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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3620F: Research, Development, Test & Evaluation, Space Force I BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 1206448SF I Resilient Missile Warning Missile Tracking - Integrated Ground Segment
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	0.000	505.569	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
657124: Resilient MW/MT	-	0.000	505.569	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY 2025 and beyond, funds in Program Element (PE) 1206448SF (Resilient Missile Warning Missile Tracking - Integrated Ground Segment), Project 657124 (Resilient MW/MT) were transferred to PE 1206446SF (Resilient Missile Warning Missile Tracking - Low Earth Orbit (LEO)), Project 657LEO (Resilient MW/MT - LEO) and to PE 1206447SF (Resilient Missile Warning Missile Tracking - Medium Earth Orbit (MEO)), Project 657MEO (Resilient MW/MT - MEO).

**A. Mission Description and Budget Item Justification**

The United States Space Force (USSF) Space Systems Command (SSC) and Space Development Agency (SDA) are collaborating to deliver Overhead Persistent Infrared (OPIR) capabilities, in concert with Department of Defense (DoD) and Intelligence Community (IC) partners, to support a proliferated space architecture that is resilient by design and capable of operating through contested environments. SSC Resilient Missile Warning/Missile Tracking (MW/MT) - Medium Earth Orbit (MEO) space and ground efforts pivot the Department of the Air Force's (DAF) legacy missile warning force design to a more resilient multi-orbit approach to counter advanced missiles, hypersonic glide vehicles, and fractional orbital bombardment threats. MW/MT - MEO is anchored in Missile Warning and Missile Defense Capability Development Document (CDD) requirements validated by the Joint Requirements Oversight Council (JROC). Constellation resiliency is foundational to the DAF Resilient Missile Warning and Tracking force design, therefore, the OPIR Family of Systems, including MW/MT - MEO, is designed to work cohesively to gain and maintain custody of a spectrum of missile threats.

The MEO program will deploy space assets in multiple epochs to allow for incremental capability delivery and to ensure competition throughout the lifecycle of the program. Resilient MW/MT - MEO will bolster legacy Space Based Infrared Satellite (SBIRS) and Next-Gen OPIR capabilities and will independently satisfy all mission area CDD requirements for both missile warning and tracking by as early as FY 2031.

To support the LEO Space layer specific ground functions, SDA's ground segment provides constellation management, ground-based data processing, dissemination, and management, space-to-ground verification and ground-based interoperability testing, support operations, and other integration activities for the SDA Tracking Layer and integrates it with the Missile Warning/Missile Tracking/Missile Defense (MW/MT/MD) enterprise. As a part of the Proliferated Warfighter Space Architecture (PWSA), the LEO MW/MT/MD ground segment leverages the Tranche 1 (T1) Transport Layer, and T1 Operations and Integration (O&I) Centers to provide MW/MT data to the Warfighter anywhere in the world. The T1 Tracking Layer, awarded in FY 2022, is the minimum viable product proliferated satellite constellation to provide global access for tracking of Hypersonic Glide Vehicles and other advanced missile threats. This program element funds required upgrades to the SDA ground segment in order to provide command and control, mission data processing, low latency data dissemination, support operations, and other ground functions to support the capabilities for T1 and future tranches.

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<b>Appropriation/Budget Activity</b> 3620F: Research, Development, Test & Evaluation, Space Force I BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / Resilient Missile Warning Missile Tracking - Integrated Ground Segment
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Using a Combined Program Office (CPO) construct, SSC, SDA, and the Missile Defense Agency (MDA) are teaming to develop and implement a system-of-systems integration strategy across for MW/MT/MD constellations supporting LEO, MEO, and GEO/Polar orbit regimes. Resilient MW/MT - MEO Epoch 1 is comprised of multiple space and ground lines of effort to include following ground items:

- Develop mission data processing, on contract as of December 2022 and mission unique ground software.
- Perform the operations and integration of the space vehicles into the operations center for command and control at the Tools, Applications, and Processing (TAP) lab. Plan to have operations and integration contract award for MEO no later than 3rd quarter FY 2023.
- Develop command and control software to enable traditional tracking, telemetry, commanding, tipping, and cueing across multiple collection layers. On contract as of December 2022. Additional ground applications (such as the ground resource manager) planned as part of the Operations and Integration contract in Summer 2023.
- Acquire, build, install, test, and operate ground-based antennas for uplink/downlink of commands and mission data. At least two sites and six apertures are required for Epoch 1. On contract as of February 2023.
- Test, assess, and validate sensor performance on the ground and on-orbit to ensure track data is integrated by Program of Record (PoR) data and fusion operational programs such as Future Operationally Resilient Ground Evolution (FORGE) (PE 1206440SF), Ballistic Missile Defense OPIR Architecture, other classified partners and missions, research and development multi-intelligence fusion (PE 1206442SF), and intelligence characterization. SV testing is on contract as of December 2022. Fusion software studies underway with FORGE program as of March 2023. Additional studies planned with Ballistic Missile Defense OPIR Architecture to start in FY 2024.
- Mature integrated digital model: support SSC's role as the mission area integrator, perform resiliency analyses, baseline future requirements, and assess performance against current and new targets. On contract as of May 2021.

