

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2015 Missile Defense Agency **Date:** March 2014

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 AN/TPY-2 Radars
--	---

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

Line Item MDAP/MAIS Code: 362	Item MDAP/MAIS Code(s):
-------------------------------	-------------------------

Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	3	2	-	-	-	-	-	-	-	-	-	5
Gross/Weapon System Cost (<i>\$ in Millions</i>)	571.276	378.574	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	-	1,228.769
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	571.276	378.574	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	-	1,228.769
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	571.276	378.574	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	-	1,228.769

(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	-	-	-	-	-	-	-	-	-	10.901
Flyaway Unit Cost (<i>\$ in Millions</i>)	373.179	172.768	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	Continuing	Continuing
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	190.425	189.287	-	-	-	-	-	-	-	-	-	245.754

[#] The FY 2015 OCO Request will be submitted at a later date.

Description:

The Army Navy/Transportable Radar Surveillance and Control (AN/TPY-2) radar is an integral component of the Ballistic Missile Defense System (BMDS) layered network of sensors. It is easily transported and can be configured to operate either as 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 BMDS engagement. In forward-based mode, the AN/TPY-2 also provides acquisition and track data via the Ballistic Missile Defense System Command, Control, Battle Management and Communications (C2BMC) 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.

Procurement funding procures five AN/TPY-2 Radars required to complete THAAD Battery acquisitions. "Procurement Quantity" and "Flyaway Unit Cost" above represent radar systems only, but the "Net Procurement" cost above plus the Initial Spares amount includes the costs of all hardware. FY 2013 funding included procurement of two (2) AN/TPY-2 Radars and four (4) additional Prime Power Units (PPUs). The FY 2013 cost for two radars is \$334.634 Million, plus \$10.901 Million for initial spares (depicted on the P-40 for BMDS Radars Initial Spares), bringing the flyaway unit cost for each radar to \$172.768 Million. For FY 2014, funding includes procurement of one Float Cooling Equipment Unit (CEU) to include reliability upgrades, one Float Electronic Equipment Unit (EEU) and critical spares.

The FY 2015 funding includes procurement of long lead Transmit/Receive Integrated Microwave Modules (TRIMMs) for the Float Antenna Equipment Unit (AEU) and one Electronic Equipment Unit (EEU) Modification Kit.

The FY 2016-2019 funding includes procurement of one Float Antenna Equipment Unit (AEU) structure, population of long lead Transmit/Receive Integrated Microwave Modules (TRIMMs) and final delivery, plus the procurement of eight Electronic Equipment Unit (EEU) Modification Kits and four Prime Power Units (PPUs).

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2015 Missile Defense Agency **Date:** March 2014

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 AN/TPY-2 Radars

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

Line Item MDAP/MAIS Code: 362 **Item MDAP/MAIS Code(s):**

Exhibits Schedule		ID CD	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total		
Title*	Exhibits		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)
Item - BMDS AN/TPY-2 Radars	P-5, P-5a, P-21	B	190.425	3	571.276	189.287	2	378.574	-	-	55.800	-	-	48.140	-	-	-	-	-	48.140
Total Gross/Weapon System Cost			190.425	3	571.276	189.287	2	378.574	-	-	55.800	-	-	48.140	-	-	-	-	-	48.140

Exhibits Schedule		ID CD	FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total		
Title*	Exhibits		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)
Item - BMDS AN/TPY-2 Radars	P-5, P-5a, P-21	B	-	-	79.224	-	-	56.951	-	-	6.217	-	-	32.587	-	-	-	245.754	5	1,228.769
Total Gross/Weapon System Cost			-	-	79.224	-	-	56.951	-	-	6.217	-	-	32.587	-	-	-	245.754	5	1,228.769

*For Items, Title represents the Item Number / Title [DODIC].

