

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0708011F Industrial Preparedness
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	65.543	50.186	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
2865 Manufacturing Technology	65.543	50.186	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

Note: In FY 2009 the program will transfer from PE 0708011F, Industrial Preparedness, to Budget Activity 3 in PE 0603680F, Manufacturing Technologies, to better align with the Office of the Secretary of Defense's ManTech PE.

(U) A. Mission Description and Budget Item Justification

This program is mandated by Section 2521, Title 10, United States Code, to create an affordable, world-class industrial base manufacturing capability responsive to the warfighter's needs. The Air Force ManTech major program tenets are: improvement of manufacturing processes and technologies; collaboration with government program offices, industry, and academia; investments in technologies beyond reasonable risk level for industry alone; cost-sharing; multiple system/customer applications; potential for significant return on investment; and customer commitment to implement. To this end, ManTech develops, demonstrates, and transitions advanced manufacturing processes and technologies to reduce costs, improve quality/capability, and shorten cycle times of weapon systems during design, development, production, and sustainment. ManTech projects include efforts that respond to government program office acquisition and sustainment requirements to reduce cost, schedule, cycle time, and risks during transition of technology. Where mature processes are not available, laboratory-developed initial process capabilities are matured and inserted into weapon system programs. ManTech objectives are conducted through partnership with all industry levels, from large prime contractors to small material and parts vendors. Program planning centers on the Aeronautical, Sustainment, Armament/Directed Energy, and Command/Control/Intelligence/Surveillance/Reconnaissance (C2ISR), and Space sectors of the industrial base. Note: In FY 2008, Congress added \$10.6 million for Technical Insertion Demonstration and Evaluation (TIDE) Program (\$1.2 million), High Temperature Laser Sintered Polymeric Material Digital Product Definition (\$2.0 million), Laser Peening for Friction Stir Welded (FSW) Aerospace Structures (\$1.0 million), Prepreg Thickness Variability Reduction Program (\$1.6 million), Production of Nanocomposites for Aerospace Applications (\$1.6 million), Rapid Manufacturing and Repair of Composite Components (\$1.6 million), Reconfigurable Tooling Systems (\$1.6 million). ManTech is in Budget Activity 7, Operational System Development, since it provides support for systems in design, production, and/or operational use. ManTech is part of the Industrial Preparedness Program Element supporting the Defense Planning Guidance and the Air Force Planning Guidance.

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(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	66.122	39.906	40.173
(U) Current PBR/President's Budget	65.543	50.186	
(U) Total Adjustments	-0.579	10.280	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.320	
Congressional Increases		10.600	
Reprogrammings	1.000		
SBIR/STTR Transfer	-1.579		
(U) <u>Significant Program Changes:</u>			
Not Applicable.			

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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
2865 Manufacturing Technology	65.543	50.186	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

Note: In FY 2009 the program will transfer from PE 0708011F, Industrial Preparedness, to Budget Activity 3 in PE 0603680F, Manufacturing Technologies, to better align with the Office of the Secretary of Defense's ManTech PE.

(U) A. Mission Description and Budget Item Justification

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(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) MAJOR THRUST: Pursues affordable and efficient manufacturing investigations for critical, high quality, reliable structural, propulsion, stealth, and electronic components and assemblies required for existing and next generation aircraft.	6.340	4.242	0.000
(U) In FY 2007: Continued high value efforts to verify advantages of flexible manufacturing, commercial/military integration, quality processing, and supplier improvements. Continued development of manufacturing capabilities for more affordable low-observable structures. Continued rapid response productivity improvement efforts with selected high value programs.			
(U) In FY 2008: Continue high value efforts to verify advantages of flexible manufacturing, commercial/military integration, quality processing, and supplier improvements. Continue development of manufacturing capabilities for			