The total cost of the Tranche 1 (T1) Tracking Layer Middle Tier of Acquisition effort is \$2,745.400 million, including RDT&E and procurement of prototype units. The T1 Tracking Layer RP program is fully funded across the Future Years Defense Program.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver MW/MT capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 1206392SF and 1206398SF.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	0.000	505.569	560.467	0.000	560.467
Current President's Budget	0.000	505.569	0.000	0.000	0.000
Total Adjustments	0.000	0.000	-560.467	0.000	-560.467
• 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	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-560.467	0.000	-560.467

**Change Summary Explanation**

FY 2025: +\$2.899M; for inflation rates increase

FY 2025: +\$10M; for OPIR Ground Enhancements

FY 2025: +41.260M; to fund MW/MT to Full Operational Capability

FY 2025: -\$239.227M; transfer to PE 1206446SF (Resilient Missile Warning Missile Tracking - Low Earth Orbit (LEO)), Project 657LEO (Resilient MW/MT - LEO) to centralize Missile Warning Missile Tracking activities and improve transparency.

FY 2025: -\$321.1M; transfer to PE 1206447SF (Resilient Missile Warning Missile Tracking - Medium Earth Orbit (MEO)), Project 657MEO (Resilient MW/MT - MEO) to centralize Missile Warning Missile Tracking activities and improve transparency.

**C. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Missile Warning (MW)/ Missile Tracking (MT) Ground Low Earth Orbit (LEO)	0.000	252.785	0.000
<b>Description:</b> Expands the existing Proliferated Warfighter Space Architecture (PWSA) to meet the Command and Control (C2), Mission Data Processing (MDP), Enterprise Integration, and Support Operations requirements for the Tranche 1 (T1) Tracking Layer and Tranche 2 (T2) Tracking Layer. The LEO MW/MT ground segment provides constellation management, ground-based data processing, dissemination, and management, space-to-ground verification and ground-based interoperability testing, support operations, and other integration activities for the SDA T1 Tracking Layer and integrates with the MW/MT/MD enterprise. This			

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 5: System Development &amp; Demonstration (SDD)</i>		<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / <i>Resilient Missile Warning Missile Tracking - Integrated Ground Segment</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
includes the connection of T1 Operations centers with legacy and emerging MW/MT/MD capabilities to disseminate MW/MT/MD data in common message formats for rapid response to advanced missile threat.				
<p><b>FY 2024 Plans:</b> Continue executing the PWSA T1 programs initiated in FY 2022 to complete the LEO MW/MT ground segment required to support launches starting in FY 2025 and capability demonstration starting in FY 2026. Complete a Ground Readiness Review (GRR) to ensure integration with the Operations Centers and prepare for Missile Warning/ Missile Tracking integration. Continue developing the ground segment for T1. Begin planning to expand the T1 ground system to accommodate more satellite vehicles, greater volumes of sensor data, and add fire control sensors to deliver Missile Defense capability in addition to Missile Warning and Tracking in future tranches. This line supports investments in facilities, hardware, network management, Ground Entry Points (GEPs), Optical Ground Terminals (OGT), software development, mission payloads, contract services, and any other integration requirements to support the MW/MT/MD enterprise. These efforts will leverage and expand upon existing Mission Data Processing Applications (MDPAPs) and Joint OPIR Ground initiatives to ensure rapid processing and dissemination to global warfighting community. In addition, this effort will support the planning and execution of performance and integration risk mitigation activities associated with C2 challenges, MDP expansion, and interagency integration. Other activities may include, but are not limited to program office support, studies, technical analysis, experimentation, prototyping, etc.</p> <p><b>FY 2025 Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 decreased due to funding transfer to PE 1206446SF (Resilient Missile Warning Missile Tracking - Low Earth Orbit (LEO)), Project 657LEO (Resilient MW/MT - LEO) to centralize Missile Warning Missile Tracking activities and improve transparency.</p>				
<p><b>Title:</b> Missile Warning (MW)/ Missile Tracking (MT) - Ground - Medium Earth Orbit (MEO)</p> <p><b>Description:</b> The Force Design and AoA laid out the initial framework and funding for the Space Force to aggressively pursue MEO satellites and ground by using spiral development to continue competition, control costs, insert technology when mature, and deliver capability incrementally.</p> <p>To responsively deliver capabilities, this PE will fund continued development of the MEO efforts through two launches in late calendar year 2026 and operations in support of an initial warfighting capability for the combined LEO and MEO ground architecture. Initial Warfighting Capability is comprised of validating through on-orbit measurements the ability for regional tracking, mission management and control, and coordinated regional warning and access. After performance validation is complete, sensors will feed data directly to operational warning and defense systems. The initial warfighting capability will provide</p>		0.000	252.784	0.000