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

Justification:

FY 2013: Procure two AN/TPY-2 Radars, plus four additional Prime Power Units (PPUs)

FY 2014: Procure one Float Cooling Equipment Unit (CEU) to include reliability upgrades, one Float Electronic Equipment Unit (EEU) and critical spares

FY 2015: Procure long lead Transmit/Receive Integrated Microwave Modules (TRIMMs) for the Float Antenna Equipment Unit (AEU) and one Electronic Equipment Unit (EEU) Modification Kit

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2015 Missile Defense Agency										Date: March 2014			
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17				P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars						Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars			

Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO#	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (Units in Each)	3	2	-	-	-	-	-	-	-	-	-	5
Gross/Weapon System Cost (\$ in Millions)	571.276	378.574	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	-	1,228.769
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	571.276	378.574	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	-	1,228.769
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	571.276	378.574	55.800	48.140	-	48.140	79.224	56.951	6.217	32.587	-	1,228.769

(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)	190.425	189.287	-	-	-	-	-	-	-	-	-	245.754

The FY 2015 OCO Request will be submitted at a later date.

Cost Elements	ID CD	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 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)
Hardware Cost																			
Recurring Cost																			
Antenna Equipment Unit (AEU) ^(†)	B	133.204	3	399.611	126.400	2	252.800	-	-	-	-	-	-	-	-	-	-	-	-
Cooling Equipment Unit (CEU) ^(†)	B	7.126	3	21.378	6.802	2	13.604	-	-	-	-	-	-	-	-	-	-	-	-
Critical Spares ^(†)	B	-	-	-	-	-	-	18.100	1	18.100	-	-	-	-	-	-	-	-	-
Electronic Equipment Unit (EEU) ^(†)	B	21.377	3	64.132	20.220	2	40.440	-	-	-	-	-	-	-	-	-	-	-	-
Electronic Equipment Unit (EEU) Modification Kit ^(†)	B	-	-	-	-	-	-	-	-	-	2.890	1	2.890	-	-	-	2.890	1	2.890
Float Antenna Equipment Unit (AEU) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Float Cooling Equipment Unit (CEU) ^(†)	B	7.136	1	7.136	-	-	-	16.700	1	16.700	-	-	-	-	-	-	-	-	-
Float Electronic Equipment Unit (EEU) ^(†)	B	20.264	1	20.264	-	-	-	21.000	1	21.000	-	-	-	-	-	-	-	-	-
Forward-Based Mode Prime Power Units (PPU) ^(†)	B	-	-	-	10.985	4	43.940	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD11 / BMDS AN/TPY-2 Radars **Item Number / Title [DODIC]:**
- / BMDS AN/TPY-2 Radars

Cost Elements	ID CD	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 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)
Prime Power Unit (PPUs - 2 each radar system) ^(†)	B	14.252	3	42.755	13.895	2	27.790	-	-	-	-	-	-	-	-	-	-	-	-
Transmit/Receive Integrated Microwave Module (TRIMMs) ^(†)	B	-	-	-	-	-	-	-	-	-	45.250	1	45.250	-	-	-	45.250	1	45.250
<i>Subtotal: Recurring Cost</i>		-	-	555.276	-	-	378.574	-	-	55.800	-	-	48.140	-	-	-	-	-	48.140
<i>Subtotal: Hardware Cost</i>		-	-	555.276	-	-	378.574	-	-	55.800	-	-	48.140	-	-	-	-	-	48.140
Support Cost																			
Program Support*		16.000	1	16.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>		-	-	16.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost		190.425	3	571.276	189.287	2	378.574	-	-	55.800	-	-	48.140	-	-	-	-	-	48.140