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	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	
<p>(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u></p> <p>more affordable low-observable structures. Develop manufacturing capabilities for advanced propulsion technologies. Continue rapid response productivity improvement efforts with selected high value programs. Conduct manufacturing readiness assessments on critical technologies in lab and acquisition programs to ensure affordable, producible technology transition.</p>				
<p>(U) In FY 2009: Not Applicable.</p>				
<p>(U)</p>				
<p>(U) MAJOR THRUST: Pursues cost-effective repair and manufacturing technologies for affordable sustainment components.</p>	4.635	7.157	0.000	
<p>(U) In FY 2007: Continued cost-effective repair and manufacturing technologies for affordable sustainment of aircraft and turbine engine components. Continued Engine Rotor Life Extension (ERLE) spiral II technical effort to extend the life of critical, high value rotating engine components, which have been in service and scheduled for retirement. Continued rapid response productivity improvement efforts with selected high value programs.</p>				
<p>(U) In FY 2008: Continued cost-effective repair and manufacturing technologies for affordable sustainment of aircraft and turbine engine components. Continued ERLE spiral II technical effort to extend the life of critical, high value rotating engine components, which have been in service and scheduled for retirement. Begin assessments and manufacturing technology development to reduce costs and lead times for hi-value supply chain commodities. Continue rapid response productivity improvement efforts with selected high value programs.</p>				
<p>(U) In FY 2009: Not Applicable.</p>				
<p>(U)</p>				
<p>(U) MAJOR THRUST: Develops efficient and cost-effective manufacturing methods for high performance, high reliability components and materials for advanced tactical missiles, aircraft missile sensors, and directed energy systems.</p>	6.809	3.150	0.000	
<p>(U) In FY 2007: Continued to pursue cost-effective manufacturing methods for high performance, reliable components for next generation miniaturized munitions. Continued Phase 1 Precision Guided Munition (PGM) Components effort for advanced guidance and seekers and directed energy systems.</p>				
<p>(U) In FY 2008: Continue to pursue cost-effective manufacturing methods for high performance, reliable components for next generation munitions. Conduct manufacturing readiness assessments on critical technologies in lab and acquisition programs to ensure affordable, producible technology transition.</p>				
<p>(U) In FY 2009: Not Applicable.</p>				
<p>(U)</p>				
<p>(U) MAJOR THRUST: Addresses critical manufacturing issues for various Command, Control, Intelligence, Surveillance and Reconnaissance (C2ISR) and space platforms.</p>	18.878	25.117	0.000	

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(U) B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) In FY 2007: Continued efforts to address critical electronics manufacturing technologies for various C2ISR and space systems in order to improve affordability and producibility. Continued effort on AESA to enable improved manufacturing processes, reduce integration and test, and reduce production costs for armament, aeronautical, C2ISR, and space users of AESA systems. Continued major multi-year and cross sector effort on Affordable Datalink components to enable improved manufacturing processes, insert lower level test practices prior to subsystem integration, and increase production throughput for high value, high demand ISR datalinks. Continued effort to reduce manufacturing cost of weapon datalink through investments in reduction of touch labor and insertion of automated test processes in addition to subsystem integration efforts at board level. Insertion of power device technologies to achieve unique size, weight, and power requirements necessary for munition applications.			
(U) In FY 2008: Continue efforts to address critical electronics manufacturing technologies for various C2ISR and space systems in order to improve affordability and producibility. Continue effort on AESA to enable improved manufacturing processes, for reduced costs and cycle times and greater production capacity. Continue efforts on Affordable Datalink components to enable improved manufacturing processes for reduced costs and cycle times and increased production throughput. Conduct manufacturing readiness assessments on critical technologies in lab and acquisition programs to ensure affordable, producible technology transition.			
(U) In FY 2009: Not Applicable.			
(U) CONGRESSIONAL ADD: High Temperature, Laser Sintered Polymeric Material Digital Product	0.000	1.989	0.000
(U) In FY 2007: Not Applicable.			
(U) In FY 2008: Conducted Congressionally-directed effort for High Temperature, Laser Sintered Polymeric Material Digital Product.			
(U) In FY 2009: Not Applicable.			
(U) CONGRESSIONAL ADD: Prepreg Thickness Variability Reduction Program	0.000	1.589	0.000
(U) In FY 2007: Not applicable			
(U) In FY 2008: Conducted Congressionally-directed effort for Prepreg Thickness Variability Reduction Program			
(U) In FY 2009: Not applicable			
(U) CONGRESSIONAL ADD: Laser Peening for Friction Stir Welded (FW) Aerospace Structures	0.000	0.983	0.000
(U) In FY 2007: Not Applicable.			
(U) In FY 2008: Conducted Congressionally-directed effort for Laser Peening for Friction Stir Welded (FSW) Aerospace Structures			

