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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	14.453	2.921	0.000	0.000	-	0.000	-	-	-	-	-	-
MD51: <i>Pacific Radar (PAC Radar)</i>	14.453	1.366	0.000	0.000	-	0.000	-	-	-	-	-	-
MD40: <i>Program Wide Support</i>	-	1.555	0.000	0.000	-	0.000	-	-	-	-	-	-

Program MDAP/MAIS Code: 362

Note

Due to a shift in Department of Defense (DoD) priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021. Decrease from FY 2020 to FY 2021 reflects this change.

A. Mission Description and Budget Item Justification

The Pacific Discriminating Radar Program Element is comprised of the PAC Radar program, a persistent discrimination sensor for the Missile Defense System (MDS).

Due to a shift in DoD priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021.

B. Program Change Summary (\$ in Millions)

	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	6.711	0.000	0.000	-	0.000
Current President's Budget	2.921	0.000	0.000	-	0.000
Total Adjustments	-3.790	0.000	0.000	-	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-2.316	0.000			
• SBIR/STTR Transfer	-0.132	0.000			
• Missile Defeat and Defense Enhancement	0.000	0.000	0.000	-	0.000
• Other Adjustment	-1.342	0.000	0.000	-	0.000

Change Summary Explanation

Decrease in FY 2020 reflects the Omnibus Above Threshold Reprogramming which transferred \$2.316 million to finance Indian incentive payments and a \$1.342 million realignment to a classified priority.

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)
0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0604673C / <i>Pacific Discriminating Radar</i>

Due to a shift in Department of Defense priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021. Decrease from FY 2020 to FY 2021 reflects this change.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604673C / Pacific Discriminating Radar				Project (Number/Name) MD51 / Pacific Radar (PAC Radar)			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
MD51: Pacific Radar (PAC Radar)	14.453	1.366	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Due to a shift in Department of Defense priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021. Decrease from FY 2020 to FY 2021 reflects this change.

A. Mission Description and Budget Item Justification

The mission of the PAC Radar program office is to define, develop, acquire, field, and sustain the radar as an element of the MDS. It was envisioned to provide persistent tracking, midcourse discrimination, and hit assessment to support the defense of the Homeland against long-range missile threats and defense against regional threats in the U.S. Indo-Pacific Command (USINDOPACOM) area of responsibility.

Due to a shift in Department of Defense priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2020	FY 2021	FY 2022
Title: Pacific Radar (PAC Radar)	1.366	0.000	0.000
Articles:	-	-	-
Description: Due to a shift in Department of Defense priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021.			
Specific and/or unique accomplishments to each FY are as follows:			
FY 2021 Plans: - No funding requested			
FY 2022 Plans: - No funding requested			
FY 2021 to FY 2022 Increase/Decrease Statement: N/A			
Accomplishments/Planned Programs Subtotals	1.366	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>	Project (Number/Name) MD51 / <i>Pacific Radar (PAC Radar)</i>
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C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• 0603884C: <i>Ballistic Missile Defense Sensors</i>	348.356	265.803	224.750	-	224.750	-	-	-	-	-	-
• 0603896C: <i>Ballistic Missile Defense Command and Control, Battle Management & Communication</i>	550.513	645.741	603.448	-	603.448	-	-	-	-	-	-
• 0604672C: <i>Homeland Defense Radar-Hawaii</i>	181.569	133.000	0.000	-	0.000	-	-	-	-	-	-
• 0604873C: <i>Long Range Discrimination Radar (LRDR)</i>	131.135	138.317	133.335	-	133.335	-	-	-	-	-	-
• 0604879C: <i>Ballistic Missile Defense Sensor Test</i>	96.082	64.245	77.428	-	77.428	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

The PAC Radar acquisition strategy was approved in December 2017. The PAC Radar procurement was planned as part of the Multiple-Award Indefinite Delivery Indefinite Quantity (MAIDIQ) contract that would include the full/open competitive award of the Delivery Order for the PAC Radar no later than FY 2023. Due to a shift in Department of Defense priorities, the Department is no longer pursuing the development and fielding of a Pacific Discriminating Radar beginning in FY 2021.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / Pacific Discriminating Radar	Project (Number/Name) MD51 / Pacific Radar (PAC Radar)
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Pacific Radar (PAC Radar) - Civilian/Travel	Allot	MDA : Various	0.474	0.589	Oct 2019	0.000		0.000		-		0.000	0.000	1.063	0.000
Pacific Radar (PAC Radar) - Communications Integration	SS/CPIF	Lockheed Martin : AL	5.618	0.000		0.000		0.000		-		0.000	0.000	5.618	0.000
Pacific Radar (PAC Radar) - Contractor Support Services	Various	Various : Various	2.921	0.527	Oct 2019	0.000		0.000		-		0.000	0.000	3.448	0.000
Pacific Radar (PAC Radar) - FFRDC/UARC	MIPR	GTRI : GA	4.455	0.250	Oct 2019	0.000		0.000		-		0.000	0.000	4.705	0.000
Pacific Radar (PAC Radar) - Site Activation & Studies	C/CPFF	Various : Various	0.985	0.000		0.000		0.000		-		0.000	0.000	0.985	0.000
Subtotal			14.453	1.366		0.000		0.000		-		0.000	0.000	15.819	N/A

