |     |     |                               |     |     |     |     |     |     |                    |     |     |                              |     |     |     |                |     |     |         |     |     |     | 1   |
| Retrofit Firewall Kits - Raytheon                                 |       |      |         |          |                            |                     |                    |     |     |                               |     |     |     |     |     |     |                    |     |     |                              |     |     |     |                |     |     |         |     |     |     |     |
|   | 20    | 2020 | MDA     | 37       | 0                          | 37                  | OCT                | NOV | DEC | JAN                           | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV                          | DEC | JAN | FEB | MAR            | APR | MAY | JUN     | JUL | AUG | SEP | 37  |

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Page 24 of 30

P-1 Line #33

Volume 2b - 86



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Missile Defense Agency

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|---|-------|-----|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |     |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |     |     |     |                    |     |     |     |     |     |                  |     |     | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |     |     |     |     |     |     |     |  |  |         |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |     |         |          |                            |                     | Fiscal Year 2020   |     |     |  |     |     |     |                    |     |     |     |     |     | Fiscal Year 2021 |     |     |  |     |     |     |     |     |     |     |  |  | BALANCE |
| OCO   | MFR # | FY  | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | Calendar Year 2020 |     |     |  |     |     |     | Calendar Year 2021 |     |     |     |     |     |                  |     |     |  |     |     |     |     |     |     |     |  |  |         |
|   |       |     |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY                | JUN | JUL | AUG | SEP | OCT | NOV              | DEC | JAN | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |         |
| Contractor Certification  |       |     |         |          |                            |                     |                    |     |     |  |     |     |     |                    |     |     |     |     |     |                  |     |     |  |     |     |     |     |     |     | 0   |  |  |         |
| 18  | 2015  | MDA | 1       | 1        | 0                          |                     |                    |     |     |  |     |     |     |                    |     |     |     |     |     |                  |     |     |  |     |     |     |     |     |     | 0   |  |  |         |
| Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon            |       |     |         |          |                            |                     |                    |     |     |  |     |     |     |                    |     |     |     |     |     |                  |     |     |  |     |     |     |     |     |     |     |  |  |         |
| 19  | 2020  | MDA | 1       | 0        | 1                          |                     |                    |     |     |  |     |     | A   | -                  | -   | -   | -   | -   | -   | -                | 1   |     |  |     |     |     |     |     |     |     |  |  | 0       |
| Retrofit Firewall Kits - Raytheon   |       |     |         |          |                            |                     |                    |     |     |  |     |     |     |                    |     |     |     |     |     |                  |     |     |  |     |     |     |     |     |     |     |  |  |         |
| 20  | 2020  | MDA | 37      | 0        | 37                         |                     |                    |     |     |  |     |     | A   | -                  | -   | -   | -   | -   | -   | -                | 37  |     |  |     |     |     |     |     |     |     |  |  | 0       |
|   |       |     |         |          |                            | OCT                 | NOV                | DEC | JAN | FEB  | MAR | APR | MAY | JUN                | JUL | AUG | SEP | OCT | NOV | DEC              | JAN | FEB | MAR  | APR | MAY | JUN | JUL | AUG | SEP |     |  |  |         |

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Page 27 of 30

P-1 Line #33

Volume 2b - 89

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LI MD11 - BMDS Sensors  
Missile Defense Agency

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |     |         |             |  |                              |  |      |     |  |   |   |   |   |   |   |   |   |   |   |                    |   |   | Date: May 2021                                       |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|---|------------------|-----|---------|-------------|--|------------------------------|--|------|-----|--|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|--|---|---|---|---|---|---|--|--|--|--|---------------------------------|--|--|--|--|--|--|--|--|--|---|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |     |         |             |  |                              |  |      |     | P-1 Line Item Number / Title:<br>MD11 / BMDS Sensors |   |   |   |   |   |   |   |   |   |   |                    |   |   | Item Number / Title [DODIC]:<br>BMDS AN/TPY-2 Radars |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |     |         |             |  |                              | Fiscal Year 2022   |      |     |  |   |   |   |   |   |   |   |   |   |   | Fiscal Year 2023   |   |   |  |   |   |   |   |   |   |  |  |  |  | B<br>A<br>L<br>A<br>N<br>C<br>E |  |  |  |  |  |  |  |  |  |   |  |
| O<br>C<br>O   | M<br>F<br>R<br># | FY  | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2021 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2022   |      |     |  |   |   |   |   |   |   |   |   |   |   | Calendar Year 2023 |   |   |  |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|   |                  |     |         |             |  |                              | 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 | P | A | U | U | U | E | C | O | E                  | A | E | A  | P | A | U | U | U | E |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|   |                  |     |         |             |  |                              | T  | V    | C   | N  | B | R | R | Y | N | L | G | P | T | V | C                  | N | B | R  | R | Y | N | L | G | P |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|   |                  |     |         |             |  |                              | Contractor Certification                                       |      |     |  |   |   |   |   |   |   |   |   |   |   |                    |   |   |  |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|   |                  |     |         |             |  |                              | 18   | 2015 | MDA | 1  | 1 | 0 |   |   |   |   |   |   |   |   |                    |   |   |  |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  | 0 |  |
|   |                  |     |         |             |  |                              | Reference Horn Switch Assembly (RHSA) Retrofit Kits - Raytheon |      |     |  |   |   |   |   |   |   |   |   |   |   |                    |   |   |  |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|   |                  |     |         |             |  |                              | 19   | 2020 | MDA | 1  | 1 | 0 |   |   |   |   |   |   |   |   |                    |   |   |  |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  | 0 |  |
| Retrofit Firewall Kits - Raytheon   |                  |     |         |             |  |                              |  |      |     |  |   |   |   |   |   |   |   |   |   |   |                    |   |   |  |   |   |   |   |   |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
| 20  | 2020             | MDA | 37      | 37          | 0                                      | 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 | P | A | U | U | U | E | C | O | E | A                  | E | A | P  | A | U | U | U | E |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |
|   |                  |     |         |             |  | T                            | V  | C    | N   | B  | R | R | Y | N | L | G | P | T | V | C | N                  | B | R | R  | Y | N | L | G | P |   |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |   |  |

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| <b>Exhibit P-21, Production Schedule:</b> PB 2022 Missile Defense Agency         |  |   | <b>Date:</b> May 2021                                       |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17 |  | <b>P-1 Line Item Number / Title:</b><br>MD11 / BMDS Sensors | <b>Item Number / Title [DODIC]:</b><br>BMDS AN/TPY-2 Radars |

| MFR<br>Ref<br># | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months) |                    |                      |                      |                       |                    |                      |                      |
|-----------------|---------------------------------|---------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
|                 |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial                       |                    |                      |                      | Reorder               |                    |                      |                      |
|                 |                                 |                                 |                |              | ALT<br>Prior to Oct 1         | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1 | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 |
| 1               | Raytheon - Woburn, MA           | 1                               | 1              | 2            | 2                             | 3                  | 6                    | 9                    | 2                     | 3                  | 6                    | 9                    |
| 2               | Raytheon - Woburn, MA           |                                 | 2              | 2            | 9                             | 0                  | 6                    | 6                    | 0                     | 0                  | 0                    | 0                    |
| 3               | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 3                  | 30                   | 33                   | 0                     | 0                  | 0                    | 0                    |
| 4               | Raytheon - Woburn, MA           | 1                               | 4              | 4            | 2                             | 3                  | 9                    | 12                   | 2                     | 3                  | 9                    | 12                   |
| 5               | Raytheon - Washington, D.C.     | 1                               | 1              | 1            | 3                             | 2                  | 12                   | 14                   | 3                     | 2                  | 12                   | 14                   |
| 6               | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 30                   | 32                   | 0                     | 0                  | 0                    | 0                    |
| 7               | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 12                   | 14                   | 4                     | 2                  | 12                   | 14                   |
| 8               | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 30                   | 32                   | 0                     | 0                  | 0                    | 0                    |
| 9               | Raytheon - Woburn, MA           | 1                               | 2              | 4            | 2                             | 3                  | 6                    | 9                    | 2                     | 3                  | 6                    | 9                    |
| 10              | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 30                   | 32                   | 0                     | 0                  | 0                    | 0                    |
| 11              | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 15                   | 17                   | 0                     | 0                  | 0                    | 0                    |
| 12              | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 24                   | 26                   | 0                     | 0                  | 0                    | 0                    |
| 13              | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 24                   | 26                   | 0                     | 0                  | 0                    | 0                    |
| 14              | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 30                   | 32                   | 0                     | 0                  | 0                    | 0                    |
| 15              | Raytheon - Woburn, MA           | 1                               | 1              | 4            | 4                             | 2                  | 18                   | 20                   | 4                     | 2                  | 18                   | 20                   |
| 16              | Raytheon - Huntsville           | 1                               | 1              | 1            | 2                             | 3                  | 6                    | 9                    | 2                     | 3                  | 6                    | 9                    |
| 17              | Raytheon - Huntsville           | 1                               | 1              | 24           | 2                             | 3                  | 6                    | 9                    | 2                     | 3                  | 6                    | 9                    |
| 18              | Raytheon - Woburn, MA           | 1                               | 1              | 1            | 3                             | 2                  | 12                   | 14                   | 3                     | 2                  | 12                   | 14                   |
| 19              | Raytheon - Huntsville           | 1                               | 1              | 37           | 2                             | 3                  | 6                    | 9                    | 2                     | 3                  | 6                    | 9                    |
| 20              | Raytheon - Huntsville           | 1                               | 1              | 37           | 2                             | 3                  | 3                    | 6                    | 2                     | 3                  | 3                    | 6                    |

"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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|---|-------------|---------|---|--------------|-------------|---------------|--|---------|----------------|---------|-------------|------------|
| Exhibit P-40, Budget Line Item Justification: PB 2022 Missile Defense Agency  |             |         |   |              |             |               |  |         | Date: May 2021 |         |             |            |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency   |             |         |   |              |             |               | P-1 Line Item Number / Title:<br>MD14 / SM-3 Block IIA |         |                |         |             |            |
| ID Code (A=Service Ready, B=Not Service Ready): A   |             |         | Program Elements for Code B Items: 0604881C, 0603892C |              |             |               | Other Related Program Elements: 0604878C, 0603892C     |         |                |         |             |            |
| Line Item MDAP/MAIS Code: 362   |             |         |   |              |             |               |  |         |                |         |             |            |
| Resource Summary  | Prior Years | FY 2020 | FY 2021   | FY 2022 Base | FY 2022 OCO | FY 2022 Total | FY 2023  | FY 2024 | FY 2025        | FY 2026 | To Complete | Total      |
| Procurement Quantity (Units in Each)  | 0           | 7       | 9   | 8            | -           | 8             | -  | -       | -              | -       | Continuing  | Continuing |
| Gross/Weapon System Cost (\$ in Millions)   | 0.000       | 238.000 | 318.322   | 295.322      | -           | 295.322       | -  | -       | -              | -       | Continuing  | Continuing |
| Less PY Advance Procurement (\$ in Millions)  | 0.000       | 0.000   | 0.000   | -            | -           | -             | -  | -       | -              | -       | -           | -          |
| Net Procurement (P-1) (\$ in Millions)  | 0.000       | 238.000 | 318.322   | 295.322      | -           | 295.322       | -  | -       | -              | -       | Continuing  | Continuing |
| Plus CY Advance Procurement (\$ in Millions)  | 0.000       | 0.000   | 0.000   | -            | -           | -             | -  | -       | -              | -       | -           | -          |
| Total Obligation Authority (\$ in Millions)   | 0.000       | 238.000 | 318.322   | 295.322      | -           | 295.322       | -  | -       | -              | -       | Continuing  | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)  |             |         |   |              |             |               |  |         |                |         |             |            |
| Initial Spares (\$ in Millions)   | 0.000       | -       | -   | -            | -           | -             | -  | -       | -              | -       | -           | -          |
| Flyaway Unit Cost (\$ in Millions)  | 0.000       | -       | -   | -            | -           | -             | -  | -       | -              | -       | -           | -          |
| Gross/Weapon System Unit Cost (\$ in Millions)  | 0.000       | 34.000  | 35.369  | 36.915       | -           | 36.915        | -  | -       | -              | -       | Continuing  | Continuing |
| Description:  |             |         |   |              |             |               |  |         |                |         |             |            |
| In accordance with the Consolidated Appropriations Act 2020, SM-3 Block IIA was transferred to MD14 from MD09 in FY 2020 and beyond. FY 2018 and FY 2019 costs are contained in MD09.   |             |         |   |              |             |               |  |         |                |         |             |            |
| FY 2021 All Up Rounds (AUR) increased from 6 to 9 AURs due to PB21 Congressional Plus up of \$100M.   |             |         |   |              |             |               |  |         |                |         |             |            |
| Net Procurement and Gross Weapon System costs includes all hardware and support costs including canisters, production engineering, obsolescence and system engineering, which are detailed in separate P-5s.  |             |         |   |              |             |               |  |         |                |         |             |            |
| The Sea-Based Weapon Systems mission is to deliver an operationally effective and supportable Ballistic Missile Defense (BMD) capability to defend the nation, deployed forces, and allies. Sea-Based Weapon Systems mission aims to increase this capability by delivering evolutionary improvements as part of Missile Defense System upgrades. Sea-Based Weapon Systems mission provides a forward-deployable, mobile capability to detect and track ballistic missiles of all ranges, and the ability to destroy Short-Range Ballistic Missiles, Medium-Range Ballistic Missiles, and Intermediate-Range Ballistic Missiles (IRBM) in the midcourse phase of flight. Upgrades to both the Aegis Weapon System and the SM-3 configuration provides effective and supportable defensive capability against longer range and more sophisticated threats and an enduring Aegis Ashore defensive capability.   |             |         |   |              |             |               |  |         |                |         |             |            |
| The SM-3 Block IB improves Sea-Based Weapon Systems mission ability to expand the BMD battlespace, engage longer range, more sophisticated ballistic missiles that may deploy countermeasures, and launch in larger raid sizes. The SM-3 Block IB Kinetic Warhead's (KW) two color infrared seeker and advanced signal processor provides a real-time discrimination and characterization capability while improving sensitivity for longer range targets and performance against more sophisticated threats. Additionally, the new Throttleable Divert and Attitude Control System KW divert engine has been upgraded over the SM-3 Block IA to provide a more flexible divert in order to maneuver the KW to intercept.   |             |         |   |              |             |               |  |         |                |         |             |            |
| The SM-3 Block IIA provides greater capability over SM-3 Block IB, including increased velocity and range provided by a 21-inch diameter rocket motor propulsion stack, more than doubled seeker sensitivity, and more than tripled divert capability incorporated in an advanced KW. New component technologies include, but are not limited to: lightweight nosecone, advanced KW, 21-inch second stage rocket motor, and 21-inch third stage rocket motor. Working in concert with the SM-3 Block IB, the SM-3 Block IIA, will increase the Ballistic Missile Defense System defended area and increase the probability of kill against a larger threat set. The SM-3 Block IIA is also a critical part of the Aegis Ashore Missile Defense System Complex - Romania and Poland, and is also vital to defense efforts for Aegis afloat in the European and Indo-Pacific Commands. This will provide a more robust protection of Europe and the Indo-Pacific. The SM-3 Block IIA also provides defense against IRBMs and other threats. |             |         |   |              |             |               |  |         |                |         |             |            |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                                       |             |       |  |  |   |   | <b>Date:</b> May 2021                    |  |  |
|---|---------------------------------------|-------------|-------|--|--|---|---|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency        |                                       |             |       |  |  | <b>P-1 Line Item Number / Title:</b><br>MD14 / SM-3 Block IIA |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                                       |             |       | <b>Program Elements for Code B Items:</b> 0604881C, 0603892C |  |   | <b>Other Related Program Elements:</b> 0604878C, 0603892C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                                       |             |       |  |  |   |   |  |  |  |
| Exhibits Schedule   |                                       |             |       |  | Prior Years                              | FY 2020   | FY 2021   | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type  | Title*                                | Subexhibits | ID CD | MDAP/MAIS Code   | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                      | Quantity / Total Cost<br>(Each) / (\$ M)                  | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5   | Seabased BMD SM-3 Blk IIA             |             | A     |  | 0 / 0.000                                | 7 / 238.000   | 9 / 318.322   | 8 / 295.322                              | - / -                                    | 8 / 295.322                              |
| <b>P-40</b>   | <b>Total Gross/Weapon System Cost</b> |             |       |  | <b>0 / 0.000</b>                         | <b>7 / 238.000</b>  | <b>9 / 318.322</b>  | <b>8 / 295.322</b>                       | <b>- / -</b>                             | <b>8 / 295.322</b>                       |
| <small>*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.</small> |                                       |             |       |  |  |   |   |  |  |  |
| <small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>   |                                       |             |       |  |  |   |   |  |  |  |

