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

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities
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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	-	128.617	75.317	67.187	-	67.187	67.261	67.978	68.721	69.408	0.000	544.489
E25: Mfg Science & Tech	-	87.617	75.317	67.187	-	67.187	67.261	67.978	68.721	69.408	0.000	503.489
EA2: MANTECH INITIATIVES (CA)	-	41.000	-	-	-	-	-	-	-	-	0.000	41.000

A. Mission Description and Budget Item Justification

This Program Element (PE) develops, demonstrates, and transitions manufacturing technologies and processes that enable improvements in producibility and affordability of emerging and enabling components and subsystems of Army ground and air platforms, Soldier systems, weapons systems, air & missile defense systems, as well as sensors and electronics. Initiatives within the PE result in cost savings and reduced risk of transitioning military-unique manufacturing processes into production. Project E25 fosters the transfer of new/improved manufacturing technologies to the industrial base, including manufacturing efforts that have potential for high payoff across the spectrum of Army systems.

Work in this PE is performed by the United States (U.S.) Army laboratories and research centers, U.S. Army Program Executive Offices and Program Management Offices, and U.S. Army depots and arsenals.

The cited work is consistent with the Under Secretary of Defense, Research and Engineering science and technology focus areas and the Army Modernization Strategy.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	132.270	75.317	67.048	-	67.048
Current President's Budget	128.617	75.317	67.187	-	67.187
Total Adjustments	-3.653	0.000	0.139	-	0.139
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-0.516	-	-	-	-
• SBIR/STTR Transfer	-3.137	-	-	-	-
• Adjustments to Budget Years	-	-	0.139	-	0.139

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: EA2: MANTECH INITIATIVES (CA)

FY 2023	FY 2024

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

- Congressional Add: *Liquid Hydrogen Refueling Systems*
- Congressional Add: *N2O5*
- Congressional Add: *Lightweight Transparent Film Armor*
- Congressional Add: *Improved Additive Manufacturing Qualifications Methods for Army Aviation*
- Congressional Add: *Isostatic Pressure Armor*

Congressional Add Subtotals for Project: EA2

Congressional Add Totals for all Projects

	FY 2023	FY 2024
Congressional Add: <i>Liquid Hydrogen Refueling Systems</i>	10.000	-
Congressional Add: <i>N2O5</i>	10.000	-
Congressional Add: <i>Lightweight Transparent Film Armor</i>	5.000	-
Congressional Add: <i>Improved Additive Manufacturing Qualifications Methods for Army Aviation</i>	10.000	-
Congressional Add: <i>Isostatic Pressure Armor</i>	6.000	-
Congressional Add Subtotals for Project: EA2	41.000	-
Congressional Add Totals for all Projects	41.000	-

Change Summary Explanation

Increased funding due to revised economic assumptions.

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities				Project (Number/Name) E25 / Mfg Science & Tech			
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
E25: Mfg Science & Tech	-	87.617	75.317	67.187	-	67.187	67.261	67.978	68.721	69.408	0.000	503.489
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project develops and demonstrates manufacturing technologies and processes that enable improvements in producibility and affordability of emerging and enabling components and subsystems of Army ground and air platforms, Soldier systems, weapons systems, air & missile defense systems, and sensors and electronics. Work is performed to advance the state of the art in manufacturing processing and fabrication techniques for coatings, multifunctional materials, and structural elements for Army specific applications.

The cited work is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Networks and Command, Control, Communications and Intelligence	9.369	21.575	15.339
<p>Description: ManTech efforts focused on an integrated system of hardware, software and infrastructure that is sufficiently mobile, reliable, user-friendly, discreet in signature, expeditionary and appropriate for any environment where the electromagnetic spectrum is denied or degraded. It also focuses on dependable communication or assured position, navigation, and timing; tactical space; navigation warfare; and Cyber operations. Additionally, it covers virtual and immersive Common Operation Environments in support of faster decision making. These efforts support the Army modernization priority for assured positioning, navigation, and timing. Efforts are aligned to programs within the executive offices of Intelligence Electronic Warfare & Sensors and Command Control Communications-Tactical.</p> <p>FY 2024 Plans: Continue to develop and advance manufacturing processes and capabilities supporting command and control systems/subsystems and position, navigation, and timing systems. Specific plans include continued super optical improvement supporting 3rd Gen Dewar; continued support to the Low Chip Scale Atomic Clock; and planned efforts to support the modernization of Silicone Foundry Processes for the production of read out integrated circuits.</p> <p>FY 2025 Plans: Program plans will continue to develop and advance manufacturing processes and capabilities supporting command and control systems/subsystems and position, navigation, and timing systems. Specific plans include continued support to the Low Chip Scale Atomic Clock and initiate efforts to lower production cost and scalability of small SWAP Sensing for Velocimetry for</p>			