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>sensitivity to detect emerging threats, accurate tracking to contain maneuvering targets, and deliver data within the required latency to close the kill-chain solution.</p> <p><b>FY 2024 Plans:</b> Vendors will work with the chosen MDP and C2 Ops floor centers to integrate their ground architecture solutions in preparation for pre-launch and early orbit testing. GEP contractor will construct and connect dedicated GEPs in Continental United States (CONUS) and Outside Continental United States (OCONUS) locations with an expected completion in time to support Epoch 1 launch and early orbit operations. Expand development for C2 and MDP to meet the initial warfighter capability for sensitivity, accuracy, and latency of the MW/MT MEO space layer. In FY 2024 the TAP lab will begin to be outfitted with, hardware, software, and ground. Investments in FY 2024 will continue for GEP construction, contract services, operations and integration support, and any other general ground infrastructure required to standup an instantiation of the minimum viable ground infrastructure to support Epoch 1 space vehicles. Vendors will begin to incorporate an instantiation of the FORGE MDPAF for MDP and appropriate C2 solutions. Vendors will also leverage and expand upon existing Mission Data Processing Applications and Joint OPIR Ground initiatives to ensure rapid processing and dissemination of Epoch 1 sensor tracks to the global warfighting community. Develop initial integration modelling and simulation test cases and run for early integration testing with fusion and correlation operational warning and tracking systems. Plan and execute performance and integration risk mitigation activities associated with C2 challenges, MDP expansion, and interagency integration. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, experimentation, prototyping, etc.</p> <p><b>FY 2025 Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 decreased due to transfer to PE 1206447SF (Resilient Missile Warning Missile Tracking - Medium Earth Orbit (MEO)), Project 657MEO (Resilient MW/MT - MEO) to centralize Missile Warning Missile Tracking activities and improve transparency.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	505.569	0.000

<b>D. Other Program Funding Summary (\$ in Millions)</b>									<b>Cost To</b>		
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Complete</u>	<u>Total Cost</u>
• SPSF 01 1206447SF: Resilient Missile Warning Missile Tracking - Medium Earth Orbit (MEO)	408.527	538.208	846.349	-	846.349	714.718	1,122.441	1,641.784	1,653.557	Continuing	Continuing

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<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / <i>Resilient Missile Warning Missile Tracking - Integrated Ground Segment</i>
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**D. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 1206442SF: <i>Next Generation OPIR</i>	97.770	-	-	-	-	-	-	-	-	Continuing	Continuing

**Remarks**

**E. Acquisition Strategy**

LEO: SDA will continue execution of contracts competitively awarded in FY 2022 using funds from RDT&E program elements 1206310SDA, 1206410SDA, and 1206446SF. The SDA T1 programs will execute approved acquisition strategies to deliver a LEO proliferated constellation under the Middle Tier of Acquisition prototyping pathway. Additionally, SDA will begin T2 activities during this period, which will include warfighter council approval of acquisition plans, and award of T2 contracts. The T1 Tracking Layer will be the initial capability to support the architecture derived from the Missile Warning and Missile Defense OPIR Enterprise CDD, validated by the Joint Requirements Oversight Council (JROC) in May 2019. T2 will expand on the T1 Tracking Layer with additional satellites and fire control capability to support global coverage in LEO for the MW/MT/MD mission in order to close the kill chain with low latency. The MW/MT/MD - Ground - LEO project will leverage the efforts in all of the SDA T1 programs to provide low latency MW/MT/MD data to the enterprise.