**Justification:**  
N/A



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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      | Date: May 2021  |               |                      |                     |               |                      |               |  |  |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|---------------------|---------------|----------------------|---------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                     |               |                      |                     |               |                      | P-1 Line Item Number / Title:<br>MD14 / SM-3 Block IIA |               |                      |                     |               |                      | Item Number / Title [DODIC]:<br>Seabased BMD SM-3 Blk IIA |               |                      |                     |               |                      |               |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |                      |  |               |                      | MDAP/MAIS Code:     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Resource Summary   |                     |               |                      | Prior Years         |               |                      | FY 2020  |               |                      | FY 2021             |               |                      | FY 2022 Base  |               |                      | FY 2022 OCO         |               |                      | FY 2022 Total |  |  |
| Procurement Quantity <i>(Units in Each)</i>  |                     |               |                      | 0                   |               |                      | 7  |               |                      | 9                   |               |                      | 8   |               |                      | -                   |               |                      | 8             |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>   |                     |               |                      | 0.000               |               |                      | 238.000  |               |                      | 318.322             |               |                      | 295.322   |               |                      | -                   |               |                      | 295.322       |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |                      | 0.000  |               |                      | 0.000               |               |                      | -   |               |                      | -                   |               |                      | -             |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |                      | 238.000  |               |                      | 318.322             |               |                      | 295.322   |               |                      | -                   |               |                      | 295.322       |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |                      | 0.000  |               |                      | 0.000               |               |                      | -   |               |                      | -                   |               |                      | -             |  |  |
| Total Obligation Authority <i>(\$ in Millions)</i>   |                     |               |                      | 0.000               |               |                      | 238.000  |               |                      | 318.322             |               |                      | 295.322   |               |                      | -                   |               |                      | 295.322       |  |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Initial Spares <i>(\$ in Millions)</i>   |                     |               |                      | -                   |               |                      | -  |               |                      | -                   |               |                      | -   |               |                      | -                   |               |                      | -             |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |                      | 34.000   |               |                      | 35.369              |               |                      | 36.915  |               |                      | -                   |               |                      | 36.915        |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Cost Elements  | Prior Years         |               |                      | FY 2020             |               |                      | FY 2021  |               |                      | FY 2022 Base        |               |                      | FY 2022 OCO   |               |                      | FY 2022 Total       |               |                      |               |  |  |
|  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)                                    | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)                                       | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |               |  |  |
| Flyaway Cost   |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Recurring Cost   |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| SBMD SM-3 Block IIA  | -                   | -             | -                    | 27.348              | 7             | 191.436              | 28.407   | 9             | 255.665              | 33.254              | 8             | 266.032              | -   | -             | -                    | 33.254              | 8             | 266.032              |               |  |  |
| Subtotal: Recurring Cost   | -                   | -             | -                    | -                   | -             | 191.436              | -  | -             | 255.665              | -                   | -             | 266.032              | -   | -             | -                    | -                   | -             | 266.032              |               |  |  |
| Subtotal: Flyaway Cost   | -                   | -             | -                    | -                   | -             | 191.436              | -  | -             | 255.665              | -                   | -             | 266.032              | -   | -             | -                    | -                   | -             | 266.032              |               |  |  |
| Hardware Cost  |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Recurring Cost   |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| Canisters<br>Procurement SM-3<br>Block IIA (1)   | -                   | -             | -                    | 1.054               | 8             | 8.433                | 0.949  | 10            | 9.486                | 0.894               | 9             | 8.047                | -   | -             | -                    | 0.894               | 9             | 8.047                |               |  |  |
| Subtotal: Recurring Cost   | -                   | -             | -                    | -                   | -             | 8.433                | -  | -             | 9.486                | -                   | -             | 8.047                | -   | -             | -                    | -                   | -             | 8.047                |               |  |  |
| Subtotal: Hardware Cost  | -                   | -             | -                    | -                   | -             | 8.433                | -  | -             | 9.486                | -                   | -             | 8.047                | -   | -             | -                    | -                   | -             | 8.047                |               |  |  |
| Support Cost   |                     |               |                      |                     |               |                      |  |               |                      |                     |               |                      |   |               |                      |                     |               |                      |               |  |  |
| SM-3 BLK IIA Investment<br>Spares (2)  | -                   | -             | -                    | 9.630               | 1             | 9.630                | 14.003   | 1             | 14.003               | 4.194               | 1             | 4.194                | -   | -             | -                    | 4.194               | 1             | 4.194                |               |  |  |
| SM-3 BLK IIA Service<br>Life Evaluation Programs<br>(3)  | -                   | -             | -                    | 20.645              | 1             | 20.645               | 27.492   | 1             | 27.492               | 8.152               | 1             | 8.152                | -   | -             | -                    | 8.152               | 1             | 8.152                |               |  |  |
| SM-3 Block IIA<br>Obsolescence (4)   | -                   | -             | -                    | 4.860               | 1             | 4.860                | 5.001  | 1             | 5.001                | 7.331               | 1             | 7.331                | -   | -             | -                    | 7.331               | 1             | 7.331                |               |  |  |
| SM-3 Block IIA<br>Production Engineering<br>(5)  | -                   | -             | -                    | 2.996               | 1             | 2.996                | 6.675  | 1             | 6.675                | 1.566               | 1             | 1.566                | -   | -             | -                    | 1.566               | 1             | 1.566                |               |  |  |
| Subtotal: Support Cost   | -                   | -             | -                    | -                   | -             | 38.131               | -  | -             | 53.171               | -                   | -             | 21.243               | -   | -             | -                    | -                   | -             | 21.243               |               |  |  |

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| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |   |                     |               |                      |                        |               |  |                     | <b>Date:</b> May 2021 |                      |                     |               |                      |
|---|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|------------------------|---------------|--|---------------------|-----------------------|----------------------|---------------------|---------------|----------------------|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |                     |               |                      |                     |               | <b>P-1 Line Item Number / Title:</b><br>MD14 / SM-3 Block IIA |                     |               |                      |                        |               | <b>Item Number / Title [DODIC]:</b><br>Seabased BMD SM-3 Blk IIA |                     |                       |                      |                     |               |                      |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |   |                     |               |                      | <b>MDAP/MAIS Code:</b> |               |  |                     |                       |                      |                     |               |                      |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |                     |               |                      |                     |               |   |                     |               |                      |                        |               |  |                     |                       |                      |                     |               |                      |
| Cost Elements   | Prior Years         |               |                      | FY 2020             |               |   | FY 2021             |               |                      | FY 2022 Base           |               |  | FY 2022 OCO         |                       |                      | FY 2022 Total       |               |                      |
|   | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)    | Qty<br>(Each) | Total Cost<br>(\$ M)   | Unit Cost<br>(\$ M) | Qty<br>(Each)         | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |
| Gross/Weapon System Cost  | 0.000               | 0             | 0.000                | 34.000              | 7             | 238.000   | 35.369              | 9             | 318.322              | 36.915                 | 8             | 295.322  | -                   | -                     | -                    | 36.915              | 8             | 295.322              |
| <b>Remarks:</b><br>(1) Canisters are required for each SM-3 procured. Historical trends have identified 1 canister per year breaking during delivery, thus the request for a spare canister.<br><br>(2) SM-3 Block IIA Investment Spares are procured to coincide with the delivery of the missile and are required to support AURs during 6-year maintenance period.<br><br>(3) SM-3 Block IIA Service Life Evaluation Program Testing and analysis program to demonstrate the safety and suitability of the SM-3 for an extended service life.<br><br>(4) Obsolescence is the program's most effective and efficient way to minimize materiel readiness risks, realize future savings during production and sustainment, and improve overall life-cycle management. Identifies risk associated with the 800 vendors/suppliers discontinuing production of a component or raw material and then properly mitigating impacts to production. If not identified early, such activities will impact production and Fleet deliveries.<br><br>(5) Production Engineering provides engineering efforts support of SM-3 Guided Missile Round (GMR) production activities, manage and resolve issues that arise during manufacturing, assembly, tests, and missile integration. This effort addresses production technical issues that arise within the entire SM-3 vendor/supplier base. Includes improvement and efficiency activities such as configuration management and control boards, engineering assessments of manufacturing process improvement changes, engineering assessments of sub-vendor production issues, and engineering and quality review of documentation and test data prior to missile acceptance by the government. Additionally, includes Special Tooling and Test Equipment, which sustains and maintains the tools and test equipment vital to manufacture and test prior to government acceptance of new SM-3 missiles. |                     |               |                      |                     |               |   |                     |               |                      |                        |               |  |                     |                       |                      |                     |               |                      |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency | <b>Date:</b> May 2021 |
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|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency | <b>P-1 Line Item Number / Title:</b><br>MD26 / Arrow 3 Upper Tier System |
|--|--|

|  |   |   |
|--|---|---|
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A | <b>Program Elements for Code B Items:</b> N/A | <b>Other Related Program Elements:</b> 0603913C |
|--|---|---|

**Line Item MDAP/MAIS Code:** 362

| Resource Summary   | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total      |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|------------|
| Procurement Quantity ( <i>Units in Each</i> )  | 4           | 1       | 1       | 1            | -           | 1             | -       | -       | -       | -       | Continuing  | Continuing |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )   | 335.000     | 55.000  | 77.000  | 62.000       | -           | 62.000        | -       | -       | -       | -       | Continuing  | Continuing |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )  | 0.000       | 0.000   | 0.000   | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )  | 335.000     | 55.000  | 77.000  | 62.000       | -           | 62.000        | -       | -       | -       | -       | Continuing  | Continuing |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )  | 0.000       | 0.000   | 0.000   | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Total Obligation Authority ( <i>\$ in Millions</i> )   | 335.000     | 55.000  | 77.000  | 62.000       | -           | 62.000        | -       | -       | -       | -       | Continuing  | Continuing |
| (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> )  | 0.000       | -       | -       | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )  | 83.750      | 55.000  | 77.000  | 62.000       | -           | 62.000        | -       | -       | -       | -       | Continuing  | Continuing |

**Description:**

For procurement of Arrow Weapon System (AWS) components. Quantities are classified. The unit quantity of one is used as a proxy in each fiscal year with funding.  
Funding profile mirrors the Program Funding Baseline that has been coordinated with Israeli Missile Defense Organization based on the Strategic Plan of the MOU between Israel and the U.S.

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency  |                                       |             |       |   |  |  |   | <b>Date:</b> May 2021                    |  |  |
|--|---------------------------------------|-------------|-------|---|--|--|---|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency |                                       |             |       |   |  | <b>P-1 Line Item Number / Title:</b><br>MD26 / Arrow 3 Upper Tier System |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A   |                                       |             |       | <b>Program Elements for Code B Items:</b> N/A |  |  | <b>Other Related Program Elements:</b> 0603913C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362   |                                       |             |       |   |  |  |   |  |  |  |
| Exhibits Schedule  |                                       |             |       |   | Prior Years                              | FY 2020  | FY 2021   | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type   | Title*                                | Subexhibits | ID CD | MDAP/MAIS Code                                | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                                 | Quantity / Total Cost<br>(Each) / (\$ M)        | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5  | Israeli Program Procurement           |             | A     |   | 4 / 335.000                              | 1 / 55.000   | 1 / 77.000                                      | 1 / 62.000                               | - / -                                    | 1 / 62.000                               |
| <b>P-40</b>  | <b>Total Gross/Weapon System Cost</b> |             |       |   | <b>4 / 335.000</b>                       | <b>1 / 55.000</b>  | <b>1 / 77.000</b>                               | <b>1 / 62.000</b>                        | <b>- / -</b>                             | <b>1 / 62.000</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:**  
For procurement of additional AWS components.

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|--|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|--|-----------------------------|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|-----------------------------------|--|------------------------------------|-----------------------------------|-----------------------------|------------------------------------|
| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   | <b>Date:</b> May 2021  |                                    |                                   |                             |                                    |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17   |                                   |                             |                                    |                                   |                             |                                    | <b>P-1 Line Item Number / Title:</b><br>MD26 / Arrow 3 Upper Tier System |                             |                                    |                                   |                             |                                    |                                   | <b>Item Number / Title [DODIC]:</b><br>Israeli Program Procurement |                                    |                                   |                             |                                    |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    | <b>MDAP/MAIS Code:</b>            |                             |                                    |                                   |  |                                    |                                   |                             |                                    |
| <b>Resource Summary</b>  |                                   |                             |                                    | <b>Prior Years</b>                |                             | <b>FY 2020</b>                     |  | <b>FY 2021</b>              |                                    | <b>FY 2022 Base</b>               |                             | <b>FY 2022 OCO</b>                 |                                   | <b>FY 2022 Total</b>   |                                    |                                   |                             |                                    |
| Procurement Quantity <i>(Units in Each)</i>  |                                   |                             |                                    | 4                                 |                             | 1                                  |  | 1                           |                                    | 1                                 |                             | -                                  |                                   | 1  |                                    |                                   |                             |                                    |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>   |                                   |                             |                                    | 335.000                           |                             | 55.000                             |  | 77.000                      |                                    | 62.000                            |                             | -                                  |                                   | 62.000   |                                    |                                   |                             |                                    |
| Less PY Advance Procurement <i>(\$ in Millions)</i>  |                                   |                             |                                    | 0.000                             |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -  |                                    |                                   |                             |                                    |
| Net Procurement (P-1) <i>(\$ in Millions)</i>  |                                   |                             |                                    | 335.000                           |                             | 55.000                             |  | 77.000                      |                                    | 62.000                            |                             | -                                  |                                   | 62.000   |                                    |                                   |                             |                                    |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>  |                                   |                             |                                    | 0.000                             |                             | 0.000                              |  | 0.000                       |                                    | -                                 |                             | -                                  |                                   | -  |                                    |                                   |                             |                                    |
| <b>Total Obligation Authority</b> <i>(\$ in Millions)</i>  |                                   |                             |                                    | <b>335.000</b>                    |                             | <b>55.000</b>                      |  | <b>77.000</b>               |                                    | <b>62.000</b>                     |                             | <b>-</b>                           |                                   | <b>62.000</b>  |                                    |                                   |                             |                                    |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>                  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |  |                                    |                                   |                             |                                    |
| Initial Spares <i>(\$ in Millions)</i>   |                                   |                             |                                    | -                                 |                             | -                                  |  | -                           |                                    | -                                 |                             | -                                  |                                   | -  |                                    |                                   |                             |                                    |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>  |                                   |                             |                                    | 83.750                            |                             | 55.000                             |  | 77.000                      |                                    | 62.000                            |                             | -                                  |                                   | 62.000   |                                    |                                   |                             |                                    |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |  |                                    |                                   |                             |                                    |
| <b>Cost Elements</b>   | <b>Prior Years</b>                |                             |                                    | <b>FY 2020</b>                    |                             |                                    | <b>FY 2021</b>   |                             |                                    | <b>FY 2022 Base</b>               |                             |                                    | <b>FY 2022 OCO</b>                |  |                                    | <b>FY 2022 Total</b>              |                             |                                    |
|  | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i>  | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i>  | <b>Total Cost</b><br><i>(\$ M)</i> | <b>Unit Cost</b><br><i>(\$ M)</i> | <b>Qty</b><br><i>(Each)</i> | <b>Total Cost</b><br><i>(\$ M)</i> |
| Hardware Cost  |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |  |                                    |                                   |                             |                                    |
| Recurring Cost   |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |  |                                    |                                   |                             |                                    |
| Israeli Programs   | 83.750                            | 4                           | 335.000                            | 55.000                            | 1                           | 55.000                             | 77.000   | 1                           | 77.000                             | 62.000                            | 1                           | 62.000                             | -                                 | -  | -                                  | 62.000                            | 1                           | 62.000                             |
| <i>Subtotal: Recurring Cost</i>  | -                                 | -                           | 335.000                            | -                                 | -                           | 55.000                             | -  | -                           | 77.000                             | -                                 | -                           | 62.000                             | -                                 | -  | -                                  | -                                 | -                           | 62.000                             |
| <i>Subtotal: Hardware Cost</i>   | -                                 | -                           | 335.000                            | -                                 | -                           | 55.000                             | -  | -                           | 77.000                             | -                                 | -                           | 62.000                             | -                                 | -  | -                                  | -                                 | -                           | 62.000                             |
| <b>Gross/Weapon System Cost</b>  | <b>83.750</b>                     | <b>4</b>                    | <b>335.000</b>                     | <b>55.000</b>                     | <b>1</b>                    | <b>55.000</b>                      | <b>77.000</b>  | <b>1</b>                    | <b>77.000</b>                      | <b>62.000</b>                     | <b>1</b>                    | <b>62.000</b>                      | <b>-</b>                          | <b>-</b>   | <b>-</b>                           | <b>62.000</b>                     | <b>1</b>                    | <b>62.000</b>                      |
| <b>Remarks:</b><br>For procurement of AWS components. Quantities are classified. The unit quantity of one is used as a proxy in each fiscal year with funding. |                                   |                             |                                    |                                   |                             |                                    |  |                             |                                    |                                   |                             |                                    |                                   |  |                                    |                                   |                             |                                    |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                    |                |   |                     |                    |                      |  |   |                | <b>Date:</b> May 2021 |                    |              |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency  |                    |                |   |                     |                    |                      | <b>P-1 Line Item Number / Title:</b><br>MD34 / Short Range Ballistic Missile Defense (SRBMD)(David's Sling Weapon System (DSWS)) |   |                |                       |                    |              |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                    |                | <b>Program Elements for Code B Items:</b> N/A |                     |                    |                      |  | <b>Other Related Program Elements:</b> 0603913C |                |                       |                    |              |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                    |                |   |                     |                    |                      |  |   |                |                       |                    |              |
| <b>Resource Summary</b>   | <b>Prior Years</b> | <b>FY 2020</b> | <b>FY 2021</b>                                | <b>FY 2022 Base</b> | <b>FY 2022 OCO</b> | <b>FY 2022 Total</b> | <b>FY 2023</b>   | <b>FY 2024</b>                                  | <b>FY 2025</b> | <b>FY 2026</b>        | <b>To Complete</b> | <b>Total</b> |
| Procurement Quantity ( <i>Units in Each</i> )   | 4                  | 1              | 1   | 1                   | -                  | 1                    | -  | -   | -              | -                     | Continuing         | Continuing   |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )  | 470.000            | 50.000         | 50.000  | 30.000              | -                  | 30.000               | -  | -   | -              | -                     | Continuing         | Continuing   |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 0.000   | -                   | -                  | -                    | -  | -   | -              | -                     | -                  | -            |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )   | 470.000            | 50.000         | 50.000  | 30.000              | -                  | 30.000               | -  | -   | -              | -                     | Continuing         | Continuing   |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 0.000   | -                   | -                  | -                    | -  | -   | -              | -                     | -                  | -            |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )   | <b>470.000</b>     | <b>50.000</b>  | <b>50.000</b>                                 | <b>30.000</b>       | -                  | <b>30.000</b>        | -  | -   | -              | -                     | Continuing         | Continuing   |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>   |                    |                |   |                     |                    |                      |  |   |                |                       |                    |              |
| Initial Spares ( <i>\$ in Millions</i> )  | 0.000              | -              | -   | -                   | -                  | -                    | -  | -   | -              | -                     | -                  | -            |
| Flyaway Unit Cost ( <i>\$ in Millions</i> )   | 0.000              | -              | -   | -                   | -                  | -                    | -  | -   | -              | -                     | -                  | -            |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )   | 117.500            | 50.000         | 50.000  | 30.000              | -                  | 30.000               | -  | -   | -              | -                     | Continuing         | Continuing   |
| <p><b>Description:</b><br/>           Previously named David's Sling. FY 2018 name change to Short Range Ballistic Missile Defense (SRBMD).<br/><br/>           Provides funding to the Government of Israel to procure DSWS/SRBMD components. Quantities are classified. The unit quantity of one is used as a proxy in each fiscal year with funding.<br/><br/>           Funding profile mirrors the Program Funding Baseline that has been coordinated with Israeli Missile Defense Organization based on the Strategic Plan of the MOU between Israel and the U.S.</p> |                    |                |   |                     |                    |                      |  |   |                |                       |                    |              |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                                       |             |   |                |  |  |  | <b>Date:</b> May 2021                    |  |  |
|---|---------------------------------------|-------------|---|----------------|--|--|--|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency        |                                       |             |   |                |  | <b>P-1 Line Item Number / Title:</b><br>MD34 / Short Range Ballistic Missile Defense (SRBMD)(David's Sling Weapon System (DSWS)) |  |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                                       |             | <b>Program Elements for Code B Items:</b> N/A |                |  | <b>Other Related Program Elements:</b> 0603913C  |  |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                                       |             |   |                |  |  |  |  |  |  |
| Exhibits Schedule   |                                       |             |   |                | Prior Years                              | FY 2020  | FY 2021                                  | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type  | Title*                                | Subexhibits | ID CD   | MDAP/MAIS Code | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)   | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5   | 1 / David's Sling Weapon System [1]   |             | A   |                | 4 / 470.000                              | 1 / 50.000   | 1 / 50.000                               | 1 / 30.000                               | - / -                                    | 1 / 30.000                               |
| <b>P-40</b>   | <b>Total Gross/Weapon System Cost</b> |             |   |                | <b>4 / 470.000</b>                       | <b>1 / 50.000</b>  | <b>1 / 50.000</b>                        | <b>1 / 30.000</b>                        | <b>- / -</b>                             | <b>1 / 30.000</b>                        |
| <small>*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.</small> |                                       |             |   |                |  |  |  |  |  |  |
| <small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>   |                                       |             |   |                |  |  |  |  |  |  |