Cost Elements	ID CD	FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total Cost		
		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)
Hardware Cost																			
Recurring Cost																			
Antenna Equipment Unit (AEU) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130.482	5	652.411
Cooling Equipment Unit (CEU) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.996	5	34.982
Critical Spares ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.100	1	18.100
Electronic Equipment Unit (EEU) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.914	5	104.572
Electronic Equipment Unit (EEU) Modification Kit ^(†)	B	2.962	2	5.924	3.035	2	6.070	3.109	2	6.217	3.184	2	6.367	-	-	-	3.052	9	27.468
Float Antenna Equipment Unit (AEU) ^(†)	B	73.300	1	73.300	-	-	-	-	-	-	-	-	-	-	-	-	73.300	1	73.300
Float Cooling Equipment Unit (CEU) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.918	2	23.836
Float Electronic Equipment Unit (EEU) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.632	2	41.264

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD11 / BMDS AN/TPY-2 Radars **Item Number / Title [DODIC]:** - / BMDS AN/TPY-2 Radars

Cost Elements	ID CD	FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total Cost		
		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)
Forward-Based Mode Prime Power Units (PPU) ^(†)	B	-	-	-	12.720	4	50.881	-	-	-	13.110	2	26.220	-	-	-	12.104	10	121.041
Prime Power Unit (PPUs - 2 each radar system) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.109	5	70.545
Transmit/Receive Integrated Microwave Module (TRIMMs) ^(†)	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.250	1	45.250
<i>Subtotal: Recurring Cost</i>		-	-	79.224	-	-	56.951	-	-	6.217	-	-	32.587	-	-	-	-	-	1,212.769
<i>Subtotal: Hardware Cost</i>		-	-	79.224	-	-	56.951	-	-	6.217	-	-	32.587	-	-	-	-	-	1,212.769
Support Cost																			
Program Support*		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.000
<i>Subtotal: Support Cost</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.000
Gross/Weapon System Cost		-	-	79.224	-	-	56.951	-	-	6.217	-	-	32.587	-	-	-	245.754	5	1,228.769

Remarks:

N/A

(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2015 Missile Defense Agency								Date: March 2014				
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17			P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars					Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Antenna Equipment Unit (AEU) ^(†)		2010	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Jun 2010	Dec 2012	1	144.290	Y		
Antenna Equipment Unit (AEU) ^(†)		2012	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2011	Jun 2014	2	144.090	Y		
Antenna Equipment Unit (AEU) - 1 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2012	Jun 2015	1	126.400	Y		
Antenna Equipment Unit (AEU) - 2 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2013	Jun 2016	1	126.400	Y		
Cooling Equipment Unit (CEU) ^(†)		2010	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Jun 2010	Dec 2012	1	7.800	Y		
Cooling Equipment Unit (CEU) ^(†)		2012	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2011	Jun 2014	2	7.668	Y		
Cooling Equipment Unit (CEU) - 1 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2012	Jun 2015	1	6.802	Y		
Cooling Equipment Unit (CEU) - 2 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2013	Jun 2016	1	6.802	Y		
Critical Spares ^(†)		2014	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Jun 2014	Jun 2015	1	18.100	Y		
Electronic Equipment Unit (EEU) ^(†)		2010	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Jun 2010	Dec 2012	1	23.400	Y		
Electronic Equipment Unit (EEU) ^(†)		2012	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2011	Jun 2014	2	23.000	Y		
Electronic Equipment Unit (EEU) - 1 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2012	Jun 2015	1	20.220	Y		
Electronic Equipment Unit (EEU) - 2 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2013	Jun 2016	1	20.220	Y		
Electronic Equipment Unit (EEU) Modification Kit ^(†)		2015	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2014	Jun 2015	1	2.890	Y		
Electronic Equipment Unit (EEU) Modification Kit ^(†)		2016	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2015	Jun 2016	2	2.962	Y		
Electronic Equipment Unit (EEU) Modification Kit ^(†)		2017	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2016	Jun 2017	2	3.035	Y		
Electronic Equipment Unit (EEU) Modification Kit ^(†)		2018	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2017	Jun 2018	2	3.109	Y		
Electronic Equipment Unit (EEU) Modification Kit ^(†)		2019	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2018	Jun 2019	2	3.184	Y		
Float Antenna Equipment Unit (AEU) ^(†)		2016	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2015	Jun 2018	1	73.300	N		
Float Cooling Equipment Unit (CEU) ^(†)		2012	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2011	Jun 2014	1	7.140	Y		
Float Cooling Equipment Unit (CEU) ^(†)		2014	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Jun 2014	Dec 2016	1	16.700	Y		