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / <i>End Item Industrial Preparedness Activities</i>	Project (Number/Name) E25 / <i>Mfg Science & Tech</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
ground vehicles. Additionally, initiate efforts to support the modernization of silicon foundry processes for the production of next generation sensor read out circuits to improve Warfighter situational awareness. FY 2024 to FY 2025 Increase/Decrease Statement: The decrease in funding is a result of the super optical improvements for 3GEN Dewar transitioning to PM Terrestrial Sensors for Dewar Cooler Bench integration. Funding will shift to ground efforts focused on accelerating the Advanced Materials for Main Battle Tank and soldier for the Low-Cost Flame Resistant textiles.				
Title: Weapon Systems Description: Manufacturing technology efforts focused on current and future comprehensive weapons system platforms which include munitions and formations that improve range, lethality, mobility, precision, target acquisition and force protection capabilities within multi-domain operations. Additionally, these efforts support the Army modernization priorities for long-range precision fires (LRPF) as well as air and missile defense (AMD). LRPF is focused on strategic fires, precision strike missile capabilities, and extended range cannon artillery. AMD includes directed energy systems and interceptors focused on providing maneuverability for short range air defense, and indirect fire protection capabilities. Efforts are aligned to programs within the executive office of Missile and Space, and the joint executive office Armaments & Ammunition. Formerly titled Long Range Precision Fires and Air & Missile Defense. This effort is not new; it has been retitled to better align to both current and future acquisition systems. FY 2024 Plans: Continue to develop and advance manufacturing processes for weapon systems to include long range precision fires resulting in the affordability and producibility of advanced energetics, warheads, propulsion, guidance and navigation technology. Additionally supports air and missile defense capabilities focused on the affordability and producibility of directed energy systems, advanced missiles and seekers, guidance and control, advanced aero structures / propulsion, air defense radar technologies, high energy laser weapons systems, short range air defense, long range munitions, and indirect fire protection capability. Integrated plans are in place for multi-platform cannon tube production optimization meeting program executive office ground combat system's cost, capacity, and fielding goals. FY 2025 Plans: Program plans will continue to develop and advance manufacturing processes for weapon systems to include long range precision fires resulting in the affordability and producibility of advanced energetics, warheads, propulsion, guidance and navigation technology. Additionally, effort will support air and missile defense capabilities focused on the affordability and producibility of directed energy systems, advanced missiles and seekers, guidance and control, advanced aero structures / propulsion, air defense radar technologies, high energy laser weapons systems, short range air defense, long range munitions, and indirect		43.280	28.622	22.478

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / <i>End Item Industrial Preparedness Activities</i>	Project (Number/Name) E25 / <i>Mfg Science & Tech</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>fire protection capability. Integrated plans are in place for multi-platform cannon tube production optimization meeting program executive office ground combat system's cost, capacity, and fielding goals. Initiate efforts focusing on producibility of high power radar components to support Army acquisition performance and cost goals.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The decrease in funding is due to the completion of the improved manufacturing of smooth bore cannon tubes effort which will transition and be implemented for ground applications.</p>				
<p>Title: Ground Systems</p> <p>Description: ManTech efforts focused primarily focused on Army land maneuverability and ground system platforms. These efforts support the Army's ability to gain positions of relative advantage, overmatch the enemy, protect Soldiers from harm, and impose a tempo of event and multiple simultaneous dilemmas on the enemy to overwhelm enemy effectiveness through ground mobility. Additionally, these efforts support the Army's modernization priority for Next Generation Combat Vehicles which integrate other close combat capabilities in manned and unmanned teaming, leveraging semi-autonomous and autonomous platforms in conjunction with improved firepower, protection, mobility and power generation capabilities. The ground portfolio also supports force projection and force protection technologies to enable the Army to realize close combat. Efforts are aligned to programs within the executive offices of Ground Combat Systems; Combat Support & Combat Service Support; and the joint program executive office, Armaments and Ammunition.</p> <p>Formerly titled Next Generation Combat Vehicle. This effort is not new; it has been retitled to better align to both current and future acquisition systems.</p> <p>FY 2024 Plans: Continue to develop and advance manufacturing processes and capabilities supporting ground vehicles that result in dependable technology with an emphasis on providing affordable and timely solutions. Efforts will include advances in digital thread capabilities as well as the advanced processing of high performance materials at lower weights.</p> <p>FY 2025 Plans: Program plans will continue efforts advancing digital thread capabilities and addressing advanced manufacturing processes for high performance / lower weight armor materials.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The increase in funding will be used to increase the scope of Advanced Materials for Main Battle Tank and other ground platforms.</p>		4.971	7.475	9.268
<p>Title: Aviation Systems</p>		16.238	14.275	10.828