**Justification:**  
For procurement of additional SRBMD/DSWS components.



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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |   |                     |               |                      |                     |               | Date: May 2021  |                     |               |                      |                     |               |                      |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                     |               |                      |                     |               | P-1 Line Item Number / Title:<br>MD34 / Short Range Ballistic Missile Defense (SRBMD)<br>(David's Sling Weapon System (DSWS)) |                     |               |                      |                     |               | Item Number / Title [DODIC]:<br>1 / David's Sling Weapon System [1] |                     |               |                      |                     |               |                      |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |   |                     |               |                      | MDAP/MAIS Code:     |               |   |                     |               |                      |                     |               |                      |
| Resource Summary   |                     |               |                      | Prior Years         |               | FY 2020   |                     | FY 2021       |                      | FY 2022 Base        |               | FY 2022 OCO   |                     | FY 2022 Total |                      |                     |               |                      |
| Procurement Quantity <i>(Units in Each)</i>  |                     |               |                      | 4                   |               | 1   |                     | 1             |                      | 1                   |               | -   |                     | 1             |                      |                     |               |                      |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>   |                     |               |                      | 470.000             |               | 50.000  |                     | 50.000        |                      | 30.000              |               | -   |                     | 30.000        |                      |                     |               |                      |
| Less PY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               | 0.000   |                     | 0.000         |                      | -                   |               | -   |                     | -             |                      |                     |               |                      |
| Net Procurement (P-1) <i>(\$ in Millions)</i>  |                     |               |                      | 470.000             |               | 50.000  |                     | 50.000        |                      | 30.000              |               | -   |                     | 30.000        |                      |                     |               |                      |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               | 0.000   |                     | 0.000         |                      | -                   |               | -   |                     | -             |                      |                     |               |                      |
| Total Obligation Authority <i>(\$ in Millions)</i>   |                     |               |                      | 470.000             |               | 50.000  |                     | 50.000        |                      | 30.000              |               | -   |                     | 30.000        |                      |                     |               |                      |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)                 |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| Initial Spares <i>(\$ in Millions)</i>   |                     |               |                      | -                   |               | -   |                     | -             |                      | -                   |               | -   |                     | -             |                      |                     |               |                      |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>  |                     |               |                      | 117.500             |               | 50.000  |                     | 50.000        |                      | 30.000              |               | -   |                     | 30.000        |                      |                     |               |                      |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| Cost Elements  | Prior Years         |               |                      | FY 2020             |               |   | FY 2021             |               |                      | FY 2022 Base        |               |   | FY 2022 OCO         |               |                      | FY 2022 Total       |               |                      |
|  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |
| Hardware Cost  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| Recurring Cost   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |
| David's Sling Weapon System  | 117.500             | 4             | 470.000              | 50.000              | 1             | 50.000  | 50.000              | 1             | 50.000               | 30.000              | 1             | 30.000  | -                   | -             | -                    | 30.000              | 1             | 30.000               |
| Subtotal: Recurring Cost   | -                   | -             | 470.000              | -                   | -             | 50.000  | -                   | -             | 50.000               | -                   | -             | 30.000  | -                   | -             | -                    | -                   | -             | 30.000               |
| Subtotal: Hardware Cost  | -                   | -             | 470.000              | -                   | -             | 50.000  | -                   | -             | 50.000               | -                   | -             | 30.000  | -                   | -             | -                    | -                   | -             | 30.000               |
| Gross/Weapon System Cost   | 117.500             | 4             | 470.000              | 50.000              | 1             | 50.000  | 50.000              | 1             | 50.000               | 30.000              | 1             | 30.000  | -                   | -             | -                    | 30.000              | 1             | 30.000               |
| Remarks:<br>DSWS/SRBMD component procurement. Quantities are classified. The unit quantity of one is used as a proxy in each fiscal year with Funding. |                     |               |                      |                     |               |   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |                      |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency | <b>Date:</b> May 2021 |
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|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency | <b>P-1 Line Item Number / Title:</b><br>MD65 / Defense of Guam Procurement |
|--|--|

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| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B | <b>Program Elements for Code B Items:</b> N/A | <b>Other Related Program Elements:</b> 0604102C |
|--|---|---|

**Line Item MDAP/MAIS Code:** 362

| Resource Summary  | Prior Years  | FY 2020      | FY 2021      | FY 2022 Base  | FY 2022 OCO | FY 2022 Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
|---|--------------|--------------|--------------|---------------|-------------|---------------|---------|---------|---------|---------|-------------|-------|
| Procurement Quantity ( <i>Units in Each</i> )   | 0            | -            | -            | -             | -           | -             | -       | -       | -       | -       | -           | -     |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )  | 0.000        | 0.000        | 0.000        | 40.000        | -           | 40.000        | -       | -       | -       | -       | -           | -     |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000        | 0.000        | 0.000        | -             | -           | -             | -       | -       | -       | -       | -           | -     |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )   | 0.000        | 0.000        | 0.000        | 40.000        | -           | 40.000        | -       | -       | -       | -       | -           | -     |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000        | 0.000        | 0.000        | -             | -           | -             | -       | -       | -       | -       | -           | -     |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )   | <b>0.000</b> | <b>0.000</b> | <b>0.000</b> | <b>40.000</b> | -           | <b>40.000</b> | -       | -       | -       | -       | -           | -     |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> |              |              |              |               |             |               |         |         |         |         |             |       |
| Initial Spares ( <i>\$ in Millions</i> )  | 0.000        | -            | -            | -             | -           | -             | -       | -       | -       | -       | -           | -     |
| Flyaway Unit Cost ( <i>\$ in Millions</i> )   | 0.000        | -            | -            | -             | -           | -             | -       | -       | -       | -       | -           | -     |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )   | 0.000        | 0.000        | 0.000        | -             | -           | -             | -       | -       | -       | -       | -           | -     |

**Description:**

Note: The increase from FY 2021 to FY 2022 provides the procurement of initial materials in support of an integrated air and missile defense (IAMD) system on Guam.

The Department is in the process of finalizing the details of this IAMD system, therefore the material procured with this funding shall not be used to procure items that are unique to any given IAMD architecture. However, all architectures under consideration carry some common elements, such as Fire Control System Transmitters, Directors, and processing equipment, Solid State Radar Components, Common Display Processing Equipment. The final configuration for IAMD on Guam will be made based on the results of the MDA and Cost Assessment and Program Evaluation (CAPE) architecture studies.

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                                       |             |       |   |  |  |   | <b>Date:</b> May 2021                    |  |  |
|---|---------------------------------------|-------------|-------|---|--|--|---|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency        |                                       |             |       |   |  | <b>P-1 Line Item Number / Title:</b><br>MD65 / Defense of Guam Procurement |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): B  |                                       |             |       | <b>Program Elements for Code B Items:</b> N/A |  |  | <b>Other Related Program Elements:</b> 0604102C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                                       |             |       |   |  |  |   |  |  |  |
| Exhibits Schedule   |                                       |             |       |   | Prior Years                              | FY 2020  | FY 2021   | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type  | Title*                                | Subexhibits | ID CD | MDAP/MAIS Code                                | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                                   | Quantity / Total Cost<br>(Each) / (\$ M)        | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5   | GDS Equipment                         |             | B     |   | 0 / 0.000                                | - / 0.000  | - / 0.000                                       | - / 40.000                               | - / -                                    | - / 40.000                               |
| <b>P-40</b>   | <b>Total Gross/Weapon System Cost</b> |             |       |   | <b>0 / 0.000</b>                         | <b>- / 0.000</b>   | <b>- / 0.000</b>                                | <b>- / 40.000</b>                        | <b>- / -</b>                             | <b>- / 40.000</b>                        |
| <small>*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.</small> |                                       |             |       |   |  |  |   |  |  |  |
| <small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>   |                                       |             |       |   |  |  |   |  |  |  |

**Justification:**

Defense of Guam Procurement is a new start in FY 2022. MDA plans to begin purchasing material that are common to the architectures under consideration, consistent with Department decisions based on CAPE and MDA studies such as:

- Fire Control System Transmitters, Directors, and processing equipment
- Solid State Radar Components
- Common Display Processing Equipment