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Float Electronic Equipment Unit (EEU) ^(†)		2012	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2011	Jun 2014	1	20.260	Y		
Float Electronic Equipment Unit (EEU) ^(†)		2014	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Jun 2014	Dec 2016	1	21.000	Y		
Forward-Based Mode Prime Power Units (PPU) ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2012	Dec 2014	4	10.985	Y		
Forward-Based Mode Prime Power Units (PPU) ^(†)		2017	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2016	Dec 2018	4	12.720	Y		
Forward-Based Mode Prime Power Units (PPU) ^(†)		2019	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2018	Dec 2020	2	13.110	Y		
Prime Power Unit (PPUs - 2 each radar system) ^(†)		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) ^(†)		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 ^(†)		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 ^(†)		2013	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2013	Jun 2016	1	13.895	Y		
Transmit/Receive Integrated Microwave Module (TRIMMs) ^(†)		2015	Raytheon / Woburn, MA	SS / FFP	MDA, Huntsville, AL	Dec 2014	Jun 2016	1	45.250	Y		

^(†) indicates the presence of a P-21

Remarks:
N/A

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD11 / BMDS AN/TPY-2 Radars **Item Number / Title [DODIC]:** - / BMDS AN/TPY-2 Radars

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2010														Fiscal Year 2011																				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 0 9	BAL D U E O F 1 O C T	Calendar Year 2010														Calendar Year 2011																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L									
Antenna Equipment Unit (AEU)																																								
	1	2010	MDA	1	-	1																																	1	
	1	2012	MDA	2	-	2																																		2
Antenna Equipment Unit (AEU) - 1																																								
	1	2013	MDA	1	-	1																																		1
Antenna Equipment Unit (AEU) - 2																																								
	1	2013	MDA	1	-	1																																		1
Cooling Equipment Unit (CEU)																																								
	2	2010	MDA	1	-	1																																		1
	2	2012	MDA	2	-	2																																		2
Cooling Equipment Unit (CEU) - 1																																								
	2	2013	MDA	1	-	1																																		1
Cooling Equipment Unit (CEU) - 2																																								
	2	2013	MDA	1	-	1																																		1
Critical Spares																																								
	3	2014	MDA	1	-	1																																		1
Electronic Equipment Unit (EEU)																																								
	4	2010	MDA	1	-	1																																		1
	4	2012	MDA	2	-	2																																		2
Electronic Equipment Unit (EEU) - 1																																								
	4	2013	MDA	1	-	1																																		1
Electronic Equipment Unit (EEU) - 2																																								
	4	2013	MDA	1	-	1																																		1
Electronic Equipment Unit (EEU) Modification Kit																																								
	5	2015	MDA	1	-	1																																		1
	5	2016	MDA	2	-	2																																		2
	5	2017	MDA	2	-	2																																		2
	5	2018	MDA	2	-	2																																		2
	5	2019	MDA	2	-	2																																		2
Float Antenna Equipment Unit (AEU)																																								
	6	2016	MDA	1	-	1																																		1
Float Cooling Equipment Unit (CEU)																																								
	7	2012	MDA	1	-	1																																		1