Remarks
N/A

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	14.453	1.366	0.000	0.000	-	0.000	0.000	15.819	N/A

Remarks
Award Dates reflect date of first obligation. Additional obligations may incrementally occur throughout the year.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>	Project (Number/Name) MD51 / <i>Pacific Radar (PAC Radar)</i>
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Significant Event Complete ▲	Milestone Decision Complete ★	Element Test Complete ◆	System Level Test Complete ●	Complete Activity ◆
Significant Event Planned △	Milestone Decision Planned ☆	Element Test Planned ◇	System Level Test Planned ○	Planned Activity ◇

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Pacific Radar	◆	◆	◆	◆			

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>	Project (Number/Name) MD51 / <i>Pacific Radar (PAC Radar)</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Pacific Radar	1	2020	4	2020

Note

Based on the OUSD(C) FY 2022 President's Budget Submission Guidance, fiscal years covered in the justification material will include FY 2020 through FY 2022. Planned entries in the R4 may continue past FY 2022, out-years will be addressed in future budget submissions.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Missile Defense Agency										Date: May 2021		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>				Project (Number/Name) MD40 / <i>Program Wide Support</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
MD40: <i>Program Wide Support</i>	-	1.555	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2020, Program Wide Support (PWS) was proportionately reallocated to the Pacific Discriminating Radar program element. PWS is allocated on a pro-rata basis across multiple Agency PE's each fiscal year based on the total Agency budget, and therefore fluctuates per PE by fiscal year.

A. Mission Description and Budget Item Justification

PWS contains non-headquarters management costs in support of MDA functions and activities across the entire MDS. These functions include Government Civilians and Contract Support Services. This effort provides integrity and oversight of the MDS as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes personnel to support global deployments performing deployment site preparation and activation, and provides facility capabilities for MDA Executing Agent locations worldwide. Other MDA wide costs include: physical and technical security; civilian drug testing; audit readiness; the Science, Technology, Engineering, and Mathematics (STEM) program; legal services and settlements; travel and agency training; office, equipment, vehicle, and warehouse leases; utilities and base operations across multiple geographic locations; commercial and ancillary facility services; management of all facility aspects regardless of lifecycle stage; supplies and maintenance; compliance with statutory environmental requirements; data and unified communications support; materiel and readiness and central property management of equipment; Facilities Sustainment, Restoration and Modernization (FSRM) program, (formerly Real Property Maintenance) to keep the Department's inventory of facilities in good working order; and similar operating expenses. PWS is allocated on a pro-rata basis across most Agency PEs and therefore fluctuates per PE by fiscal year based on the total Agency budget in that fiscal year.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2020	FY 2021	FY 2022
Title: Program Wide Support	1.555	0.000	0.000
Articles:	-	-	-
Description: PWS contains non-headquarters management costs in support of MDA functions and activities across the entire MDS. These functions include Government Civilians and Contract Support Services. This effort provides integrity and oversight of the MDS as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes personnel to support global deployments performing deployment site preparation and activation, and provides facility capabilities for MDA Executing Agent locations worldwide. Other MDA wide costs include: physical and technical security; civilian drug testing; audit readiness; the Science, Technology, Engineering, and Mathematics (STEM) program; legal services and settlements; travel and agency training; office, equipment, vehicle, and warehouse leases; utilities and base operations across multiple geographic locations; commercial and ancillary facility services; management of all facility aspects regardless of lifecycle stage; supplies and maintenance; compliance with statutory environmental requirements; data and unified communications support; materiel and readiness and central property management of equipment; Facilities Sustainment, Restoration and Modernization (FSRM) program, (formerly Real Property Maintenance) to keep the Department's inventory of			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Missile Defense Agency	Date: May 2021
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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>	Project (Number/Name) MD40 / <i>Program Wide Support</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022
facilities in good working order; and similar operating expenses. PWS is allocated on a pro-rata basis across most Agency PEs and therefore fluctuates per PE by fiscal year based on the total Agency budget in that fiscal year.			
<i>FY 2021 Plans:</i> N/A			
<i>FY 2022 Plans:</i> N/A			
<i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> N/A			
Accomplishments/Planned Programs Subtotals	1.555	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>	Project (Number/Name) MD40 / <i>Program Wide Support</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Wide Support - Agency Operations and Support Services	C/CPFF	Various : Multi: AL, VA	0.000	1.555	Dec 2019	0.000		0.000		-		0.000	0.000	1.555	0.000
Subtotal			0.000	1.555		0.000		0.000		-		0.000	0.000	1.555	N/A

Remarks
N/A

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	1.555	0.000	0.000	-	0.000	0.000	1.555	N/A

Remarks
Award Date reflects date of first obligation. Additional obligations may incrementally occur throughout the year.

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Missile Defense Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604673C / <i>Pacific Discriminating Radar</i>	Project (Number/Name) MD40 / <i>Program Wide Support</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MD40 Program-Wide Support	1	2020	4	2020

Note

Based on the OUSD(C) FY 2022 President's Budget Submission Guidance, fiscal years covered in the justification material will include FY 2020 through FY 2022. Planned entries in the R4 may continue past FY 2022, out-years will be addressed in future budget submissions.