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| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |  |                             |                       |                                  |                             |                       |  |                             |                       |                                  |                             |                       |                                  | <b>Date:</b> May 2021                                |                       |                                  |                             |                       |                                  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |  |                             |                       |                                  |                             |                       | <b>P-1 Line Item Number / Title:</b><br>MD65 / Defense of Guam Procurement |                             |                       |                                  |                             |                       |                                  | <b>Item Number / Title [DODIC]:</b><br>GDS Equipment |                       |                                  |                             |                       |                                  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B   |  |                             |                       |                                  |                             |                       |  |                             |                       | <b>MDAP/MAIS Code:</b>           |                             |                       |                                  |  |                       |                                  |                             |                       |                                  |  |  |
| <b>Resource Summary</b>   |  |                             |                       | <b>Prior Years</b>               |                             |                       | <b>FY 2020</b>   |                             |                       | <b>FY 2021</b>                   |                             |                       | <b>FY 2022 Base</b>              |  |                       | <b>FY 2022 OCO</b>               |                             |                       | <b>FY 2022 Total</b>             |  |  |
| Procurement Quantity <i>(Units in Each)</i>   |  |                             |                       | 0                                |                             |                       | -  |                             |                       | -                                |                             |                       | -                                |  |                       | -                                |                             |                       | -                                |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>  |  |                             |                       | 0.000                            |                             |                       | 0.000  |                             |                       | 0.000                            |                             |                       | 40.000                           |  |                       | -                                |                             |                       | 40.000                           |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>   |  |                             |                       | 0.000                            |                             |                       | 0.000  |                             |                       | 0.000                            |                             |                       | -                                |  |                       | -                                |                             |                       | -                                |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>   |  |                             |                       | 0.000                            |                             |                       | 0.000  |                             |                       | 0.000                            |                             |                       | 40.000                           |  |                       | -                                |                             |                       | 40.000                           |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>   |  |                             |                       | 0.000                            |                             |                       | 0.000  |                             |                       | 0.000                            |                             |                       | -                                |  |                       | -                                |                             |                       | -                                |  |  |
| <b>Total Obligation Authority <i>(\$ in Millions)</i></b>   |  |                             |                       | <b>0.000</b>                     |                             |                       | <b>0.000</b>   |                             |                       | <b>0.000</b>                     |                             |                       | <b>40.000</b>                    |  |                       | <b>-</b>                         |                             |                       | <b>40.000</b>                    |  |  |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>   |  |                             |                       |                                  |                             |                       |  |                             |                       |                                  |                             |                       |                                  |  |                       |                                  |                             |                       |                                  |  |  |
| Initial Spares <i>(\$ in Millions)</i>  |  |                             |                       | -                                |                             |                       | -  |                             |                       | -                                |                             |                       | -                                |  |                       | -                                |                             |                       | -                                |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>   |  |                             |                       | 0.000                            |                             |                       | 0.000  |                             |                       | 0.000                            |                             |                       | -                                |  |                       | -                                |                             |                       | -                                |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |  |                             |                       |                                  |                             |                       |  |                             |                       |                                  |                             |                       |                                  |  |                       |                                  |                             |                       |                                  |  |  |
| <b>Cost Elements</b>  |  | <b>Prior Years</b>          |                       |                                  | <b>FY 2020</b>              |                       |  | <b>FY 2021</b>              |                       |                                  | <b>FY 2022 Base</b>         |                       |                                  | <b>FY 2022 OCO</b>                                   |                       |                                  | <b>FY 2022 Total</b>        |                       |                                  |  |  |
|   |  | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total<br/>Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total<br/>Cost<br/>(\$ M)</b>   | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total<br/>Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total<br/>Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b>                          | <b>Qty<br/>(Each)</b> | <b>Total<br/>Cost<br/>(\$ M)</b> | <b>Unit Cost<br/>(\$ M)</b> | <b>Qty<br/>(Each)</b> | <b>Total<br/>Cost<br/>(\$ M)</b> |  |  |
| Hardware Cost   |  |                             |                       |                                  |                             |                       |  |                             |                       |                                  |                             |                       |                                  |  |                       |                                  |                             |                       |                                  |  |  |
| Non Recurring Cost  |  |                             |                       |                                  |                             |                       |  |                             |                       |                                  |                             |                       |                                  |  |                       |                                  |                             |                       |                                  |  |  |
| Common Material Components  |  | -                           | -                     | -                                | -                           | -                     | -  | -                           | -                     | -                                | 40.000                      | 1                     | 40.000                           | -  | -                     | -                                | 40.000                      | 1                     | 40.000                           |  |  |
| <i>Subtotal: Non Recurring Cost</i>   |  | -                           | -                     | -                                | -                           | -                     | -  | -                           | -                     | -                                | -                           | -                     | 40.000                           | -  | -                     | -                                | -                           | -                     | 40.000                           |  |  |
| <i>Subtotal: Hardware Cost</i>  |  | -                           | -                     | -                                | -                           | -                     | -  | -                           | -                     | -                                | -                           | -                     | 40.000                           | -  | -                     | -                                | -                           | -                     | 40.000                           |  |  |
| <b>Gross/Weapon System Cost</b>   |  | <b>0.000</b>                | <b>0</b>              | <b>0.000</b>                     | <b>0.000</b>                | <b>-</b>              | <b>0.000</b>   | <b>0.000</b>                | <b>-</b>              | <b>0.000</b>                     | <b>-</b>                    | <b>-</b>              | <b>40.000</b>                    | <b>-</b>   | <b>-</b>              | <b>-</b>                         | <b>-</b>                    | <b>-</b>              | <b>40.000</b>                    |  |  |
| <b>Remarks:</b><br>Common IAMD elements include:<br>-Fire Control System Transmitters, Directors, and processing equipment<br>-Solid State Radar Components<br>-Common Display Processing Equipment |  |                             |                       |                                  |                             |                       |  |                             |                       |                                  |                             |                       |                                  |  |                       |                                  |                             |                       |                                  |  |  |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                    |                |  |                     |                    |                      |   |                |                | <b>Date:</b> May 2021 |                    |              |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency  |                    |                |  |                     |                    |                      | <b>P-1 Line Item Number / Title:</b><br>MD73 / Aegis Ashore Phase III |                |                |                       |                    |              |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                    |                | <b>Program Elements for Code B Items:</b> 0604881C, 0603892C, 0604880C |                     |                    |                      | <b>Other Related Program Elements:</b> 0604880C                       |                |                |                       |                    |              |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                    |                |  |                     |                    |                      |   |                |                |                       |                    |              |
| <b>Resource Summary</b>   | <b>Prior Years</b> | <b>FY 2020</b> | <b>FY 2021</b>   | <b>FY 2022 Base</b> | <b>FY 2022 OCO</b> | <b>FY 2022 Total</b> | <b>FY 2023</b>  | <b>FY 2024</b> | <b>FY 2025</b> | <b>FY 2026</b>        | <b>To Complete</b> | <b>Total</b> |
| Procurement Quantity ( <i>Units in Each</i> )   | 1                  | -              | -  | -                   | -                  | -                    | -   | -              | -              | -                     | -                  | -            |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )  | 514.820            | 26.495         | 34.629   | 25.866              | -                  | 25.866               | -   | -              | -              | -                     | -                  | -            |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 0.000  | -                   | -                  | -                    | -   | -              | -              | -                     | -                  | -            |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )   | 514.820            | 26.495         | 34.629   | 25.866              | -                  | 25.866               | -   | -              | -              | -                     | -                  | -            |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 0.000  | -                   | -                  | -                    | -   | -              | -              | -                     | -                  | -            |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )   | <b>514.820</b>     | <b>26.495</b>  | <b>34.629</b>  | <b>25.866</b>       | -                  | <b>25.866</b>        | -   | -              | -              | -                     | -                  | -            |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>   |                    |                |  |                     |                    |                      |   |                |                |                       |                    |              |
| Initial Spares ( <i>\$ in Millions</i> )  | 0.000              | -              | -  | -                   | -                  | -                    | -   | -              | -              | -                     | -                  | -            |
| Flyaway Unit Cost ( <i>\$ in Millions</i> )   | 0.000              | -              | -  | -                   | -                  | -                    | -   | -              | -              | -                     | -                  | -            |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )   | 514.820            | 0.000          | 0.000  | -                   | -                  | -                    | -   | -              | -              | -                     | -                  | -            |
| <p><b>Description:</b></p> <p>Note: The decrease from FY 2021 to FY 2022 reflects planned program maturation costs to meet European Phased Adaptive Approach (EPAA) Phase III Technical Capability Declaration (TCD) in FY 2022.</p> <p>On 17 December 2009, the President announced an overarching policy to provide regional missile defense to U.S. deployed forces, allies and partners in Europe called the European Phased Adaptive Approach (EPAA). Within this policy, a European PAA specifically addresses a timeline to deploy a mix of afloat and land-based Missile Defense (MD) capabilities. Aegis Ashore represents one of these land-based capabilities.</p> <p>Aegis Ashore provides the Aegis Missile Defense capability against short and medium range ballistic missiles in an ashore configuration. It will be similar to the Aegis At-Sea BMD capability inherent in the new Arleigh Burke-class Aegis destroyers (DDG-113 and following ships) to facilitate training and logistical support by the lead service, Navy. Aegis Ashore re-hosts the required BMD components of a Navy Destroyer in an ashore configuration to include a Deckhouse structure and Weapon System comprised of an AN/SPY-1D(V) radar, Vertical Launch System (VLS), computing infrastructure, Command, Control, Communications, Computers and Intelligence (C4I) systems, and operator consoles. Aegis Ashore can adapt to the threat and can be deployed to other regions as needed to provide persistent coverage for the Geographic Combatant Commanders. Phase III of EPAA (FY 2022) deploys a land based Aegis Ashore in Poland, and introduces an upgraded Standard Missile, the SM-3 Block IIA. This missile brings improved coverage against medium and intermediate range ballistic threats.</p> |                    |                |  |                     |                    |                      |   |                |                |                       |                    |              |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |  |                    |              |  |  |   | <b>Date:</b> May 2021                           |  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency  |  |                    |              |  |  | <b>P-1 Line Item Number / Title:</b><br>MD73 / Aegis Ashore Phase III |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |  |                    |              | <b>Program Elements for Code B Items:</b> 0604881C, 0603892C, 0604880C |  |   | <b>Other Related Program Elements:</b> 0604880C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362  |  |                    |              |  |  |   |   |  |  |  |
| <b>Exhibits Schedule</b>  |  |                    |              |  | <b>Prior Years</b>                           | <b>FY 2020</b>  | <b>FY 2021</b>                                  | <b>FY 2022 Base</b>                          | <b>FY 2022 OCO</b>                           | <b>FY 2022 Total</b>                         |
| <b>Exhibit Type</b>   | <b>Title*</b>                                | <b>Subexhibits</b> | <b>ID CD</b> | <b>MDAP/MAIS Code</b>  | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b>                          | <b>Quantity / Total Cost (Each) / (\$ M)</b>    | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b> | <b>Quantity / Total Cost (Each) / (\$ M)</b> |
| P-5   | Aegis Ashore Poland, Equipment and Deckhouse | P-5a, P-21         | A            |  | 1 / 514.820                                  | - / 26.495  | - / 34.629                                      | - / 25.866                                   | - / -  | - / 25.866                                   |
| <b>P-40</b>   | <b>Total Gross/Weapon System Cost</b>        |                    |              |  | <b>1 / 514.820</b>                           | <b>- / 26.495</b>   | <b>- / 34.629</b>                               | <b>- / 25.866</b>                            | <b>- / -</b>                                 | <b>- / 25.866</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.  |  |                    |              |  |  |   |   |  |  |  |
| <p><b>Justification:</b><br/>         The Aegis Ashore to be installed in Poland contains a Deckhouse structure and Weapon System comprised of a AN/SPY-1D(V) radar, Vertical Launch System (VLS), computing infrastructure, Command, Control, Communications, Computers and Intelligence (C4I) systems, and operator consoles with very diverse procurement lead times from multiple contracts. The funding profile addresses the multiple actions required to field the Aegis Ashore end item in Poland in FY 2022, keep the individual components up to date with the Navy's destroyer modernization plan and install modifications as required to enhance co-existence with Broadband Wireless Access systems in the European theater. MDA uses Research Development, Test, and Evaluation (RDT&amp;E) (Program Element (PE)-0604880C) to modernize, develop and test Aegis Ashore capability improvements at the Aegis Ashore Missile Defense Test Complex (AAMDTC) in Hawaii for implementation at operational sites. Procurement funding provides the following:</p> <p>FY 2016 Fabrication of the Deckhouse structure and assembly of Aegis Ashore Deckhouse structure in Poland.<br/>         FY 2017 Install Aegis Ashore Weapon System in the Aegis Ashore Deckhouse structure in Poland.<br/>         FY 2018 Continue installation of the Aegis Ashore Weapon System in the Aegis Ashore Deckhouse structure in Poland.<br/>         FY 2019 Continue installation of the combat system and combat structure adaptation, integration and installation<br/>         FY 2020 Continue installation of the combat system and combat structure adaptation, integration and installation<br/>         FY 2021 Continue installation of the combat system and combat structure adaptation, integration and installation<br/>         FY 2022 Complete weapon system commissioning prior to Chief of Naval Operations acceptance and EUCOM acceptance</p> |  |                    |              |  |  |   |   |  |  |  |



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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |                  |            |                   |                  |            |  |                  |            |                   |                  |            | Date: May 2021   |                  |               |                   |                  |            |                   |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                  |            |                   |                  |            | P-1 Line Item Number / Title:<br>MD73 / Aegis Ashore Phase III |                  |            |                   |                  |            | Item Number / Title [DODIC]:<br>Aegis Ashore Poland, Equipment and Deckhouse |                  |               |                   |                  |            |                   |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |                  |            |                   |                  |            |  |                  |            |                   | MDAP/MAIS Code:  |            |  |                  |               |                   |                  |            |                   |
| Resource Summary   |                  |            |                   | Prior Years      |            | FY 2020  |                  | FY 2021    |                   | FY 2022 Base     |            | FY 2022 OCO  |                  | FY 2022 Total |                   |                  |            |                   |
| Procurement Quantity (Units in Each)   |                  |            |                   | 1                |            | -  |                  | -          |                   | -                |            | -  |                  | -             |                   | -                |            |                   |
| Gross/Weapon System Cost (\$ in Millions)  |                  |            |                   | 514.820          |            | 26.495   |                  | 34.629     |                   | 25.866           |            | -  |                  | -             |                   | 25.866           |            |                   |
| Less PY Advance Procurement (\$ in Millions)   |                  |            |                   | 0.000            |            | 0.000  |                  | 0.000      |                   | -                |            | -  |                  | -             |                   | -                |            |                   |
| Net Procurement (P-1) (\$ in Millions)   |                  |            |                   | 514.820          |            | 26.495   |                  | 34.629     |                   | 25.866           |            | -  |                  | -             |                   | 25.866           |            |                   |
| Plus CY Advance Procurement (\$ in Millions)   |                  |            |                   | 0.000            |            | 0.000  |                  | 0.000      |                   | -                |            | -  |                  | -             |                   | -                |            |                   |
| Total Obligation Authority (\$ in Millions)  |                  |            |                   | 514.820          |            | 26.495   |                  | 34.629     |                   | 25.866           |            | -  |                  | -             |                   | 25.866           |            |                   |
| (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)   |                  |            |                   | 514.820          |            | 0.000  |                  | 0.000      |                   | -                |            | -  |                  | -             |                   | -                |            |                   |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                  |            |                   |                  |            |  |                  |            |                   |                  |            |  |                  |               |                   |                  |            |                   |
| Cost Elements  | Prior Years      |            |                   | FY 2020          |            |  | FY 2021          |            |                   | FY 2022 Base     |            |  | FY 2022 OCO      |               |                   | FY 2022 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) |
| Flyaway Cost   |                  |            |                   |                  |            |  |                  |            |                   |                  |            |  |                  |               |                   |                  |            |                   |
| Recurring Cost   |                  |            |                   |                  |            |  |                  |            |                   |                  |            |  |                  |               |                   |                  |            |                   |
| Aegis Ashore Poland, Equipment and Deckhouse <sup>(†)</sup>  | 514.820          | 1          | 514.820           | -                | -          | 26.495   | -                | -          | 34.629            | -                | -          | 25.866   | -                | -             | -                 | -                | -          | 25.866            |
| Subtotal: Recurring Cost   | -                | -          | 514.820           | -                | -          | 26.495   | -                | -          | 34.629            | -                | -          | 25.866   | -                | -             | -                 | -                | -          | 25.866            |
| Subtotal: Flyaway Cost   | -                | -          | 514.820           | -                | -          | 26.495   | -                | -          | 34.629            | -                | -          | 25.866   | -                | -             | -                 | -                | -          | 25.866            |
| Gross/Weapon System Cost   | 514.820          | 1          | 514.820           | 0.000            | -          | 26.495   | 0.000            | -          | 34.629            | -                | -          | 25.866   | -                | -             | -                 | -                | -          | 25.866            |
| Remarks:<br>N/A  |                  |            |                   |                  |            |  |                  |            |                   |                  |            |  |                  |               |                   |                  |            |                   |
| (†) indicates the presence of a P-5a   |                  |            |                   |                  |            |  |                  |            |                   |                  |            |  |                  |               |                   |                  |            |                   |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                         |  |                 |               |                              |                      | Date: May 2021   |                        |                               |                   |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17      |             |      |                         | P-1 Line Item Number / Title:<br>MD73 / Aegis Ashore Phase III |                 |               |                              |                      | Item Number / Title [DODIC]:<br>Aegis Ashore Poland, Equipment and Deckhouse |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location | Method/Type<br>or<br>Funding Vehicle                           | Location of PCO | Award<br>Date | Date<br>of First<br>Delivery | Qty<br><i>(Each)</i> | Unit Cost<br><i>(\$ M)</i>   | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Aegis Ashore Poland, Equipment and Deckhouse <sup>(†)</sup>                    |             | 2015 | USACE / Poland          | MIPR   | Dahlgren VA     | Jan 2016      | Jun 2022                     | 1                    | 0.000  | N                      |                               |                   |

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

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |      |      |         |          |                            |                     |  |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     | Date: May 2021   |     |     |     |     |     |     |         |   |
|---|------|------|---------|----------|----------------------------|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|---------|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |      |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD73 / Aegis Ashore Phase III |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     | Item Number / Title [DODIC]:<br>Aegis Ashore Poland, Equipment and Deckhouse |     |     |     |     |     |     |         |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |      |      |         |          |                            |                     | Fiscal Year 2016   |     |     |     |     |     |     |     |     |     |     |     | Fiscal Year 2017   |     |     |     |     |  |     |     |     |     |     |     | BALANCE |   |
| OCO   | MFR# | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | Calendar Year 2016   |     |     |     |     |     |     |     |     |     |     |     | Calendar Year 2017 |     |     |     |     |  |     |     |     |     |     |     |         |   |
|   |      |      |         |          |                            |                     | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR  | APR | MAY | JUN | JUL | AUG | SEP |         |   |
| Aegis Ashore Poland, Equipment and Deckhouse                              |      |      |         |          |                            |                     |  |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |  |     |     |     |     |     |     |         |   |
|   | 1    | 2015 | MDA     |          | 1                          | 0                   | 1  |     |     |     | A   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -   | -       | 1 |
|   |      |      |         |          |                            |                     |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP     |   |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |  |                              |  |             |             |             |             |             |             |             |             |             |             |             |             |             |  |             |             | Date: May 2021 |             |             |             |             |             |             |   |  |  |  |         |
|---|------------------|------|---------|-------------|--|------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|---|--|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              | P-1 Line Item Number / Title:<br>MD73 / Aegis Ashore Phase III |             |             |             |             |             |             |             |             |             |             |             |             |             | Item Number / Title [DODIC]:<br>Aegis Ashore Poland, Equipment and Deckhouse |             |             |                |             |             |             |             |             |             |   |  |  |  |         |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |      |         |             |  |                              | Fiscal Year 2018   |             |             |             |             |             |             |             |             |             |             |             |             |             | Fiscal Year 2019   |             |             |                |             |             |             |             |             |             |   |  |  |  | BALANCE |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2017 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2018   |             |             |             |             |             |             |             |             |             |             |             |             |             | Calendar Year 2019   |             |             |                |             |             |             |             |             |             |   |  |  |  |         |
|   |                  |      |         |             |  |                              | O<br>C<br>T  | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C  | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R    | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |  |  |  |         |
| Aegis Ashore Poland, Equipment and Deckhouse                              |                  |      |         |             |  |                              |  |             |             |             |             |             |             |             |             |             |             |             |             |             |  |             |             |                |             |             |             |             |             |             |   |  |  |  |         |
|   | 1                | 2015 | MDA     | 1           | 0                                      | 1                            | -  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -  | -           | -           | -              | -           | -           | -           | -           | -           | -           | 1 |  |  |  |         |
|   |                  |      |         |             |  |                              | O<br>C<br>T  | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C  | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R    | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |  |  |  |         |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |  |                              |  |             |             |             |             |             |             |             |             |             |             |             |             |             |  |             |             | Date: May 2021 |             |             |             |             |             |             |   |   |  |  |         |
|---|------------------|------|---------|-------------|--|------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              | P-1 Line Item Number / Title:<br>MD73 / Aegis Ashore Phase III |             |             |             |             |             |             |             |             |             |             |             |             |             | Item Number / Title [DODIC]:<br>Aegis Ashore Poland, Equipment and Deckhouse |             |             |                |             |             |             |             |             |             |   |   |  |  |         |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |  |                              | Fiscal Year 2020   |             |             |             |             |             |             |             |             |             |             |             |             |             | Fiscal Year 2021   |             |             |                |             |             |             |             |             |             |   |   |  |  | BALANCE |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2019 | BAL<br>DUE<br>AS OF<br>1 OCT | Calendar Year 2020   |             |             |             |             |             |             |             |             |             |             |             |             |             | Calendar Year 2021   |             |             |                |             |             |             |             |             |             |   |   |  |  |         |
|   |                  |      |         |             |  |                              | O<br>C<br>T  | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C  | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R    | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |   |  |  |         |
| Aegis Ashore Poland, Equipment and Deckhouse                              |                  |      |         |             |  |                              |  |             |             |             |             |             |             |             |             |             |             |             |             |             |  |             |             |                |             |             |             |             |             |             |   |   |  |  |         |
|   | 1                | 2015 | MDA     | 1           | 0                                      | 1                            | -  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -  | -           | -           | -              | -           | -           | -           | -           | -           | -           | - | 1 |  |  |         |
|   |                  |      |         |             |  |                              | O<br>C<br>T  | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C  | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R    | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |   |  |  |         |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     | Date: May 2021   |     |     |     |     |     |     |     |     |     |         |     |   |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD73 / Aegis Ashore Phase III |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Aegis Ashore Poland, Equipment and Deckhouse |     |     |     |     |     |     |     |     |     |         |     |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |       |      |         |          |                            |                     | Fiscal Year 2022   |     |     |  |     |     |     |     |     |     | Fiscal Year 2023   |     |     |  |     |     |     |     |     |     |     |     |     | BALANCE |     |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 |     |     |  |     |     |     |     |     |     | Calendar Year 2023 |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |   |
| Aegis Ashore Poland, Equipment and Deckhouse                              |       |      |         |          |                            |                     |                    |     |     |  |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   | 1     | 2015 | MDA     | 1        | 0                          | 1                   | -                  | -   | -   | -  | -   | -   | -   | -   | 1   |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     | 0 |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |   |