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>		<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) In FY 2009: Not Applicable.				
(U) CONGRESSIONAL ADD: Production of Nanocomposites for Aerospace Applications		0.000	1.589	0.000
(U) In FY 2007: Not Applicable.				
(U) In FY 2008: Conducted Congressionally-directed effort for Production of nanocomposites for Aerospace Applications				
(U) In FY 2009: Not Applicable.				
(U) CONGRESSIONAL ADD: Reconfigurable Tooling Systems		0.000	1.589	0.000
(U) FY 2007: Not Applicable.				
(U) FY 2008: Conducted Congressionally-directed effort for Reconfigurable Tooling Systems				
(U) FY 2009: Not Applicable.				
(U) CONGRESSIONAL ADD: Technical Insertion Demonstration and Evaluation (TIDE) Program.		2.918	1.192	0.000
(U) In FY 2007: Completed development of a suite of commercial collaboration supply chain assessment processes/tools for Government and OEM program managers. Deployed into the weapon system supply chain and demonstrated accelerated development/production processes, reduced cycle times and corresponding costs.				
(U) In FY 2008: Conducted Congressionally-drected effort for Technical Insertion Demonstration and Evaluation (TIDE) Program.				
(U) In FY 2009: Not Applicable.				
(U) CONGRESSIONAL ADD: Aerial Multi-Axis Platform.		2.140	0.000	0.000
(U) In FY 2007: Continued demonstration and development of operator controlled de-paint manipulator performing abrasive blasting and hazmat friendly and ergonomically friendly operator interface.				
(U) In FY 2008: Not Applicable.				
(U) In FY 2009: Not Applicable.				
(U) CONGRESSIONAL ADD: Supply Chain Optimization Universal Tool Kit (SCOUT).		1.944	0.000	0.000
(U) In FY 2007: Continued efforts to utilize radio frequency identification technology, lean six sigma practices, and e-commerce to effect improvements in DoD value chain.				
(U) In FY 2008: Not Applicable.				
(U) In FY 2009: Not Applicable.				
(U) CONGRESSIONAL ADD: Wright Brothers Institute (WBI) - Radio Frequency Identification (RFID) Rapid		4.862	0.000	0.000

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	
Adoption Collaboration Initiative.				
(U) In FY 2007: Continued development and application of RFID for stand-off monitoring inventory and shipment of cargo and parts. Developed an electronically coordinated lean manufacturing toolkit and methodical adoption process for using RFID technology by small and medium enterprise (SME) suppliers.				
(U) In FY 2008: Not Applicable.				
(U) In FY 2009: Not Applicable.				
(U)				
(U) CONGRESSIONAL ADD: Ceramic Ballistic Armor for Soldier and Vehicle Protection	0.972	0.000	0.000	
(U) In FY 2007: Demonstrated manufacturing capability for contoured ceramic armor for vehicle and body armor applications, including new conformal body armor and appendage armor designs. Demonstrated manufacturability/process control to consistently produce ballistic ceramic to meet DoD requirements.				
(U) In FY 2008: Not Applicable.				
(U) In FY 2009: Not Applicable.				
(U)				
(U) CONGRESSIONAL ADD: EFG (Edge defined Film-fed Growth) Sapphire Sheets for Large Aperture EO/IR (Electro-Optics/Infrared) Windows	1.944	0.000	0.000	
(U) In FY 2007: Identified/prioritized manufacturing, cost and technology drivers and their associated risks that limit the ability to manufacture large EFG Sapphire Sheets for use as an EO/IR window. Implemented solutions to drivers/risks based on resources available and impact to success of large sheet production.				
(U) In FY 2008: Not Applicable.				
(U) In FY 2009: Not Applicable.				
(U)				
(U) CONGRESSIONAL ADD: F-35 Joint Strike Fighter Composite Engine Case	3.890	0.000	0.000	
(U) In FY 2007: Conducted efforts to reduce the total cycle time for producing an F135 OMC engine duct and reduce the cost of the prepreg used in making an F135 OMC engine duct.				
(U) In FY 2008: Not Applicable.				
(U) In FY 2009: Not Applicable.				
(U)				
(U) CONGRESSIONAL ADD: Improving MANPADS Survivability Coatings	1.166	0.000	0.000	
(U) In FY 2007: Initiated development of advanced manufacturing technologies for improving MANPADS survivability coatings.				
(U) In FY 2008: Not Applicable.				