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / <i>End Item Industrial Preparedness Activities</i>	Project (Number/Name) E25 / <i>Mfg Science & Tech</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: ManTech efforts focused on Army manned and unmanned aviation platforms to improve maneuverability, range, speed, payload capacity, mission systems, survivability, reliability, and reduced logistical footprint. Additionally, these efforts support the Army Future Vertical Lift modernization priority through manufacturing technologies that provide next generation of vertical lift aircraft for the Army. Efforts are aligned to programs within the program executive office for Aviation.</p> <p>Formerly titled Future Vertical Lift. This effort is not new; it has been retitled to better align to both current and future acquisition systems.</p> <p>FY 2024 Plans: Continue to develop and advance manufacturing processes and capabilities supporting supporting aviation platforms for future attack, reconnaissance and long range assault capabilities, and air launched effects. Efforts will include additive manufacturing efforts supporting leading edges; multi-laser stitching additive manufacturing; and enhance digital thread for aviation systems manufacturing.</p> <p>FY 2025 Plans: Program plans will continue to develop and advance manufacturing processes and capabilities supporting aviation platforms for future attack, reconnaissance and long range assault capabilities, and air launched effects. Continue additive manufacturing efforts supporting leading edges (rotary aircraft advanced blades) production capability.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The decrease in funding reflects a scale down of the multi-laser stitching additive manufacturing and enhanced digital thread for aviation systems efforts, which will transition to PM Advanced Turbine Engines. Funding will shift to support the Automated Explosive Slurry Loading for Initiators effort within the Soldier portfolio.</p>			
<p>Title: Soldier Systems</p> <p>Description: ManTech efforts focused primarily on integrated Soldier and Squad weapon platforms. These efforts provide manufacturing solutions that enhance integrated Soldier capabilities through their equipment, personal sustainment, performance, protection, and communication. Additionally, this effort supports the Soldier Lethality modernization priority. Efforts are aligned to programs within the executive offices of Soldier; Combat Support and Combat Service Support; Chemical Biological Radiological and Nuclear Defense; and the joint program office for armaments and ammunition.</p> <p>Formerly titled Soldier Lethality. This effort is not new; it has been retitled to better align to both current and future acquisition systems.</p> <p>FY 2024 Plans:</p>	13.759	3.370	9.274

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / <i>End Item Industrial Preparedness Activities</i>	Project (Number/Name) E25 / <i>Mfg Science & Tech</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Increase the capability of individual Soldier weapons, provide Soldiers with enhanced capabilities, and increase their protection and ability to respond to emerging situations through advanced manufacturing technology and processes. Efforts will result in greater affordability and producibility with a concentration on next generation squad weapons and ammunition, Soldier borne power, enhanced protective materials and systems, and sensor development. Effort includes continued production processes improvements for superior vision protection; advanced processes for food production; advanced fuze piston actuator production; and advanced transceiver optical module production.</p> <p><i>FY 2025 Plans:</i> Efforts will result in greater affordability and producibility with a concentration on next generation squad weapons and ammunition, Soldier borne power, enhanced protective materials and systems, and sensor development. Efforts include continued production processes improvements for superior vision protection and advanced processes for food production.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The increase in funding will be used to accelerate efforts to improve cost and performance of flame-resistant textiles as well as to automate manufacturing of explosive slurry loading for initiators.</p>			
Accomplishments/Planned Programs Subtotals	87.617	75.317	67.187

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

Remarks
Not applicable for this item.

D. Acquisition Strategy
Not applicable for this item.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities	Project (Number/Name) E25 / Mfg Science & Tech	

Event Name	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
N/A																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities	Project (Number/Name) E25 / Mfg Science & Tech

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
N/A	1	2025	4	2028

Note
N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities				Project (Number/Name) EA2 / MANTECH INITIATIVES (CA)			
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
EA2: MANTECH INITIATIVES (CA)	-	41.000	-	-	-	-	-	-	-	-	0.000	41.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Congressional Interest Item funding provided for ManTech Initiatives.

A. Mission Description and Budget Item Justification

Congressional Interest Item funding provided for ManTech Initiatives.