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| <b>Exhibit P-21, Production Schedule:</b> PB 2022 Missile Defense Agency         |  |  |   | <b>Date:</b> May 2021 |  |   |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17 |  |  | <b>P-1 Line Item Number / Title:</b><br>MD73 / Aegis Ashore Phase III |                       |  | <b>Item Number / Title [DODIC]:</b><br>Aegis Ashore Poland, Equipment and Deckhouse |  |

| MFR<br>Ref<br># | Manufacturer<br>Name - Location | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months) |                    |                      |                      |                       |                    |                      |                      |
|-----------------|---------------------------------|---------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
|                 |                                 | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial                       |                    |                      |                      | Reorder               |                    |                      |                      |
|                 |                                 |                                 |                |              | ALT<br>Prior to Oct 1         | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1 | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 |
| 1               | USACE - Poland                  |                                 |                |              | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |

"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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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency | <b>Date:</b> May 2021 |
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|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency | <b>P-1 Line Item Number / Title:</b><br>MD83 / Iron Dome |
|--|--|

|  |   |   |
|--|---|---|
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A | <b>Program Elements for Code B Items:</b> N/A | <b>Other Related Program Elements:</b> 0603913C |
|--|---|---|

**Line Item MDAP/MAIS Code:** 362

| Resource Summary   | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total      |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|------------|
| Procurement Quantity ( <i>Units in Each</i> )  | 8           | 1       | 1       | 1            | -           | 1             | -       | -       | -       | -       | Continuing  | Continuing |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )   | 1,473.630   | 95.000  | 73.000  | 108.000      | -           | 108.000       | -       | -       | -       | -       | Continuing  | Continuing |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )  | 0.000       | 0.000   | 0.000   | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )  | 1,473.630   | 95.000  | 73.000  | 108.000      | -           | 108.000       | -       | -       | -       | -       | Continuing  | Continuing |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )  | 0.000       | 0.000   | 0.000   | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Total Obligation Authority ( <i>\$ in Millions</i> )   | 1,473.630   | 95.000  | 73.000  | 108.000      | -           | 108.000       | -       | -       | -       | -       | Continuing  | Continuing |
| (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> )  | 0.000       | -       | -       | -            | -           | -             | -       | -       | -       | -       | -           | -          |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )  | 184.204     | 95.000  | 73.000  | 108.000      | -           | 108.000       | -       | -       | -       | -       | Continuing  | Continuing |

**Description:**

Provides funding to the Government of Israel to procure Iron Dome components. Quantities are classified. The unit quantity of one is used as a proxy in each fiscal year with funding.  
Funding profile mirrors the Program Funding Baseline that has been coordinated with Israeli Missile Defense Organization based on the Strategic Plan of the MOU between Israel and the U.S.

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                                       |             |       |   |  |  |   | <b>Date:</b> May 2021                    |  |  |
|---|---------------------------------------|-------------|-------|---|--|--|---|--|--|--|
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency        |                                       |             |       |   |  | <b>P-1 Line Item Number / Title:</b><br>MD83 / Iron Dome |   |  |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                                       |             |       | <b>Program Elements for Code B Items:</b> N/A |  |  | <b>Other Related Program Elements:</b> 0603913C |  |  |  |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                                       |             |       |   |  |  |   |  |  |  |
| Exhibits Schedule   |                                       |             |       |   | Prior Years                              | FY 2020  | FY 2021   | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type  | Title*                                | Subexhibits | ID CD | MDAP/MAIS Code                                | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M)                 | Quantity / Total Cost<br>(Each) / (\$ M)        | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5   | Iron Dome                             |             | A     |   | 8 / 1,473.630                            | 1 / 95.000   | 1 / 73.000                                      | 1 / 108.000                              | - / -                                    | 1 / 108.000                              |
| <b>P-40</b>   | <b>Total Gross/Weapon System Cost</b> |             |       |   | <b>8 / 1,473.630</b>                     | <b>1 / 95.000</b>  | <b>1 / 73.000</b>                               | <b>1 / 108.000</b>                       | <b>- / -</b>                             | <b>1 / 108.000</b>                       |
| <small>*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.</small> |                                       |             |       |   |  |  |   |  |  |  |
| <small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>   |                                       |             |       |   |  |  |   |  |  |  |

**Justification:**  
For procurement of additional Iron Dome components.

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|---|--|----------------------------|----------------------|-----------------------------|----------------------------|----------------------|--|----------------------------|----------------------|-----------------------------|----------------------------|----------------------|-----------------------------|--|----------------------|-----------------------------|----------------------------|----------------------|-----------------------------|--|--|
| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency   |  |                            |                      |                             |                            |                      |  |                            |                      |                             |                            |                      |                             | <b>Date:</b> May 2021                            |                      |                             |                            |                      |                             |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17  |  |                            |                      |                             |                            |                      | <b>P-1 Line Item Number / Title:</b><br>MD83 / Iron Dome |                            |                      |                             |                            |                      |                             | <b>Item Number / Title [DODIC]:</b><br>Iron Dome |                      |                             |                            |                      |                             |  |  |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A   |  |                            |                      |                             |                            |                      |  |                            |                      | <b>MDAP/MAIS Code:</b>      |                            |                      |                             |  |                      |                             |                            |                      |                             |  |  |
| <b>Resource Summary</b>   |  |                            |                      | <b>Prior Years</b>          |                            |                      | <b>FY 2020</b>   |                            |                      | <b>FY 2021</b>              |                            |                      | <b>FY 2022 Base</b>         |  |                      | <b>FY 2022 OCO</b>          |                            |                      | <b>FY 2022 Total</b>        |  |  |
| Procurement Quantity ( <i>Units in Each</i> )   |  |                            |                      | 8                           |                            |                      | 1  |                            |                      | 1                           |                            |                      | 1                           |  |                      | -                           |                            |                      | 1                           |  |  |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )  |  |                            |                      | 1,473.630                   |                            |                      | 95.000   |                            |                      | 73.000                      |                            |                      | 108.000                     |  |                      | -                           |                            |                      | 108.000                     |  |  |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )   |  |                            |                      | 0.000                       |                            |                      | 0.000  |                            |                      | 0.000                       |                            |                      | -                           |  |                      | -                           |                            |                      | -                           |  |  |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )   |  |                            |                      | 1,473.630                   |                            |                      | 95.000   |                            |                      | 73.000                      |                            |                      | 108.000                     |  |                      | -                           |                            |                      | 108.000                     |  |  |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )   |  |                            |                      | 0.000                       |                            |                      | 0.000  |                            |                      | 0.000                       |                            |                      | -                           |  |                      | -                           |                            |                      | -                           |  |  |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )   |  |                            |                      | <b>1,473.630</b>            |                            |                      | <b>95.000</b>  |                            |                      | <b>73.000</b>               |                            |                      | <b>108.000</b>              |  |                      | <b>-</b>                    |                            |                      | <b>108.000</b>              |  |  |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>                               |  |                            |                      |                             |                            |                      |  |                            |                      |                             |                            |                      |                             |  |                      |                             |                            |                      |                             |  |  |
| Initial Spares ( <i>\$ in Millions</i> )  |  |                            |                      | -                           |                            |                      | -  |                            |                      | -                           |                            |                      | -                           |  |                      | -                           |                            |                      | -                           |  |  |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )   |  |                            |                      | 184.204                     |                            |                      | 95.000   |                            |                      | 73.000                      |                            |                      | 108.000                     |  |                      | -                           |                            |                      | 108.000                     |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.  |  |                            |                      |                             |                            |                      |  |                            |                      |                             |                            |                      |                             |  |                      |                             |                            |                      |                             |  |  |
| <b>Cost Elements</b>  |  | <b>Prior Years</b>         |                      |                             | <b>FY 2020</b>             |                      |  | <b>FY 2021</b>             |                      |                             | <b>FY 2022 Base</b>        |                      |                             | <b>FY 2022 OCO</b>                               |                      |                             | <b>FY 2022 Total</b>       |                      |                             |  |  |
|   |  | <b>Unit Cost</b><br>(\$ M) | <b>Qty</b><br>(Each) | <b>Total Cost</b><br>(\$ M) | <b>Unit Cost</b><br>(\$ M) | <b>Qty</b><br>(Each) | <b>Total Cost</b><br>(\$ M)                              | <b>Unit Cost</b><br>(\$ M) | <b>Qty</b><br>(Each) | <b>Total Cost</b><br>(\$ M) | <b>Unit Cost</b><br>(\$ M) | <b>Qty</b><br>(Each) | <b>Total Cost</b><br>(\$ M) | <b>Unit Cost</b><br>(\$ M)                       | <b>Qty</b><br>(Each) | <b>Total Cost</b><br>(\$ M) | <b>Unit Cost</b><br>(\$ M) | <b>Qty</b><br>(Each) | <b>Total Cost</b><br>(\$ M) |  |  |
| Hardware Cost   |  |                            |                      |                             |                            |                      |  |                            |                      |                             |                            |                      |                             |  |                      |                             |                            |                      |                             |  |  |
| Recurring Cost  |  |                            |                      |                             |                            |                      |  |                            |                      |                             |                            |                      |                             |  |                      |                             |                            |                      |                             |  |  |
| Iron Dome   |  | 184.204                    | 8                    | 1,473.630                   | 95.000                     | 1                    | 95.000   | 73.000                     | 1                    | 73.000                      | 108.000                    | 1                    | 108.000                     | -  | -                    | -                           | 108.000                    | 1                    | 108.000                     |  |  |
| <i>Subtotal: Recurring Cost</i>   |  | -                          | -                    | 1,473.630                   | -                          | -                    | 95.000   | -                          | -                    | 73.000                      | -                          | -                    | 108.000                     | -  | -                    | -                           | -                          | -                    | 108.000                     |  |  |
| <i>Subtotal: Hardware Cost</i>  |  | -                          | -                    | 1,473.630                   | -                          | -                    | 95.000   | -                          | -                    | 73.000                      | -                          | -                    | 108.000                     | -  | -                    | -                           | -                          | -                    | 108.000                     |  |  |
| <b>Gross/Weapon System Cost</b>   |  | <b>184.204</b>             | <b>8</b>             | <b>1,473.630</b>            | <b>95.000</b>              | <b>1</b>             | <b>95.000</b>  | <b>73.000</b>              | <b>1</b>             | <b>73.000</b>               | <b>108.000</b>             | <b>1</b>             | <b>108.000</b>              | <b>-</b>   | <b>-</b>             | <b>-</b>                    | <b>108.000</b>             | <b>1</b>             | <b>108.000</b>              |  |  |
| <b>Remarks:</b><br>Procurement of additional Iron Dome components. Quantities are classified. The unit quantity of one is used as a proxy in each fiscal year with funding. |  |                            |                      |                             |                            |                      |  |                            |                      |                             |                            |                      |                             |  |                      |                             |                            |                      |                             |  |  |

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| <b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Missile Defense Agency   |                    |                |   |                     |                    |  |   |                |                | <b>Date:</b> May 2021 |                    |                   |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency  |                    |                |   |                     |                    | <b>P-1 Line Item Number / Title:</b><br>MD90 / Aegis BMD Hardware and Software |   |                |                |                       |                    |                   |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready): A  |                    |                | <b>Program Elements for Code B Items:</b> N/A |                     |                    |  | <b>Other Related Program Elements:</b> 0603892C |                |                |                       |                    |                   |
| <b>Line Item MDAP/MAIS Code:</b> 362  |                    |                |   |                     |                    |  |   |                |                |                       |                    |                   |
| <b>Resource Summary</b>   | <b>Prior Years</b> | <b>FY 2020</b> | <b>FY 2021</b>                                | <b>FY 2022 Base</b> | <b>FY 2022 OCO</b> | <b>FY 2022 Total</b>   | <b>FY 2023</b>                                  | <b>FY 2024</b> | <b>FY 2025</b> | <b>FY 2026</b>        | <b>To Complete</b> | <b>Total</b>      |
| Procurement Quantity ( <i>Units in Each</i> )   | 88                 | 36             | 49  | 14                  | -                  | 14   | -   | -              | -              | -                     | Continuing         | Continuing        |
| Gross/Weapon System Cost ( <i>\$ in Millions</i> )  | 436.649            | 124.150        | 104.241                                       | 81.791              | -                  | 81.791   | -   | -              | -              | -                     | Continuing         | Continuing        |
| Less PY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 0.000   | -                   | -                  | -  | -   | -              | -              | -                     | -                  | -                 |
| Net Procurement (P-1) ( <i>\$ in Millions</i> )   | 436.649            | 124.150        | 104.241                                       | 81.791              | -                  | 81.791   | -   | -              | -              | -                     | Continuing         | Continuing        |
| Plus CY Advance Procurement ( <i>\$ in Millions</i> )   | 0.000              | 0.000          | 0.000   | -                   | -                  | -  | -   | -              | -              | -                     | -                  | -                 |
| <b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )   | <b>436.649</b>     | <b>124.150</b> | <b>104.241</b>                                | <b>81.791</b>       | <b>-</b>           | <b>81.791</b>  | <b>-</b>  | <b>-</b>       | <b>-</b>       | <b>-</b>              | <b>Continuing</b>  | <b>Continuing</b> |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>   |                    |                |   |                     |                    |  |   |                |                |                       |                    |                   |
| Initial Spares ( <i>\$ in Millions</i> )  | 0.000              | -              | -   | -                   | -                  | -  | -   | -              | -              | -                     | -                  | -                 |
| Flyaway Unit Cost ( <i>\$ in Millions</i> )   | 0.000              | -              | -   | -                   | -                  | -  | -   | -              | -              | -                     | -                  | -                 |
| Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )   | 4.962              | 3.449          | 2.127   | 5.842               | -                  | 5.842  | -   | -              | -              | -                     | Continuing         | Continuing        |
| <p><b>Description:</b></p> <p>FY 2022 Base procurement budget request provides the procurement, installation, fielding and deployment of integrated Aegis Ballistic Missile Defense (BMD) combat system to operational ships and sites for homeland and regional defense. The Sea-Based mission is to deliver an enduring, operationally effective and supportable BMD capability to defend the nation, deployed forces, friends and allies, and to increase this capability by delivering evolutionary improvements as part of Ballistic Missile Defense System (BMDS) upgrades. The Aegis BMD element of the MDS capitalizes upon and evolves from the existing United States Navy Aegis Weapons System (AWS) and Standard Missile (SM) infrastructures. Aegis BMD combat system provides a forward-deployable, mobile capability to detect and track Ballistic Missiles of all ranges, and the ability to destroy Short-Range Ballistic Missiles (SRBMs), Medium-Range Ballistic Missiles (MRBMs), and Intermediate-Range Ballistic Missiles (IRBMs) in the midcourse phase of flight, and shorter range missiles in the terminal phase of flight. The Aegis BMD combat system also provides a Long Range Surveillance and Track (LRS&amp;T) capability to the MDS in support of early detection of BMD threats to the homeland. Upgrades to both the Aegis Weapon System and the SM-3 configuration provides effective and supportable defensive capability against longer range and more sophisticated threats, and an enduring Aegis Ashore defensive capability.</p> |                    |                |   |                     |                    |  |   |                |                |                       |                    |                   |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Missile Defense Agency  |                                |             |       |  |   |  |  | Date: May 2021                           |  |  |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 17: Major Equipment, Missile Defense Agency |                                |             |       |  | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A   |                                |             |       | Program Elements for Code B Items: N/A |   |  |  | Other Related Program Elements: 0603892C |  |  |
| Line Item MDAP/MAIS Code: 362   |                                |             |       |  |   |  |  |  |  |  |
| Exhibits Schedule   |                                |             |       |  | Prior Years   | FY 2020                                  | FY 2021                                  | FY 2022 Base                             | FY 2022 OCO                              | FY 2022 Total                            |
| Exhibit Type  | Title*                         | Subexhibits | ID CD | MDAP/MAIS Code                         | Quantity / Total Cost<br>(Each) / (\$ M)                                | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) | Quantity / Total Cost<br>(Each) / (\$ M) |
| P-5   | Aegis BMD Shipsets             | P-5a, P-21  | A     |  | 88 / 436.649  | 36 / 124.150                             | 49 / 104.241                             | 14 / 81.791                              | - / -                                    | 14 / 81.791                              |
| P-40  | Total Gross/Weapon System Cost |             |       |  | 88 / 436.649  | 36 / 124.150                             | 49 / 104.241                             | 14 / 81.791                              | - / -                                    | 14 / 81.791                              |
| *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:**

FY 2022 Base procurement dollars supports the continued procurement and deployment of Aegis BMD capabilities to operational ships and sites. A shipset consists of the procurement of cabinets, cabling, equipment, and other material required to support a single shipboard installation of the appropriate BMD baseline.