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2012																Fiscal Year 2013																			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 1	BAL D U E A S O F 1 O C T	Calendar Year 2012																Calendar Year 2013																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L								
Antenna Equipment Unit (AEU)																																							
	1	2010	MDA	1	-	1																																-	
	1	2012	MDA	2	-	2																																2	
Antenna Equipment Unit (AEU) - 1																																							
	1	2013	MDA	1	-	1																																1	
Antenna Equipment Unit (AEU) - 2																																							
	1	2013	MDA	1	-	1																																1	
Cooling Equipment Unit (CEU)																																							
	2	2010	MDA	1	-	1																																-	
	2	2012	MDA	2	-	2																																2	
Cooling Equipment Unit (CEU) - 1																																							
	2	2013	MDA	1	-	1																																1	
Cooling Equipment Unit (CEU) - 2																																							
	2	2013	MDA	1	-	1																																1	
Critical Spares																																							
	3	2014	MDA	1	-	1																																1	
Electronic Equipment Unit (EEU)																																							
	4	2010	MDA	1	-	1																																-	
	4	2012	MDA	2	-	2																																2	
Electronic Equipment Unit (EEU) - 1																																							
	4	2013	MDA	1	-	1																																1	
Electronic Equipment Unit (EEU) - 2																																							
	4	2013	MDA	1	-	1																																1	
Electronic Equipment Unit (EEU) Modification Kit																																							
	5	2015	MDA	1	-	1																																1	
	5	2016	MDA	2	-	2																																	2
	5	2017	MDA	2	-	2																																	2
	5	2018	MDA	2	-	2																																	2
	5	2019	MDA	2	-	2																																	2
Float Antenna Equipment Unit (AEU)																																							
	6	2016	MDA	1	-	1																																1	
Float Cooling Equipment Unit (CEU)																																							
	7	2012	MDA	1	-	1																																1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L								

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency	Date: March 2014
--	-------------------------

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

Cost Elements (Units in Each)				Fiscal Year 2014														Fiscal Year 2015														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
Antenna Equipment Unit (AEU)																																
	1	2010	MDA	1	1	-																								-		
	1	2012	MDA	2	-	2	-	-	-	-	-	-	-	-	-	2														-		
Antenna Equipment Unit (AEU) - 1																																
	1	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			-		
Antenna Equipment Unit (AEU) - 2																																
	1	2013	MDA	1	-	1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
Cooling Equipment Unit (CEU)																																
	2	2010	MDA	1	1	-																								-		
	2	2012	MDA	2	-	2	-	-	-	-	-	-	-	-	-	2														-		
Cooling Equipment Unit (CEU) - 1																																
	2	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			-		
Cooling Equipment Unit (CEU) - 2																																
	2	2013	MDA	1	-	1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
Critical Spares																																
	3	2014	MDA	1	-	1																					1			-		
Electronic Equipment Unit (EEU)																																
	4	2010	MDA	1	1	-																								-		
	4	2012	MDA	2	-	2	-	-	-	-	-	-	-	-	-	2														-		
Electronic Equipment Unit (EEU) - 1																																
	4	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			-		
Electronic Equipment Unit (EEU) - 2																																
	4	2013	MDA	1	-	1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
Electronic Equipment Unit (EEU) Modification Kit																																
	5	2015	MDA	1	-	1																					1			-		
	5	2016	MDA	2	-	2																								2		
	5	2017	MDA	2	-	2																								2		
	5	2018	MDA	2	-	2																								2		
	5	2019	MDA	2	-	2																								2		
Float Antenna Equipment Unit (AEU)																																
	6	2016	MDA	1	-	1																								1		
Float Cooling Equipment Unit (CEU)																																
	7	2012	MDA	1	-	1	-	-	-	-	-	-	-	-	1															-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD11 / BMDS AN/TPY-2 Radars **Item Number / Title [DODIC]:** - / BMDS AN/TPY-2 Radars