This effort accelerates manufacturing technology for more affordable electronic warfare, communications and sensors systems components and subsystems to include radio frequency amplifiers, antennas, and focal plane arrays. This effort accelerates and supplements manufacturing technology for more affordable components and subsystems for tactical and combat vehicles and weapon systems. Work focuses benefit from working to develop and scale up the manufacturing process for nano-tungsten carbide powders and high-volume single-crystal tungsten rod manufacturing processes. This effort accelerates and supplements manufacturing technology for more advanced manufacturing and enterprise solutions. Work focuses on accelerating model based manufacturing to specific organic Army facilities and novel ways of applying additive manufacturing and monitoring material powder beds and process controls during additive manufacturing part build for weapon system components.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024
Congressional Add: Liquid Hydrogen Refueling Systems	10.000	-
FY 2023 Accomplishments: Furthers efforts executed under FY22 \$10,000K for liquid hydrogen refueling systems. Used advanced manufacturing and lighter weight materials to fabricate cost-effective high-quality diamond materials for use in cryogenic quantum system payload development, improve integrated liquid hydrogen aircraft and cryogenic quantum system payload performance, and portable liquid hydrogen refueling Ground Support Equipment (GSE) System for Unmanned Aerial Vehicles carrying advanced cryogenic quantum systems payloads at an Army base for flight demonstration. Will characterize the quantum diamond materials using the most advanced Positron Annihilation Spectroscopy. Assembled and tested advanced diamond-based cryogenic quantum system payload. Effort also conducted aircraft and quantum system ground testing and flight test demonstrations of the integrated liquid hydrogen aircraft and cryogenic quantum systems payload to validate advanced manufacturing methods and techniques.		
Congressional Add: N2O5	10.000	-
FY 2023 Accomplishments: Furthers efforts executed under FY22 \$10,000K Program Increase "N2O5" to develop continuous and on demand supply of dinitrogen pentoxide (N2O5) nitration technology for manufacture		

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024
of RDX & HMX. Designed and demonstrated separate pilot scale continuous manufacturing of Hydroxyl-terminated Polybutadiene (HTPB) leveraging previous investment and lessons learned from N2O5 work. Hydroxyl-Terminated Polybutadiene (HTPB) was utilized to coat energetics produced via N2O5 technology for various DoD Propellant (Rocket and Gun) and HE applications. Successful development of this effort impacted the following Army programs of record: 155mm Artillery HE XM1113 Projectile; 155mm Artillery HE XM1210 Projectile; (ERCA)155mm Artillery HE XM1128 Projectile; 155mm HE M982A1 Excalibur Projectile; (ERCA);BLU-111 / Mk 84; BLU-117 B/B; BLU-121 A/B; BLU-122/B; M1061 60mm Mortar; ERCA (Super Charge Propellant).			
Congressional Add: Lightweight Transparent Film Armor FY 2023 Accomplishments: Further efforts executed under FY22 \$4,000K. Setup and continue development of a new transparent film material focusing on resin processing and sheet extrusion to optimize optical, ballistic, and environmental properties. Continued development of new transparent film material for integration into lighter, thinner transparent armor for face shields, visors, and vehicle armor. The transition path for this effort was for PM Soldier Protective Equipment for the Cupola? protective ensemble.		5.000	-
Congressional Add: Improved Additive Manufacturing Qualifications Methods for Army Aviation FY 2023 Accomplishments: This effort developed a statistically-backed, model-based, and data-driven framework will reduce the need for additional fabrications/tests for qualification of separate machines through the validated equivalency structure. Evaluated how data generated by a single additive manufacturing (AM) platform can be transmitted to a separate AM machine to increase qualification efficiency. Developed a statistically-backed, model-based, and data-driven framework will reduce the need for additional fabrications/tests for qualification of separate machines through the validated equivalency structure. New standards will be generated and improve on current standards, which allow a more efficient data sharing and qualification practice with DoD and defense contractors. With the improvement of AM Qualification Methods, standing up AM machines or switching between legacy aircraft components (i.e. UH-60, etc.) or FVL will be more efficient and increase fleet readiness.		10.000	-
Congressional Add: Isostatic Pressure Armor FY 2023 Accomplishments: This effort accelerated the development of advance armor composites with applications to Soldier and Vehicle protection.		6.000	-
Congressional Adds Subtotals		41.000	-

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / <i>End Item Industrial Preparedness Activities</i>	Project (Number/Name) EA2 / <i>MANTECH INITIATIVES (CA)</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army							Date: March 2024						
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities				Project (Number/Name) EA2 / MANTECH INITIATIVES (CA)					

	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
N/A	[REDACTED]																											

	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
N/A																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0708045A / End Item Industrial Preparedness Activities	Project (Number/Name) EA2 / MANTECH INITIATIVES (CA)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
N/A	1	2016	4	2016