Upgrading the 3.6 and 4.0 shipsets to 4.x adds capability and capacity in support of the European Phased Adaptive Approach EPAA Phase II requirements.

Upgrading the 4.x to BL 5.4.0 (BMD 4.1.2) delivers a single AWS maximizing a merger of BMD 4.1 and B/L 5.3 computer programs within the current BMD 4 system architecture. Additional capabilities delivered include Anti-Air Warfare (AAW) improvements, SM-6 Dual I Extended Range AAW/Anti-Surface Warfare (ASUW), interoperability improvements, and updated BMD threat adaptation data.

Upgrading 4.x to BL 5.4.1 (BMD 4.2) is a joint effort with the U.S. Navy that refurbishes existing ship AN/SPY-1 radar arrays with the installation of antenna Low Noise Amplifiers (LNAs). Updates planned for Flight I/II Destroyers (DDG) with increased capability and growth to maintain relevance through End of Service Life. Capabilities delivered include discrimination improvements, increased threat set, and other warfighter improvements. BMD 4.2 procured an Array Set in FY 2020 to support rotatable pool for radar refurbishment. Navy Certification of BL 5.4.1 (BMD 4.2) is planned to occur in FY 2023.

Upgrading the 5.x shipsets adds capability and capacity in support of achieving the European Phased Adaptive Approach EPAA Phase III requirements. Hardware and software updates to 5.x shipsets provides warfighter improvements implemented through Combat System upgrades to meet emerging threats.

The procurement and fielding of new BMD components impacted by Diminishing Manufacturing Sources (DMS) will allow for the continued production of 5.x and BL 5.4.0 (BMD 4.1.2) in support of EPAA Phase II and III requirements.

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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      | Date: May 2021                                     |               |                      |                     |               |                      |               |  |  |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|---------------------|---------------|----------------------|---------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                     |               |                      |                     |               |                      | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |               |                      |                     |               |                      | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |               |                      |                     |               |                      |               |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |                      |   |               |                      | MDAP/MAIS Code:     |               |                      |  |               |                      |                     |               |                      |               |  |  |
| Resource Summary   |                     |               |                      | Prior Years         |               |                      | FY 2020   |               |                      | FY 2021             |               |                      | FY 2022 Base                                       |               |                      | FY 2022 OCO         |               |                      | FY 2022 Total |  |  |
| Procurement Quantity <i>(Units in Each)</i>  |                     |               |                      | 88                  |               |                      | 36  |               |                      | 49                  |               |                      | 14   |               |                      | -                   |               |                      | 14            |  |  |
| Gross/Weapon System Cost <i>(\$ in Millions)</i>   |                     |               |                      | 436.649             |               |                      | 124.150   |               |                      | 104.241             |               |                      | 81.791   |               |                      | -                   |               |                      | 81.791        |  |  |
| Less PY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |                      | 0.000   |               |                      | 0.000               |               |                      | -  |               |                      | -                   |               |                      | -             |  |  |
| Net Procurement (P-1) <i>(\$ in Millions)</i>  |                     |               |                      | 436.649             |               |                      | 124.150   |               |                      | 104.241             |               |                      | 81.791   |               |                      | -                   |               |                      | 81.791        |  |  |
| Plus CY Advance Procurement <i>(\$ in Millions)</i>  |                     |               |                      | 0.000               |               |                      | 0.000   |               |                      | 0.000               |               |                      | -  |               |                      | -                   |               |                      | -             |  |  |
| Total Obligation Authority <i>(\$ in Millions)</i>   |                     |               |                      | 436.649             |               |                      | 124.150   |               |                      | 104.241             |               |                      | 81.791   |               |                      | -                   |               |                      | 81.791        |  |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |  |               |                      |                     |               |                      |               |  |  |
| Initial Spares <i>(\$ in Millions)</i>   |                     |               |                      | -                   |               |                      | -   |               |                      | -                   |               |                      | -  |               |                      | -                   |               |                      | -             |  |  |
| Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>  |                     |               |                      | 4.962               |               |                      | 3.449   |               |                      | 2.127               |               |                      | 5.842  |               |                      | -                   |               |                      | 5.842         |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |  |               |                      |                     |               |                      |               |  |  |
| Cost Elements  | Prior Years         |               |                      | FY 2020             |               |                      | FY 2021   |               |                      | FY 2022 Base        |               |                      | FY 2022 OCO  |               |                      | FY 2022 Total       |               |                      |               |  |  |
|  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)   | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M)                                | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |               |  |  |
| Hardware Cost  |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |  |               |                      |                     |               |                      |               |  |  |
| Recurring Cost   |                     |               |                      |                     |               |                      |   |               |                      |                     |               |                      |  |               |                      |                     |               |                      |               |  |  |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs <sup>(†)</sup>   | 0.650               | 3             | 1.951                | 0.633               | 5             | 3.163                | 0.647   | 5             | 3.235                | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |               |  |  |
| Aegis BL 5.4.0 (BMD 4.1.2) Procurement <sup>(†)</sup>  | 0.167               | 10            | 1.665                | 0.324               | 8             | 2.592                | -   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |               |  |  |
| Aegis BL 5.4.1 (BMD 4.2) Hardware Procurement <sup>(†)</sup>   | -                   | -             | -                    | 51.996              | 1             | 51.996               | 3.719   | 3             | 11.158               | 24.172              | 1             | 24.172               | -  | -             | -                    | 24.172              | 1             | 24.172               |               |  |  |
| Aegis BL 9.C1 (5.0 CU) Installs  | 1.400               | 1             | 1.400                | -                   | -             | -                    | -   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |               |  |  |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs <sup>(†)</sup>  | 1.007               | 14            | 14.094               | 1.163               | 2             | 2.326                | 1.615   | 2             | 3.230                | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |               |  |  |
| Aegis BL 9.C2 (BMD 5.1) BackFit Procurement <sup>(†)</sup>   | 2.194               | 17            | 37.297               | -                   | -             | -                    | -   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |               |  |  |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>   | 1.382               | 6             | 8.294                | 2.190               | 3             | 6.570                | 2.134   | 4             | 8.534                | 1.361               | 2             | 2.722                | -  | -             | -                    | 1.361               | 2             | 2.722                |               |  |  |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements <sup>(†)</sup>   | 4.026               | 8             | 32.209               | 3.871               | 3             | 11.613               | 6.862   | 3             | 20.587               | 6.563               | 3             | 19.689               | -  | -             | -                    | 6.563               | 3             | 19.689               |               |  |  |
| Aegis BMD 3.6 to 4.X Hardware Procurements <sup>(†)</sup>  | 13.655              | 11            | 150.203              | -                   | -             | -                    | -   | -             | -                    | -                   | -             | -                    | -  | -             | -                    | -                   | -             | -                    |               |  |  |

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| Exhibit P-5, Cost Analysis: PB 2022 Missile Defense Agency   |                     |               |                      |                     |               |   |                     |               |                      |                     |               | Date: May 2021                                     |                     |               |                      |                     |               |                      |
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17  |                     |               |                      |                     |               | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |                     |               |                      |                     |               | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |                     |               |                      |                     |               |                      |
| ID Code (A=Service Ready, B=Not Service Ready) : A   |                     |               |                      |                     |               |   |                     |               |                      | MDAP/MAIS Code:     |               |  |                     |               |                      |                     |               |                      |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| Cost Elements  | Prior Years         |               |                      | FY 2020             |               |   | FY 2021             |               |                      | FY 2022 Base        |               |  | FY 2022 OCO         |               |                      | FY 2022 Total       |               |                      |
|  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)  | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M)                               | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) | Unit Cost<br>(\$ M) | Qty<br>(Each) | Total Cost<br>(\$ M) |
| Aegis BMD 3.6 to 4.X Installs <sup>(†)</sup>   | 17.971              | 10            | 179.713              | 23.646              | 1             | 23.646  | 25.119              | 1             | 25.119               | 25.621              | 1             | 25.621   | -                   | -             | -                    | 25.621              | 1             | 25.621               |
| Aegis BMD DMS <sup>(†)</sup>   | -                   | -             | -                    | -                   | -             | -   | 0.326               | 12            | 3.909                | 0.829               | 3             | 2.488  | -                   | -             | -                    | 0.829               | 3             | 2.488                |
| Aegis BMD TI-12H Upgrade Installs <sup>(†)</sup>   | -                   | -             | -                    | -                   | -             | -   | 2.211               | 4             | 8.844                | 3.147               | 1             | 3.147  | -                   | -             | -                    | 3.147               | 1             | 3.147                |
| Aegis BMD TI-12H Upgrade Procurement <sup>(†)</sup>  | 3.312               | 2             | 6.623                | 3.420               | 5             | 17.099  | 3.671               | 3             | 11.014               | 3.081               | 1             | 3.081  | -                   | -             | -                    | 3.081               | 1             | 3.081                |
| Subtotal: Recurring Cost   | -                   | -             | 433.449              | -                   | -             | 119.005   | -                   | -             | 95.630               | -                   | -             | 80.920   | -                   | -             | -                    | -                   | -             | 80.920               |
| Subtotal: Hardware Cost  | -                   | -             | 433.449              | -                   | -             | 119.005   | -                   | -             | 95.630               | -                   | -             | 80.920   | -                   | -             | -                    | -                   | -             | 80.920               |
| Software Cost  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| Recurring Cost   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs <sup>(†)</sup>   | -                   | -             | -                    | 0.643               | 8             | 5.145   | 0.718               | 12            | 8.611                | 0.436               | 2             | 0.871  | -                   | -             | -                    | 0.436               | 2             | 0.871                |
| Aegis BMD 4.0 to 4.X Software Installs   | 0.533               | 6             | 3.200                | -                   | -             | -   | -                   | -             | -                    | -                   | -             | -  | -                   | -             | -                    | -                   | -             | -                    |
| Subtotal: Recurring Cost   | -                   | -             | 3.200                | -                   | -             | 5.145   | -                   | -             | 8.611                | -                   | -             | 0.871  | -                   | -             | -                    | -                   | -             | 0.871                |
| Subtotal: Software Cost  | -                   | -             | 3.200                | -                   | -             | 5.145   | -                   | -             | 8.611                | -                   | -             | 0.871  | -                   | -             | -                    | -                   | -             | 0.871                |
| Gross/Weapon System Cost   | 4.962               | 88            | 436.649              | 3.449               | 36            | 124.150   | 2.127               | 49            | 104.241              | 5.842               | 14            | 81.791   | -                   | -             | -                    | 5.842               | 14            | 81.791               |
| Remarks:   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| All Shipset procurements and installs are in alignment with Navy Ship Fielding Plan as of 8 April 2020.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| Aegis BL 5.4.0 (BMD 4.1.2) delivers a single Aegis Weapon System, maximizing a merger of Aegis BMD 4.1 with U.S. Navy (USN) Aegis Baseline 5.3.11 computer programs along with capturing selected BL 7 and BL 9 capabilities within the current BMD 4 system architecture. Planned update for 21 FLT I/II DDG's and 2 Cruisers (CG).   |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| Upgrading 4.x to BL 5.4.1 (BMD 4.2) is a joint effort with the U.S. Navy that refurbishes existing ship AN/SPY-1 radar arrays with the installation of antenna Low Noise Amplifiers (LNAs). Updates planned for Flight I/II Destroyers (DDG) with increased capability and growth to maintain relevance through End of Service Life. Capabilities delivered include discrimination improvements, increased threat set, and other warfighter improvements. BMD 4.2 procured an Array Set in FY 2020 to support rotatable pool for radar refurbishment. Navy Certification of BL 5.4.1 (BMD 4.2) is planned to occur in FY 2023. |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| The Aegis BL 9.C2 (BMD 5.1) Backfit upgrade installs consists of an Aegis Weapon System, Command/Control/Communication, Kill Assessment (KAS) and Vertical Launching System hardware and associated computer program necessary to upgrade an in-service Aegis BL 9.C1 (BMD 5.0CU) capable ship to BL 9.C2 (BMD 5.1). These unit costs are averaged in the years where there is a mix of ship configurations and will result in unit cost fluctuations year to year.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |
| The Aegis BL 9.C2 (BMD 5.1) Inline procurement/installation upgrades non-BMD capable ships to full Aegis BL 9.C2 (BMD 5.1) capability. Unit costs for Aegis BL 9.C2 (BMD 5.1) Inline Procurements is dependent on specific ship configuration. These unit costs are averaged in the years where there is a mix of ship configurations and will result in unit cost fluctuations year to year.  |                     |               |                      |                     |               |   |                     |               |                      |                     |               |  |                     |               |                      |                     |               |                      |