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(U)	<u>B. Accomplishments/Planned Program (\$ in Millions)</u>				<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>			
(U)	In FY 2009: Not Applicable.									
(U)	CONGRESSIONAL ADD: Laser Penning Fatigue Life Extension Technology for Military Aircraft Landing Gear				1.362	0.000	0.000			
(U)	In FY 2007: Initiated development of application of laser peening fatigue life extension technology for military aircraft landing gear.									
(U)	In FY 2008: Not Applicable.									
(U)	In FY 2009: Not Applicable.									
(U)	CONGRESSIONAL ADD: Rapid Manufacturing and Repair of Composites for High Temp Applications.				1.264	1.589	0.000			
(U)	In FY 2007: Conducted Congressionally-directed effort for Rapid Manufacturing and Repair of Composites for High Temp Applications.									
(U)	In FY 2008: Conduct Congressionally-directed effort for Rapid Manufacturing and Repair of Composites for High Temp Applications.									
(U)	In FY 2009: Not Applicable.									
(U)	CONGRESSIONAL ADD: Reactive Plastic CO2 Absorbent Production Capacity.				1.944	0.000	0.000			
(U)	In FY 2007: Initiated development of advanced manufacturing technologies for reactive plastic CO2 absorbent production capacity.									
(U)	In FY 2008: Not Applicable.									
(U)	In FY 2009: Not Applicable.									
(U)	CONGRESSIONAL ADD: Nanomaterial Advanced Prototyping				4.475	0.000	0.000			
(U)	In FY 2007: Developed prototype process for optimized nanomaterial yield and reduced product variation.									
(U)	In FY 2008: Not Applicable.									
(U)	In FY 2009: Not Applicable.									
(U)	Total Cost				65.543	50.186	0.000			
(U)	<u>C. Other Program Funding Summary (\$ in Millions)</u>									
		<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U)	AF RDT&E									
(U)	Other APPN									

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

Not Applicable.

(U) D. Acquisition Strategy

All major contracts in this Program Element were awarded after full and open competition.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0708011F Industrial Preparedness					2865 Manufacturing Technology			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2007 Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>												
Anteon	Various			0.470						0.000	0.470	
Argonne	Various										0.000	
Bell											0.000	
Boeing	Various									0.000	0.000	
Booz-Allen				0.600							0.600	
Doyle Center for MTech, PA	Various										0.000	
GE	Coop Agmt			1.047						0.000	1.047	
H.N. Burns											0.000	
Harris				2.050							2.050	
Honeywell	Various			1.200						0.000	1.200	
Infoscribe	Various			0.231							0.231	
Killdeer Mountain Manufacturing Inc.											0.000	
L3 Communications				1.800							1.800	
Lockheed Martin	Various									0.000	0.000	
Luna Technologies											0.000	
NASA Glenn											0.000	
Northrop Grumman	Various			4.173						0.000	4.173	
Pratt & Whitney	Tech Int			1.430						0.000	1.430	
	Agr											
Raytheon	Coop Agmt			4.431						0.000	4.431	
Renaissance Service Inc.											0.000	
Rockwell				1.550							1.550	
Rolls Royce				0.160							0.160	
Surmet	Various										0.000	
Tiburon				0.200							0.200	
Univ Dayton Res Inst	Cost Plus			0.851						0.000	0.851	
US Technology	Various										0.000	
UTC	Various			0.700						0.000	0.700	
Wright Brothers Institute				4.981							4.981	
Wyle				0.433							0.433	
Various	Various			39.236	Sep-07	50.186				Continuing	TBD	
Subtotal Product Development			0.000	65.543		50.186		0.000		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
In house support											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
											0.000	

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Subtotal Test & Evaluation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:								
(U) <u>Management</u>							0.000	
Subtotal Management	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:								
(U)							0.000	
Subtotal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:								
(U)							0.000	
Subtotal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:								
(U) Total Cost	0.000	65.543	50.186	0.000		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