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2014												Fiscal Year 2015															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 3	BAL D U E A S O F 1 O C T	Calendar Year 2014												Calendar Year 2015												B A L	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
	7	2014	MDA	1	-	1																										1
Float Electronic Equipment Unit (EEU)																																
	8	2012	MDA	1	-	1																										
	8	2014	MDA	1	-	1																										
Forward-Based Mode Prime Power Units (PPU)																																
	9	2013	MDA	4	-	4																										
	9	2017	MDA	4	-	4																										
	9	2019	MDA	2	-	2																										
Prime Power Unit (PPUs - 2 each radar system)																																
	10	2010	MDA	1	-	-																										
	10	2012	MDA	2	-	2																										
Prime Power Unit (PPUs - 2 each radar system) - 1																																
	10	2013	MDA	1	-	1																										
Prime Power Unit (PPUs - 2 each radar system) - 2																																
	10	2013	MDA	1	-	1																										
Transmit/Receive Integrated Microwave Module (TRIMMs)																																
	11	2015	MDA	1	-	1																										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17 **P-1 Line Item Number / Title:** MD11 / BMDS AN/TPY-2 Radars **Item Number / Title [DODIC]:** - / BMDS AN/TPY-2 Radars

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016													Calendar Year 2017											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Antenna Equipment Unit (AEU)																															
	1	2010	MDA	1	1	-																							-		
	1	2012	MDA	2	2	-																							-		
Antenna Equipment Unit (AEU) - 1																															
	1	2013	MDA	1	1	-																							-		
Antenna Equipment Unit (AEU) - 2																															
	1	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cooling Equipment Unit (CEU)																															
	2	2010	MDA	1	1	-																							-		
	2	2012	MDA	2	2	-																							-		
Cooling Equipment Unit (CEU) - 1																															
	2	2013	MDA	1	1	-																							-		
Cooling Equipment Unit (CEU) - 2																															
	2	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Critical Spares																															
	3	2014	MDA	1	1	-																							-		
Electronic Equipment Unit (EEU)																															
	4	2010	MDA	1	1	-																							-		
	4	2012	MDA	2	2	-																							-		
Electronic Equipment Unit (EEU) - 1																															
	4	2013	MDA	1	1	-																							-		
Electronic Equipment Unit (EEU) - 2																															
	4	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Electronic Equipment Unit (EEU) Modification Kit																															
	5	2015	MDA	1	1	-																							-		
	5	2016	MDA	2	-	2																							-		
	5	2017	MDA	2	-	2																							-		
	5	2018	MDA	2	-	2																							2		
	5	2019	MDA	2	-	2																							2		
Float Antenna Equipment Unit (AEU)																															
	6	2016	MDA	1	-	1																							1		
Float Cooling Equipment Unit (CEU)																															
	7	2012	MDA	1	1	-																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016														Fiscal Year 2017																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017												B A L				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
	7	2014	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Float Electronic Equipment Unit (EEU)																																					
	8	2012	MDA	1	1	-																															-
	8	2014	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Forward-Based Mode Prime Power Units (PPU)																																					
	9	2013	MDA	4	3	1																														1	
	9	2017	MDA	4	-	4																														4	
	9	2019	MDA	2	-	2																														2	
Prime Power Unit (PPUs - 2 each radar system)																																					
	10	2010	MDA	1	1	-																														-	
	10	2012	MDA	2	2	-																														-	
Prime Power Unit (PPUs - 2 each radar system) - 1																																					
	10	2013	MDA	1	1	-																														-	
Prime Power Unit (PPUs - 2 each radar system) - 2																																					
	10	2013	MDA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transmit/Receive Integrated Microwave Module (TRIMMs)																																					
	11	2015	MDA	1	-	1																														-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L						