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| <b>Exhibit P-5, Cost Analysis:</b> PB 2022 Missile Defense Agency  |  | <b>Date:</b> May 2021                                     |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17   | <b>P-1 Line Item Number / Title:</b><br>MD90 / Aegis BMD Hardware and Software | <b>Item Number / Title [DODIC]:</b><br>Aegis BMD Shipsets |
| <b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A  |  | <b>MDAP/MAIS Code:</b>                                    |
| <p>The BMD 3.6 to 4.x install includes a hardware and software upgrade suite that adds capability and capacity in support of all future baseline upgrade deliveries. The installations will be completed after FY 2022.</p> <p>The Aegis BMD Production DMS Procurements allows for the continued production of BMD 5.x and BL 5.4 (BMD 4.1) combat system hardware impacted by production hardware obsolescence, and the installation of this hardware on in-service BMD 5.x and BL 5.4 (BMD 4.1) ships to reduce configuration variance and sustainment complexity.</p> <p>The Aegis BL 9.C2 (BMD 5.1) TI-12H Upgrade Procurement consists of hardware and associated computer program necessary to upgrade existing in-service Aegis BL 9.C2 (BMD 5.1) TI-12 ships to a TI-16 compatible weapon system configuration.</p> <p>The Aegis BL 9.B/C2 (BMD 5.1) Capability Upgrade Installs deliver incremental Common Source Library (CSL) capability upgrades to the BMD 5.1 ships and sites providing increased performance against emergent threats.</p> <p>(†) indicates the presence of a P-5a</p> |  |   |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                                    |   |                  |               |                              |                      | Date: May 2021                                     |                        |                               |                   |
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| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17      |             |      |                                    | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |                  |               |                              |                      | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location            | Method/Type<br>or<br>Funding Vehicle                                    | Location of PCO  | Award<br>Date | Date<br>of First<br>Delivery | Qty<br><i>(Each)</i> | Unit Cost<br><i>(\$ M)</i>                         | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs  |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Jun 2020      | Sep 2020                     | 3                    | 0.650  | N                      |                               | Jun 2019          |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs <sup>(†)</sup>                             |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington DC    | Jun 2020      | Sep 2020                     | 5                    | 0.160  | Y                      |                               | Jun 2019          |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs <sup>(†)</sup>                             |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Nov 2020      | Nov 2021                     | 5                    | 0.647  | Y                      |                               | Feb 2020          |
| Aegis BL 5.4.0 (BMD 4.1.2) Procurement <sup>(†)</sup>                          |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Apr 2019      | Mar 2020                     | 10                   | 0.167  | Y                      |                               | Jan 2018          |
| Aegis BL 5.4.0 (BMD 4.1.2) Procurement <sup>(†)</sup>                          |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Apr 2020      | Sep 2020                     | 8                    | 0.200  | Y                      |                               | Jan 2019          |
| Aegis BL 5.4.1 (BMD 4.2) Hardware Procurement <sup>(†)</sup>                   |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Dec 2019      | Dec 2020                     | 1                    | 51.996   | Y                      |                               | Mar 2019          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs <sup>(†)</sup>                        |             | 2017 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Dahlgren, VA     | Jun 2017      | Oct 2018                     | 3                    | 1.134  | Y                      |                               | Aug 2016          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs <sup>(†)</sup>                        |             | 2018 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Dahlgren, VA     | Nov 2017      | Jun 2018                     | 8                    | 0.710  | Y                      |                               | Feb 2017          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs <sup>(†)</sup>                        |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Dahlgren, VA     | Jun 2019      | Apr 2020                     | 3                    | 0.762  | Y                      |                               | Jun 2018          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs <sup>(†)</sup>                        |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Dahlgren, VA     | Feb 2020      | Jun 2020                     | 2                    | 1.485  | Y                      |                               | Jun 2019          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs <sup>(†)</sup>                        |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Dahlgren, VA     | Jun 2020      | Dec 2020                     | 2                    | 1.615  | Y                      |                               | Dec 2019          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Procurement                                    |             | 2016 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Nov 2015      | Jan 2016                     | 11                   | 2.194  | N                      |                               | Sep 2015          |
| Aegis BL 9.C2 (BMD 5.1) BackFit Procurement <sup>(†)</sup>                     |             | 2017 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2017      | Aug 2018                     | 6                    | 2.533  | Y                      |                               | Jul 2016          |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>                         |             | 2017 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2017      | Aug 2018                     | 1                    | 3.310  | Y                      |                               | Jul 2016          |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>                         |             | 2018 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Jan 2018      | Jan 2019                     | 3                    | 0.450  | Y                      |                               | Jul 2017          |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>                         |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Jan 2019      | Jan 2020                     | 2                    | 0.636  | Y                      |                               | Jul 2018          |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>                         |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Jan 2020      | Jan 2021                     | 3                    | 0.460  | Y                      |                               | Jul 2019          |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>                         |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Nov 2020      | Aug 2022                     | 4                    | 2.134  | Y                      |                               | Jul 2020          |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Missile Defense Agency |             |      |                                    |   |                  |               |                              |               | Date: May 2021                                     |                        |                               |                   |
|--|-------------|------|------------------------------------|---|------------------|---------------|------------------------------|---------------|--|------------------------|-------------------------------|-------------------|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17      |             |      |                                    | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |                  |               |                              |               | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |                        |                               |                   |
| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location            | Method/Type<br>or<br>Funding Vehicle                                    | Location of PCO  | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each) | Unit Cost<br>(\$ M)                                | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs <sup>(†)</sup>                         |             | 2022 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Nov 2021      | Feb 2022                     | 2             | 1.361  | Y                      |                               | Jul 2021          |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements                                    |             | 2016 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | May 2016      | Nov 2017                     | 2             | 4.122  | N                      |                               | Jul 2015          |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements <sup>(†)</sup>                     |             | 2017 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | May 2017      | Nov 2018                     | 1             | 3.913  | Y                      |                               | Jul 2016          |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements <sup>(†)</sup>                     |             | 2018 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2018      | Apr 2019                     | 3             | 3.735  | Y                      |                               | Jul 2017          |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements <sup>(†)</sup>                     |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2019      | Aug 2020                     | 2             | 3.738  | Y                      |                               | Jun 2018          |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements <sup>(†)</sup>                     |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2020      | Aug 2021                     | 3             | 3.871  | Y                      |                               | Jun 2019          |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements <sup>(†)</sup>                     |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Apr 2021      | Jun 2022                     | 3             | 6.862  | N                      |                               | Apr 2020          |
| Aegis BMD 3.6 to 4.X Hardware Procurements                                     |             | 2016 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2016      | Aug 2017                     | 6             | 13.519   | N                      |                               | Jul 2015          |
| Aegis BMD 3.6 to 4.X Hardware Procurements <sup>(†)</sup>                      |             | 2017 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2017      | Aug 2018                     | 1             | 12.100   | Y                      |                               | Jul 2016          |
| Aegis BMD 3.6 to 4.X Hardware Procurements <sup>(†)</sup>                      |             | 2018 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2018      | Aug 2019                     | 3             | 12.100   | Y                      |                               | Jul 2017          |
| Aegis BMD 3.6 to 4.X Hardware Procurements <sup>(†)</sup>                      |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Feb 2019      | Aug 2020                     | 1             | 15.010   | Y                      |                               | Jun 2018          |
| Aegis BMD 3.6 to 4.X Installs  |             | 2016 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Washington, D.C. | Jan 2016      | May 2017                     | 1             | 17.831   | N                      |                               | May 2015          |
| Aegis BMD 3.6 to 4.X Installs <sup>(†)</sup>                                   |             | 2017 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Washington, D.C. | Jan 2017      | Jun 2018                     | 1             | 9.100  | Y                      |                               | May 2016          |
| Aegis BMD 3.6 to 4.X Installs <sup>(†)</sup>                                   |             | 2018 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Washington, D.C. | Feb 2018      | Feb 2019                     | 5             | 7.100  | Y                      |                               | Aug 2016          |
| Aegis BMD 3.6 to 4.X Installs <sup>(†)</sup>                                   |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Washington, D.C. | Nov 2017      | Sep 2019                     | 3             | 18.299   | Y                      |                               | Nov 2017          |
| Aegis BMD 3.6 to 4.X Installs <sup>(†)</sup>                                   |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / CPIF   | Washington, D.C. | Nov 2019      | Jul 2021                     | 1             | 7.500  | Y                      |                               | Nov 2018          |
| Aegis BMD DMS <sup>(†)</sup>   |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Apr 2021      | Jun 2022                     | 12            | 0.326  | N                      |                               | Nov 2020          |
| Aegis BMD TI-12H Upgrade Installs <sup>(†)</sup>                               |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Oct 2020      | Nov 2020                     | 4             | 2.145  | Y                      |                               | Feb 2020          |
| Aegis BMD TI-12H Upgrade Installs <sup>(†)</sup>                               |             | 2022 | Lockheed Martin / Moorestown, N.J. | SS / FFP  | Washington, D.C. | Oct 2021      | Nov 2021                     | 1             | 3.147  | Y                      |                               | Jul 2021          |
| Aegis BMD TI-12H Upgrade Procurement   |             | 2019 | Lockheed Martin / Moorestown, N.J. | SS / FPIF   | Washington, D.C. | Dec 2019      | Aug 2020                     | 2             | 3.311  | N                      |                               | Jul 2019          |

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|---|--|--|--|--|--|--|--|---|--|--|--|--|
| <b>Exhibit P-5a, Procurement History and Planning:</b> PB 2022 Missile Defense Agency |  |  |  |  |  |  |  | <b>Date:</b> May 2021                                     |  |  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17      |  |  |  | <b>P-1 Line Item Number / Title:</b><br>MD90 / Aegis BMD Hardware and Software |  |  |  | <b>Item Number / Title [DODIC]:</b><br>Aegis BMD Shipsets |  |  |  |  |

| Cost Elements  | O<br>C<br>O | FY   | Contractor and Location            | Method/Type<br>or<br>Funding Vehicle | Location of PCO  | Award<br>Date | Date<br>of First<br>Delivery | Qty<br>(Each) | Unit Cost<br>(\$ M) | Specs<br>Avail<br>Now? | Date<br>Revision<br>Available | RFP Issue<br>Date |
|--|-------------|------|------------------------------------|--------------------------------------|------------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| Aegis BMD TI-12H Upgrade Procurement <sup>(†)</sup>                |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / FPIF                            | Washington, D.C. | Feb 2020      | Oct 2020                     | 5             | 3.419               | Y                      |                               | Jun 2019          |
| Aegis BMD TI-12H Upgrade Procurement <sup>(†)</sup>                |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FPIF                            | Washington, D.C. | Feb 2021      | Oct 2021                     | 3             | 3.671               | N                      |                               | Apr 2020          |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs <sup>(†)</sup> |             | 2020 | Lockheed Martin / Moorestown, N.J. | SS / CPIF                            | Dahlgren, VA     | Apr 2020      | Sep 2020                     | 8             | 0.160               | Y                      |                               | Apr 2019          |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs <sup>(†)</sup> |             | 2021 | Lockheed Martin / Moorestown, N.J. | SS / FFP                             | Washington, D.C. | Nov 2020      | Aug 2021                     | 12            | 0.718               | Y                      |                               | Feb 2020          |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs <sup>(†)</sup> |             | 2022 | Lockheed Martin / Moorestown, N.J. | SS / FFP                             | Washington, D.C. | Nov 2021      | Aug 2022                     | 2             | 0.436               | Y                      |                               | Oct 2021          |

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

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             | Date: May 2021                                     |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|---|------------------|------|---------|-------------|---|------------------------------|------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|-------------|-------------|-------------|-----|---|---|---|---|---|---|---|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |   |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
| Cost Elements<br>(Units in Each)  |                  |      |         |             |   |                              | Fiscal Year 2016 |             |             |   |             |             |             |             |             |             | Fiscal Year 2017 |             |             |  |             |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
| O<br>C<br>C<br>O  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEP<br>T<br>P<br>R<br>I<br>O<br>R<br>T<br>O<br>1<br>O<br>C<br>T<br>2<br>0<br>1<br>5 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2016  |             |             |             |             |             |             |                  |             |             | Calendar Year 2017                                 |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y |                                 | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |     |   |   |   |   |   |   |   |   |   |   |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs                                       |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 1                | 2020 | MDA     | 5           | 0   | 5                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 5   |   |   |   |   |   |   |   |   |   |   |
|   | 1                | 2021 | MDA     | 5           | 0   | 5                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 5   |   |   |   |   |   |   |   |   |   |   |
| Aegis BL 5.4.0 (BMD 4.1.2) Procurement                                    |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 2                | 2019 | MDA     | 10          | 0   | 10                           |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 10  |   |   |   |   |   |   |   |   |   |   |
|   | 3                | 2020 | MDA     | 8           | 0   | 8                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 8   |   |   |   |   |   |   |   |   |   |   |
| Aegis BL 5.4.1 (BMD 4.2) Hardware Procurement                             |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 4                | 2020 | MDA     | 1           | 0   | 1                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 1   |   |   |   |   |   |   |   |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs                                  |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 5                | 2017 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | A - | - | - | - | 3 |   |   |   |   |   |   |
|   | 5                | 2018 | MDA     | 8           | 0   | 8                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 8   |   |   |   |   |   |   |   |   |   |   |
|   | 5                | 2019 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
|   | 5                | 2020 | MDA     | 2           | 0   | 2                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 2   |   |   |   |   |   |   |   |   |   |   |
|   | 5                | 2021 | MDA     | 2           | 0   | 2                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 2   |   |   |   |   |   |   |   |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) BackFit Procurement                               |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 6                | 2017 | MDA     | 6           | 0   | 6                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | A - | - | - | - | - | - | - | - | - | - | 6 |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs                                   |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 7                | 2017 | MDA     | 1           | 0   | 1                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | A - | - | - | - | - | - | - | - | - | - | 1 |
|   | 7                | 2018 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
|   | 7                | 2019 | MDA     | 2           | 0   | 2                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 2   |   |   |   |   |   |   |   |   |   |   |
|   | 7                | 2020 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
|   | 7                | 2021 | MDA     | 4           | 0   | 4                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 4   |   |   |   |   |   |   |   |   |   |   |
|   | 7                | 2022 | MDA     | 2           | 0   | 2                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 2   |   |   |   |   |   |   |   |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements                               |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 8                | 2017 | MDA     | 1           | 0   | 1                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | A - | - | - | - | - | - | - | - | - | - | 1 |
|   | 8                | 2018 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
|   | 8                | 2019 | MDA     | 2           | 0   | 2                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 2   |   |   |   |   |   |   |   |   |   |   |
|   | 8                | 2020 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
|   | 8                | 2021 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
| Aegis BMD 3.6 to 4.X Hardware Procurements                                |                  |      |         |             |   |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             |     |   |   |   |   |   |   |   |   |   |   |
|   | 9                | 2017 | MDA     | 1           | 0   | 1                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | A - | - | - | - | - | - | - | - | - | - | 1 |
|   | 9                | 2018 | MDA     | 3           | 0   | 3                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 3   |   |   |   |   |   |   |   |   |   |   |
|   | 9                | 2019 | MDA     | 1           | 0   | 1                            |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |             |             |             |             |             |             |                                 |             |             |             |             | 1   |   |   |   |   |   |   |   |   |   |   |
|   |                  |      |         |             |   |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N                     | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |             |     |   |   |   |   |   |   |   |   |   |   |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency |      |      |         |         |  |                              |                  |     |  |                    |     |     |     |     |     |     |                  |     | Date: May 2021               |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|---|------|------|---------|---------|--|------------------------------|------------------|-----|--|--------------------|-----|-----|-----|-----|-----|-----|------------------|-----|------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity:            |      |      |         |         |  |                              |                  |     | P-1 Line Item Number / Title:          |                    |     |     |     |     |     |     |                  |     | Item Number / Title [DODIC]: |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
| 0300D / 01 / 17   |      |      |         |         |  |                              |                  |     | MD90 / Aegis BMD Hardware and Software |                    |     |     |     |     |     |     |                  |     | Aegis BMD Shipsets           |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
| Cost Elements<br>(Units in Each)                                  |      |      |         |         |  |                              | Fiscal Year 2018 |     |  |                    |     |     |     |     |     |     | Fiscal Year 2019 |     |                              |                    |     |     |     |     |     |     |     |     |     |     | BALANCE |  |  |  |
| OCO   | MFR# | FY   | SERVICE | PROCQTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2017 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |     |  | Calendar Year 2018 |     |     |     |     |     |     |                  |     |                              | Calendar Year 2019 |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   |      |      |         |         |  |                              | OCT              | NOV | DEC                                    | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG              | SEP | OCT                          | NOV                | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |  |  |  |
| Aegis BMD 3.6 to 4.X Installs                                     |      |      |         |         |  |                              |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 10   | 2017 | MDA     | 1       | 0                                      | 1                            | -                | -   | -                                      | -                  | -   | -   | -   | -   | 1   |     |                  |     |                              |                    |     |     |     |     |     |     |     | 0   |     |     |         |  |  |  |
|   | 10   | 2018 | MDA     | 5       | 0                                      | 5                            |                  |     |  |                    | A   | -   | -   | -   | -   | -   | -                | -   | -                            | -                  | 1   | -   | -   | -   | 1   | 1   | 1   | -   | 1   |     |         |  |  |  |
|   | 10   | 2019 | MDA     | 3       | 0                                      | 3                            |                  | A   | -                                      | -                  | -   | -   | -   | -   | -   | -   | -                | -   | -                            | -                  | -   | -   | -   | -   | -   | -   | -   | 3   | 0   |     |         |  |  |  |
|   | 10   | 2020 | MDA     | 1       | 0                                      | 1                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 1   |     |     |         |  |  |  |
| Aegis BMD DMS   |      |      |         |         |  |                              |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 11   | 2021 | MDA     | 12      | 0                                      | 12                           |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 12  |     |     |         |  |  |  |
| Aegis BMD TI-12H Upgrade Installs                                 |      |      |         |         |  |                              |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 12   | 2021 | MDA     | 4       | 0                                      | 4                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 4   |     |     |         |  |  |  |
|   | 12   | 2022 | MDA     | 1       | 0                                      | 1                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 1   |     |     |         |  |  |  |
| Aegis BMD TI-12H Upgrade Procurement                              |      |      |         |         |  |                              |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 13   | 2020 | MDA     | 5       | 0                                      | 5                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 5   |     |     |         |  |  |  |
|   | 13   | 2021 | MDA     | 3       | 0                                      | 3                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 3   |     |     |         |  |  |  |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs               |      |      |         |         |  |                              |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     |     |     |     |         |  |  |  |
|   | 14   | 2020 | MDA     | 8       | 0                                      | 8                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 8   |     |     |         |  |  |  |
|   | 14   | 2021 | MDA     | 12      | 0                                      | 12                           |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 12  |     |     |         |  |  |  |
|   | 14   | 2022 | MDA     | 2       | 0                                      | 2                            |                  |     |  |                    |     |     |     |     |     |     |                  |     |                              |                    |     |     |     |     |     |     |     | 2   |     |     |         |  |  |  |
|   |      |      |         |         |  |                              | OCT              | NOV | DEC                                    | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG              | SEP | OCT                          | NOV                | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |         |  |  |  |