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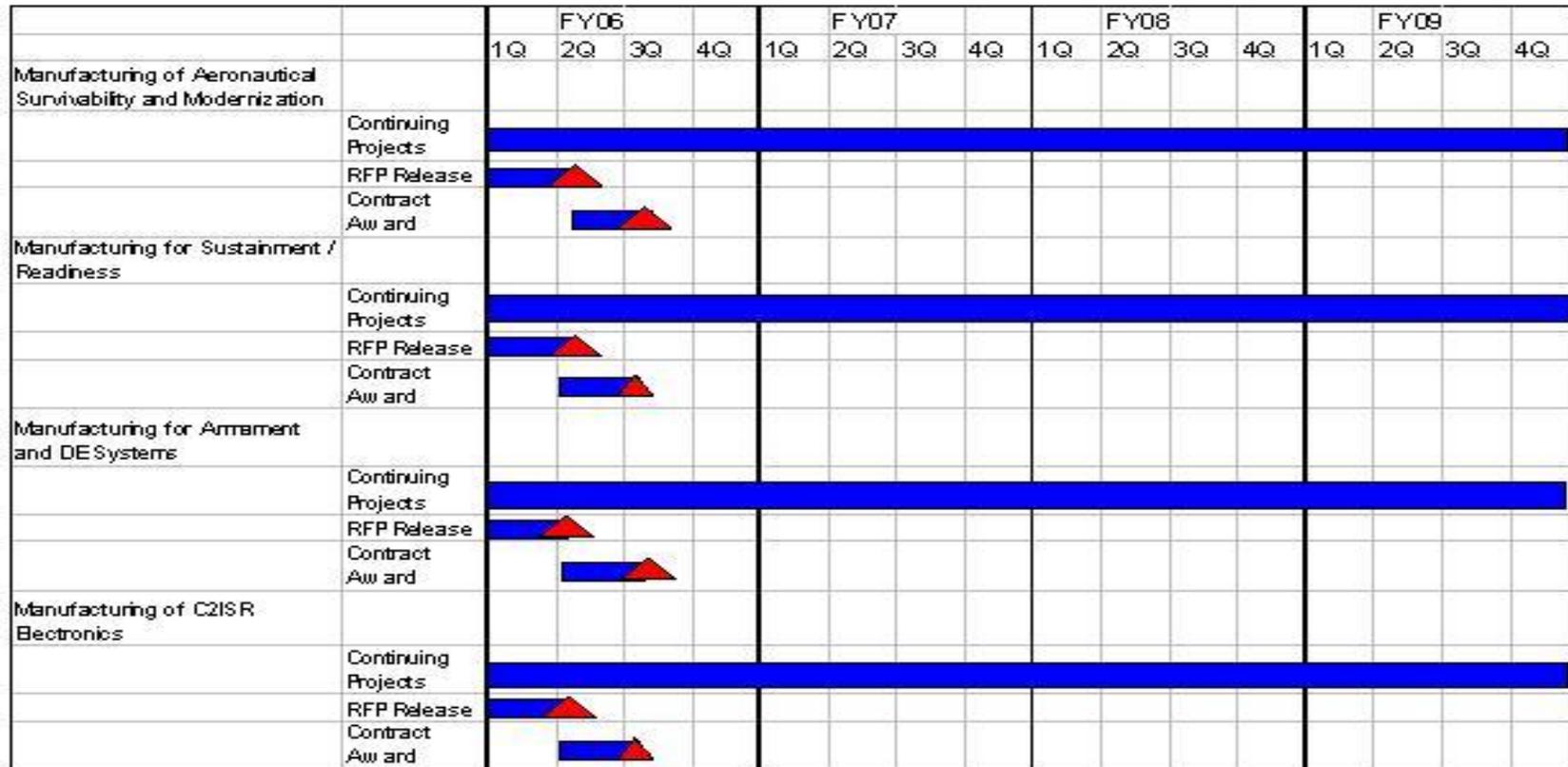
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ManTech Schedule Summary



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Exhibit R-4a, RDT&E Schedule Detail

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(U) <u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Manufacturing Technology for Aeronautical Survivability and Modernization.	1-4Q	1-4Q	1-4Q
(U) Request for Proposal Release	2Q	2Q	2Q
(U) Contract Awards	3Q	3Q	3Q
(U) Manufacturing Technology for Sustainment / Readiness	1-4Q	1-4Q	1-4Q
(U) Request for Proposal Release	1Q	1Q	1Q
(U) Contract Awards	2Q	2Q	2Q
(U) Manufacturing for Armament and Directed Energy Systems.	1-4Q	1-4Q	1-4Q
(U) Request for Proposal Release	1Q	1Q	1Q
(U) Contract Awards	2Q	2Q	2Q
(U) Manufacturing for command, control, intelligence, surveillance, and reconnaissance (C2ISR)	1-4Q	1-4Q	1-4Q
electronics			
(U) Request for Proposal Release	1Q	1Q	1Q
(U) Contract Awards	2Q	2Q	2Q