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018													Fiscal Year 2019																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 7	BAL D U E A S O F 1 O C T	Calendar Year 2018													Calendar Year 2019																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L						
Antenna Equipment Unit (AEU)																																					
	1	2010	MDA	1	1	-																															-
	1	2012	MDA	2	2	-																															-
Antenna Equipment Unit (AEU) - 1																																					
	1	2013	MDA	1	1	-																															-
Antenna Equipment Unit (AEU) - 2																																					
	1	2013	MDA	1	1	-																															-
Cooling Equipment Unit (CEU)																																					
	2	2010	MDA	1	1	-																															-
	2	2012	MDA	2	2	-																															-
Cooling Equipment Unit (CEU) - 1																																					
	2	2013	MDA	1	1	-																															-
Cooling Equipment Unit (CEU) - 2																																					
	2	2013	MDA	1	1	-																															-
Critical Spares																																					
	3	2014	MDA	1	1	-																															-
Electronic Equipment Unit (EEU)																																					
	4	2010	MDA	1	1	-																															-
	4	2012	MDA	2	2	-																															-
Electronic Equipment Unit (EEU) - 1																																					
	4	2013	MDA	1	1	-																															-
Electronic Equipment Unit (EEU) - 2																																					
	4	2013	MDA	1	1	-																															-
Electronic Equipment Unit (EEU) Modification Kit																																					
	5	2015	MDA	1	1	-																															-
	5	2016	MDA	2	2	-																															-
	5	2017	MDA	2	2	-																															-
	5	2018	MDA	2	-	2																															-
	5	2019	MDA	2	-	2																															-
Float Antenna Equipment Unit (AEU)																																					
	6	2016	MDA	1	-	1																															-
Float Cooling Equipment Unit (CEU)																																					
	7	2012	MDA	1	1	-																															-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L						

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					
Antenna Equipment Unit (AEU)																																				
	1	2010	MDA	1	1	-																												-		
	1	2012	MDA	2	2	-																												-		
Antenna Equipment Unit (AEU) - 1																																				
	1	2013	MDA	1	1	-																												-		
Antenna Equipment Unit (AEU) - 2																																				
	1	2013	MDA	1	1	-																												-		
Cooling Equipment Unit (CEU)																																				
	2	2010	MDA	1	1	-																												-		
	2	2012	MDA	2	2	-																													-	
Cooling Equipment Unit (CEU) - 1																																				
	2	2013	MDA	1	1	-																													-	
Cooling Equipment Unit (CEU) - 2																																				
	2	2013	MDA	1	1	-																													-	
Critical Spares																																				
	3	2014	MDA	1	1	-																													-	
Electronic Equipment Unit (EEU)																																				
	4	2010	MDA	1	1	-																													-	
	4	2012	MDA	2	2	-																														-
Electronic Equipment Unit (EEU) - 1																																				
	4	2013	MDA	1	1	-																													-	
Electronic Equipment Unit (EEU) - 2																																				
	4	2013	MDA	1	1	-																													-	
Electronic Equipment Unit (EEU) Modification Kit																																				
	5	2015	MDA	1	1	-																													-	
	5	2016	MDA	2	2	-																														-
	5	2017	MDA	2	2	-																														-
	5	2018	MDA	2	2	-																														-
	5	2019	MDA	2	2	-																														-
Float Antenna Equipment Unit (AEU)																																				
	6	2016	MDA	1	1	-																													-	
Float Cooling Equipment Unit (CEU)																																				
	7	2012	MDA	1	1	-																													-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency Date: March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17 P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars

Table with columns: Cost Elements (Units in Each), Fiscal Year 2020, Fiscal Year 2021. Rows include Float Electronic Equipment Unit (EEU), Forward-Based Mode Prime Power Units (PPU), Prime Power Unit (PPUs - 2 each radar system), and Transmit/Receive Integrated Microwave Module (TRIMMs).

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2015 Missile Defense Agency **Date:** March 2014

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 17	P-1 Line Item Number / Title: MD11 / BMDS AN/TPY-2 Radars	Item Number / Title [DODIC]: - / BMDS AN/TPY-2 Radars
--	---	---

MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
2	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
3	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	12	14	-	-	-	-
4	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
5	Raytheon - Woburn, MA	1.00	1.00	3.00	4	2	6	8	-	-	-	-
6	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
7	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
8	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
9	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
10	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	30	32	-	-	-	-
11	Raytheon - Woburn, MA	1.00	1.00	4.00	4	2	19	21	-	-	-	-

The first non-gray cell 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).