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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     | Date: May 2021 |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|---|-------|------|---------|----------|----------------------------|---------------------|------------------|-----|-----|--|--------------------|-----|-----|-----|-----|-----|------------------|-----|-----|------------------------------|--------------------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|---------|-----|---|---|---|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity:            |       |      |         |          |                            |                     |                  |     |     | P-1 Line Item Number / Title:          |                    |     |     |     |     |     |                  |     |     | Item Number / Title [DODIC]: |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
| 0300D / 01 / 17   |       |      |         |          |                            |                     |                  |     |     | MD90 / Aegis BMD Hardware and Software |                    |     |     |     |     |     |                  |     |     | Aegis BMD Shipsets           |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
| Cost Elements<br>(Units in Each)                                  |       |      |         |          |                            |                     | Fiscal Year 2020 |     |     |  |                    |     |     |     |     |     | Fiscal Year 2021 |     |     |                              |                    |     |                |     |     |     |     |     |     |     | BALANCE |     |   |   |   |   |   |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | OCT              |     | NOV | DEC                                    | Calendar Year 2020 |     |     |     |     |     |                  |     |     |                              | Calendar Year 2021 |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   |       |      |         |          |                            |                     |                  |     |     |  | JAN                | FEB | MAR | APR | MAY | JUN | JUL              | AUG | SEP | OCT                          | NOV                | DEC | JAN            | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |   |   |   |   |   |   |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs                               |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 1     | 2020 | MDA     |          | 5                          | 0                   | 5                |     |     |  |                    |     |     |     |     |     |                  | A   | -   | -                            | -                  | 1   | -              | -   | -   | -   | -   | -   | -   | -   | -       | -   | 4 |   |   | 0 |   |   |
|   | 1     | 2021 | MDA     |          | 5                          | 0                   | 5                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     | A              | -   | -   | -   | -   | -   | -   | -   | -       | -   | - | - | - | - | - | 5 |
| Aegis BL 5.4.0 (BMD 4.1.2) Procurement                            |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 2     | 2019 | MDA     |          | 10                         | 0                   | 10               | -   | -   | -                                      | -                  | -   | 10  |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 3     | 2020 | MDA     |          | 8                          | 0                   | 8                |     |     |  |                    |     |     |     |     |     |                  | A   | -   | -                            | -                  | -   | 8              |     |     |     |     |     |     |     |         |     |   |   |   | 0 |   |   |
| Aegis BL 5.4.1 (BMD 4.2) Hardware Procurement                     |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 4     | 2020 | MDA     |          | 1                          | 0                   | 1                |     |     |  | A                  | -   | -   | -   | -   | -   | -                | -   | -   | -                            | -                  | 1   |                |     |     |     |     |     |     |     |         |     |   |   | 0 |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs                          |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 5     | 2017 | MDA     |          | 3                          | 3                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 5     | 2018 | MDA     |          | 8                          | 8                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 5     | 2019 | MDA     |          | 3                          | 0                   | 3                | -   | -   | -                                      | -                  | -   | -   | 3   |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 5     | 2020 | MDA     |          | 2                          | 0                   | 2                |     |     |  |                    |     | A   | -   | -   | -   | -                | 1   | -   | -                            | -                  | -   | 1              |     |     |     |     |     |     |     |         |     | 0 |   |   |   |   |   |
|   | 5     | 2021 | MDA     |          | 2                          | 0                   | 2                |     |     |  |                    |     |     |     |     |     |                  | A   | -   | -                            | -                  | -   | -              | -   | 2   |     |     |     |     |     |         |     |   |   | 0 |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) BackFit Procurement                       |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 6     | 2017 | MDA     |          | 6                          | 6                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs                           |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 7     | 2017 | MDA     |          | 1                          | 1                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 7     | 2018 | MDA     |          | 3                          | 3                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 7     | 2019 | MDA     |          | 2                          | 0                   | 2                | -   | -   | -                                      | 2                  |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 7     | 2020 | MDA     |          | 3                          | 0                   | 3                |     |     |  | A                  | -   | -   | -   | -   | -   | -                | -   | -   | -                            | -                  | -   | 1              | -   | -   | -   | 1   | -   | -   | -   | 1       | 0   |   |   |   |   |   |   |
|   | 7     | 2021 | MDA     |          | 4                          | 0                   | 4                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     | A              | -   | -   | -   | -   | -   | -   | -   | -       | -   | - | - | - | 4 |   |   |
|   | 7     | 2022 | MDA     |          | 2                          | 0                   | 2                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 2   |     |         |     |   |   |   |   |   |   |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements                       |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 8     | 2017 | MDA     |          | 1                          | 1                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 8     | 2018 | MDA     |          | 3                          | 1                   | 2                | -   | -   | -                                      | 1                  | -   | -   | 1   |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 8     | 2019 | MDA     |          | 2                          | 0                   | 2                | -   | -   | -                                      | -                  | -   | -   | -   | -   | -   | 2                |     |     |                              |                    |     |                |     |     |     |     |     |     | 0   |         |     |   |   |   |   |   |   |
|   | 8     | 2020 | MDA     |          | 3                          | 0                   | 3                |     |     |  |                    |     | A   | -   | -   | -   | -                | -   | -   | -                            | -                  | -   | -              | -   | -   | -   | -   | -   | 3   |     |         | 0   |   |   |   |   |   |   |
|   | 8     | 2021 | MDA     |          | 3                          | 0                   | 3                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     | A   | -   | -   | -       | -   | - | - | - | - | 3 |   |
| Aegis BMD 3.6 to 4.X Hardware Procurements                        |       |      |         |          |                            |                     |                  |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |
|   | 9     | 2017 | MDA     |          | 1                          | 1                   | 0                |     |     |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     | 0   |     |         |     |   |   |   |   |   |   |
|   | 9     | 2018 | MDA     |          | 3                          | 1                   | 2                | -   | 2   |  |                    |     |     |     |     |     |                  |     |     |                              |                    |     |                |     |     |     |     |     |     | 0   |         |     |   |   |   |   |   |   |
|   | 9     | 2019 | MDA     |          | 1                          | 0                   | 1                | -   | -   | -                                      | -                  | -   | -   | -   | -   | 1   |                  |     |     |                              |                    |     |                |     |     |     |     |     |     | 0   |         |     |   |   |   |   |   |   |
|   |       |      |         |          |                            |                     |                  | OCT | NOV | DEC                                    | JAN                | FEB | MAR | APR | MAY | JUN | JUL              | AUG | SEP | OCT                          | NOV                | DEC | JAN            | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |   |   |   |   |   |   |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     | Date: May 2021                                     |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     |                    |     |     | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |     |     |     |     |     |     |                    |     |     | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2020   |     |     |   |     |     |     |     |     |     | Fiscal Year 2021   |     |     |  |     |     |     |     |     |     |     |     |     | BALANCE |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | Calendar Year 2020 |     |     |   |     |     |     |     |     |     | Calendar Year 2021 |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |         | SEP |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Aegis BMD 3.6 to 4.X Installs   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 10    | 2017 | MDA     | 1        | 1                          | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 10    | 2018 | MDA     | 5        | 4                          | 1                   | -                  | 1   |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 10    | 2019 | MDA     | 3        | 3                          | 0                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 10    | 2020 | MDA     | 1        | 0                          | 1                   |                    | A - | -   | -   | -   | -   | -   | -   | -   | -   | -                  | -   | -   | -  | -   | -   | -   | -   | -   | -   | -   | 1   |     | 0       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Aegis BMD DMS   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 11    | 2021 | MDA     | 12       | 0                          | 12                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | 12  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Aegis BMD TI-12H Upgrade Installs   |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 12    | 2021 | MDA     | 4        | 0                          | 4                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     | A -  | 2   | -   | -   | -   | -   | -   | 2   |     |     |         |     |   | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 12    | 2022 | MDA     | 1        | 0                          | 1                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Aegis BMD TI-12H Upgrade Procurement                                      |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 13    | 2020 | MDA     | 5        | 0                          | 5                   |                    |     |     |   | A - | -   | -   | -   | -   | -   | -                  | -   | 5   |  |     |     |     |     |     |     |     |     |     |         |     | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 13    | 2021 | MDA     | 3        | 0                          | 3                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs                       |       |      |         |          |                            |                     |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 14    | 2020 | MDA     | 8        | 0                          | 8                   |                    |     |     |   |     |     | A - | -   | -   | -   | -                  | 8   |     |  |     |     |     |     |     |     |     |     |     |         |     |   | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 14    | 2021 | MDA     | 12       | 0                          | 12                  |                    |     |     |   |     |     |     |     |     |     |                    |     |     | A -  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -       | 12  |   |   | 0 |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 14    | 2022 | MDA     | 2        | 0                          | 2                   |                    |     |     |   |     |     |     |     |     |     |                    |     |     |  |     |     |     |     |     |     |     |     |     |         | 2   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |       |      |         |          |                            |                     | OCT                | NOV | DEC | JAN   | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT | NOV  | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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|---|------------------|------|---------|-------------|--|------------------------------|------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|--|----------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|-------------|-------------|-------------|---|---|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |                  |      |         |             |  |                              |                  |             |             | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |             |             |             |             |             |             |                  |             |             | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
| Cost Elements<br><i>(Units in Each)</i>                                   |                  |      |         |             |  |                              | Fiscal Year 2022 |             |             |   |             |             |             |             |             |             | Fiscal Year 2023 |             |             |  |                |             |             |             |             |             | B<br>A<br>L<br>A<br>N<br>C<br>E |             |             |             |             |   |   |
| O<br>C<br>C<br>#  | M<br>F<br>R<br># | FY   | SERVICE | PROC<br>QTY | ACCEPT<br>PRIOR<br>TO 1<br>OCT<br>2021 | BAL<br>DUE<br>AS OF<br>1 OCT |                  |             |             | Calendar Year 2022  |             |             |             |             |             |             |                  |             |             | Calendar Year 2023                                 |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   |                  |      |         |             |  |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N   | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G      | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V  | D<br>E<br>C    | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y |                                 | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |   |
| Aegis BL 5.4.0 (BMD 4.1.2) Installs                                       |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 1                | 2020 | MDA     |             | 5                                      | 5                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 1                | 2021 | MDA     |             | 5                                      | 0                            | 5                | -           |             | 5   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
| Aegis BL 5.4.0 (BMD 4.1.2) Procurement                                    |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 2                | 2019 | MDA     |             | 10                                     | 10                           | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 3                | 2020 | MDA     |             | 8                                      | 8                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
| Aegis BL 5.4.1 (BMD 4.2) Hardware Procurement                             |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 4                | 2020 | MDA     |             | 1                                      | 1                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
| Aegis BL 9.C2 (BMD 5.1) BackFit Installs                                  |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 5                | 2017 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 5                | 2018 | MDA     |             | 8                                      | 8                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 5                | 2019 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 5                | 2020 | MDA     |             | 2                                      | 2                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 5                | 2021 | MDA     |             | 2                                      | 2                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
| Aegis BL 9.C2 (BMD 5.1) BackFit Procurement                               |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 6                | 2017 | MDA     |             | 6                                      | 6                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
| Aegis BL 9.C2 (BMD 5.1) Inline Installs                                   |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 7                | 2017 | MDA     |             | 1                                      | 1                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 7                | 2018 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 7                | 2019 | MDA     |             | 2                                      | 2                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 7                | 2020 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 7                | 2021 | MDA     |             | 4                                      | 0                            | 4                | -           | -           | -   | -           | -           | -           | -           | -           | -           | 2                | -           | -           | -  | -              | -           | -           | -           | -           | -           | -                               | -           | -           | -           | 2           | 0 |   |
|   | 7                | 2022 | MDA     |             | 2                                      | 0                            | 2                |             | A           | -   | -           | -           | 2           |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             | 0 |   |
| Aegis BL 9.C2 (BMD 5.1) Inline Procurements                               |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 8                | 2017 | MDA     |             | 1                                      | 1                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 8                | 2018 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 8                | 2019 | MDA     |             | 2                                      | 2                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 8                | 2020 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 8                | 2021 | MDA     |             | 3                                      | 0                            | 3                | -           | -           | -   | -           | -           | -           | -           | -           | 3           |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
| Aegis BMD 3.6 to 4.X Hardware Procurements                                |                  |      |         |             |  |                              |                  |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   |   |
|   | 9                | 2017 | MDA     |             | 1                                      | 1                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 9                | 2018 | MDA     |             | 3                                      | 3                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   | 9                | 2019 | MDA     |             | 1                                      | 1                            | 0                |             |             |   |             |             |             |             |             |             |                  |             |             |  |                |             |             |             |             |             |                                 |             |             |             |             |   | 0 |
|   |                  |      |         |             |  |                              |                  | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C   | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L      | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T  | N<br>O<br>V    | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y                     | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |   |   |

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| Exhibit P-21, Production Schedule: PB 2022 Missile Defense Agency         |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     | Date: May 2021                                     |     |     |     |     |     |     |     |         |     |     |     |     |
|---|-------|------|---------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|--|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|
| Appropriation / Budget Activity / Budget Sub Activity:<br>0300D / 01 / 17 |       |      |         |          |                            |                     | P-1 Line Item Number / Title:<br>MD90 / Aegis BMD Hardware and Software |     |     |     |     |     |     |     |     |     |                    |     | Item Number / Title [DODIC]:<br>Aegis BMD Shipsets |     |     |     |     |     |     |     |         |     |     |     |     |
| Cost Elements<br>(Units in Each)  |       |      |         |          |                            |                     | Fiscal Year 2022  |     |     |     |     |     |     |     |     |     | Fiscal Year 2023   |     |  |     |     |     |     |     |     |     | BALANCE |     |     |     |     |
| OCO   | MFR # | FY   | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022  |     |     |     |     |     |     |     |     |     | Calendar Year 2023 |     |  |     |     |     |     |     |     |     |         |     |     |     |     |
|   |       |      |         |          |                            |                     | OCT   | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG                | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY |         | JUN | JUL | AUG | SEP |
| Aegis BMD 3.6 to 4.X Installs   |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     |     |
|   | 10    | 2017 | MDA     | 1        | 1                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 10    | 2018 | MDA     | 5        | 5                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 10    | 2019 | MDA     | 3        | 3                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 10    | 2020 | MDA     | 1        | 1                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
| Aegis BMD DMS   |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     |     |
|   | 11    | 2021 | MDA     | 12       | 0                          | 12                  | -   | -   | -   | -   | -   | -   | -   | -   | 12  |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
| Aegis BMD TI-12H Upgrade Installs   |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     |     |
|   | 12    | 2021 | MDA     | 4        | 4                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 12    | 2022 | MDA     | 1        | 0                          | 1                   | A -   | 1   |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
| Aegis BMD TI-12H Upgrade Procurement                                      |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     |     |
|   | 13    | 2020 | MDA     | 5        | 5                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 13    | 2021 | MDA     | 3        | 0                          | 3                   | 3   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
| Aegis BL 9.B/C2 (BMD 5.1) Software Upgrade Installs                       |       |      |         |          |                            |                     |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     |     |
|   | 14    | 2020 | MDA     | 8        | 8                          | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 14    | 2021 | MDA     | 12       | 12                         | 0                   |   |     |     |     |     |     |     |     |     |     |                    |     |  |     |     |     |     |     |     |     |         |     |     |     | 0   |
|   | 14    | 2022 | MDA     | 2        | 0                          | 2                   |   | A - | -   | -   | -   | -   | -   | -   | -   | -   | 2                  | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN     | JUL | AUG | SEP | 0   |

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|--|--|--|--|--|--|--|--|---|--|--|--|
| <b>Exhibit P-21, Production Schedule:</b> PB 2022 Missile Defense Agency         |  |  |  |  |  |  |  | <b>Date:</b> May 2021                                     |  |  |  |
| <b>Appropriation / Budget Activity / Budget Sub Activity:</b><br>0300D / 01 / 17 |  |  |  | <b>P-1 Line Item Number / Title:</b><br>MD90 / Aegis BMD Hardware and Software |  |  |  | <b>Item Number / Title [DODIC]:</b><br>Aegis BMD Shipsets |  |  |  |

| MFR<br>Ref<br># | Manufacturer<br>Name - Location       | Production Rates (Each / Month) |                |              | Procurement Leadtime (Months) |                    |                      |                      |                       |                    |                      |                      |
|-----------------|---------------------------------------|---------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
|                 |                                       | MSR For 2022                    | 1-8-5 For 2022 | MAX For 2022 | Initial                       |                    |                      |                      | Reorder               |                    |                      |                      |
|                 |                                       |                                 |                |              | ALT<br>Prior to Oct 1         | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 | ALT<br>Prior to Oct 1 | ALT<br>After Oct 1 | Manufacturing<br>PLT | Total<br>After Oct 1 |
| 1               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 6            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 2               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 10           | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 3               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 8            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 4               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 6            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 5               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 8            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 6               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 11           | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 7               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 4            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 8               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 4            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 9               | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 1            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 10              | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 5            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 11              | Lockheed Martin -<br>Moorestown, N.J. |                                 |                | 12           | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 12              | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 4            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 13              | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 5            | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |
| 14              | Lockheed Martin -<br>Moorestown, N.J. | 1                               | 1              | 14           | 0                             | 0                  | 0                    | 0                    | 0                     | 0                  | 0                    | 0                    |

"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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