MEO: The Space Force will deliver mission data processing and command and control software development under current contracts that were competitively awarded in FY 2021 under the NG OPIR PE 1206442SF. A contract for the GEPs was awarded via a mission partner Jul 2023, and an Operations and integration contract was awarded in May 2023 under the MWMT PE 1206447SF. Consistent updates to the Command and Control (C2) and Mission Data Processing (MDP) software will be expected and Ground antenna contracts will continue execution led in collaboration with mission partners. The program office is leveraging a competitively awarded operations center and integration contract with General Services Administration (GSA). The program developed an acquisition strategy for all of Epoch 1 scope: vehicles 1-6; additional vehicles to meet performance baseline (at least 3); command and control software; mission data processing software; operations and integration, and at least six ground antennas for command & telemetry. The Epoch 1 requirements are derived from the Missile Warning and Missile Defense OPIR Enterprise CDD, validated by the JROC in May 2019. Epoch 1 serves as the first delivery of capability targeting polar warning and regional tracking coverage with launches in late FY 2026. Future epochs are planned for competitive awards and a follow-on acquisition strategy is still in development. The acquisition strategy for the space and mission-unique ground portions of Epoch 1 were approved by the PEO for Space Sensing in May 2022.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3620F / 5	<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / <i>Resilient Missile Warning Missile Tracking - Integrated Ground Segment</i>	<b>Project (Number/Name)</b> 657124 / <i>Resilient MW/MT</i>
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<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
LEO: MW/MT Ground Low Earth Orbit (LEO)	Various	multiple : multiple	-	-		252.784	Nov 2023	-		-		-	Continuing	Continuing	-
MEO: Ground, Test, and Integration, Vendor 1	Various	Raytheon : El Segundo, CA	-	-		61.004	Dec 2023	-		-		-	Continuing	Continuing	-
MEO: Ground, Test, and Integration, Vendor 2	Various	Millennium : El Segundo, CA	-	-		67.938	Dec 2023	-		-		-	Continuing	Continuing	-
MEO: Ground Entry Point (GEP)	MIPR	Northrop Grumman : Fairfax, VA	-	-		71.000	Jan 2024	-		-		-	Continuing	Continuing	-
MEO: Operations and Integration (O&I)	Various	TBD : TBD	-	-		15.000	Jan 2024	-		-		-	Continuing	Continuing	-
MEO: Data Fusion	Various	TBD : TBD	-	-		21.000	Jan 2024	-		-		-	Continuing	Continuing	-
MEO: Enterprise SE&I	Various	Various : TBD	-	-		2.524	Dec 2023	-		-		-	Continuing	Continuing	-
MEO: Technical Mission Analysis	RO	Aerospace : El Segundo, CA	-	-		1.343	Jan 2024	-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	-		492.593		-		-		-	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
MEO: FFRDC	RO	Aerospace Corp. : El Segundo, CA	-	-		3.245	Jan 2024	-		-		-	Continuing	Continuing	-
MEO: A&AS	Various	Various : Various	-	-		9.731	Nov 2023	-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	-		12.976		-		-		-	Continuing	Continuing	N/A

			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	-	505.569	-	-	-	Continuing	Continuing	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2025 Air Force							<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 3620F / 5			<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / <i>Resilient Missile Warning Missile Tracking - Integrated Ground Segment</i>			<b>Project (Number/Name)</b> 657124 / <i>Resilient MW/MT</i>			

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
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**Remarks**  
 Submitted FY 2024 realignment for PE 1206446SF, Resilient Missile Warning Missile Tracking - Low Earth Orbit (LEO) and to PE 1206447SF, Resilient Missile Warning Missile Tracking - Medium Earth Orbit (MEO).



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3620F / 5	<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / <i>Resilient Missile Warning Missile Tracking - Integrated Ground Segment</i>	<b>Project (Number/Name)</b> 657124 / <i>Resilient MW/MT</i>

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Ground System CDR																												
MEO: Data Fusion																												
GEP testbeds delivered to factories 12-18 months before deploying to ops center																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3620F / 5	<b>R-1 Program Element (Number/Name)</b> PE 1206448SF / <i>Resilient Missile Warning Missile Tracking - Integrated Ground Segment</i>	<b>Project (Number/Name)</b> 657124 / <i>Resilient MW/MT</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>LEO: Resilient Missile Warning/Missile Tracking</i></b>				
Ground infrastructure design, build, integration & trust	1	2024	4	2024
Mission Data Processing design, build, integration & test	1	2024	4	2024
Command & Control design, build, integration & test	1	2024	4	2024
<b><i>MEO: Resilient Missile Warning/Missile Tracking</i></b>				
Mission Data Processing design, build, integration & test	1	2024	4	2024
Command & Control design, build, integration & test	1	2024	4	2024
Initial Operating Capability for Ground Operations	1	2024	4	2024
GEP Contract Support	1	2024	4	2024
Build and deploy GEP test beds to contractor facilities	1	2024	4	2024
MIOC fit up: Ops room fit up, HVAC and power, furnish workstations	1	2024	4	2024
MIOC ground network infrastructure design and construction, hardware installation and checkout	1	2024	4	2024
GEP sites design, development, and integration and test	1	2024	4	2024
GEP site construction	1	2024	4	2024
Ground System CDR	1	2024	3	2024
MEO: Data Fusion	1	2024	4	2024
GEP testbeds delivered to factories 12-18 months before deploying to ops center	1	2024	4	2024