

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0208021F Information Warfare Support</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	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	14.250	24.649	12.111	12.322	12.601	12.787	14.876	15.182	Continuing	TBD
0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	7.141	16.480	12.111	12.322	12.601	12.787	14.876	15.182	Continuing	TBD
4871 Information Operations Technology	7.109	8.169	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

Funding for the Information Operations Planning Capability Joint (IOPC-J) BPAC 674871 transferred to JFCOM's PE 33166D beginning in FY08.

FY08 - 13 funding decrease in BPAC 670374 as a result of alignment and correction of IW Support to JFCOM's PE 33166D.

**(U) A. Mission Description and Budget Item Justification**

This Program Element funds research and development of information operations (IO), electronic support, and intelligence capabilities required to execute counterspace and information operations in support of combatant commanders. As directed by SECAF and approved by OSD, programs that are supported include the Information Operations Planning Capability-Joint (IOPC-J), the Information Warfare Planning Capability (IWPC), the Counter Communications System (CCS) and the Rapid Attack Identification Detection and Reporting System (RAIDRS), and Counter Space Electronic Support.

IWPC is a full-spectrum, offensive and defensive, planning capability. IWPC is an Air and Space Operations Center (AOC) weapon system component which will enable operators to develop IO strategic courses of action for the Joint Forces Air Component Commander (JFACC) and nominate IO "targets" for inclusion into the Master Air Attack Plan and the Joint Integrated Prioritized Target List (JIPTL). AF specific AOC planning functions may continue under requirements being explored by ACC and the C2ISR center during JEFX-08 that will include kinetic and IO effects.

CCS provides ground-based deployable capabilities for denying satellite communications to our adversaries.

RAIDRS provides a family of ground-based systems that rapidly detect, locate, characterize, identify and report attacks against DoD-used space assets.

The Counterspace effort will provide Electronic Support (ES) for key find, fix, track, target, engage, and assess (F2T2EA) requirements supporting counterspace activities and also performs developmental intelligence collection to support new capability acquisition and development. This project funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats. It also supports phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development and vulnerability/susceptibility assessments to support tactics, techniques and procedures (TTP) development, and future threat technology studies necessary for mission area success and achievement of space superiority.

This PE funds development of and continued research to identify existing military and commercial efforts which can satisfy unfulfilled operational requirements for

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an IO planning and integration tool.

This program is in Budget Activity 7, Operational System Development, because it studies, develops, and fields IO tools.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	14.972	24.758	26.498	26.944
(U) Current PBR/President's Budget	14.250	24.649	12.111	12.322
(U) Total Adjustments	-0.722	-0.109		
(U) Congressional Program Reductions		-0.016		
Congressional Rescissions		-0.093		
Congressional Increases				
Reprogrammings	-0.305			
SBIR/STTR Transfer	-0.417			

(U) **Significant Program Changes:**

In FY07 the program received additional funding as a SECAF directed, effort to provide required electronic support and intelligence capabilities in support of counterspace operations.

Funding decreased in FY08 - 13 as a result of the Information Operations Planning Capability Joint (IOPC-J) BPAC 674871 transfer to JFCOM's PE 33166D beginning in FY08.

FY08 - 13 funding decrease in BPAC 670374 as a result of alignment and correction of IW Support to JFCOM's PE 33166D.

## Exhibit R-2a, RDT&amp;E Project Justification

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BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE		
07 Operational System Development		0208021F Information Warfare Support						0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	7.141	16.480	12.111	12.322	12.601	12.787	14.876	15.182	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

FY08 - 13 funding decrease in BPAC 670374 as a result of alignment and correction of IW Support to JFCOM's PE 33166D.

(U) **A. Mission Description and Budget Item Justification**

The Information Warfare Planning Capability (IWPC) is a full-spectrum, offensive and defensive, planning capability. IWPC is an Air and Space Operations Center (AOC) weapon system component which will enable operators to develop IO strategic and kinetic courses of action for the Joint Forces Air Component Commander (JFACC) and nominate IO "targets" for inclusion into the Master Air Attack Plan and the Joint Integrated Prioritized Target List (JIPTL).

This project funds the development of an evolving suite of interoperable IO planning and decision support capabilities comprised of, software, hardware, and communications products. This project will identify and implement an open, scalable system architecture that will accommodate the expansive growth in the IO mission area. The project builds functional software modules that are designed to be interoperable with baseline C2 systems such as the Theater Battle Management Control System (TBMCS) and other AOC tools. IWPC will participate in the Joint Expeditionary Force Experiment (JEFX) as part of the overall IWPC software development and integration effort into the AOC. In anticipation of a future joint spiral, IWPC 4.0 plus the Information Operations Navigator tool (ION) was installed at AF and other critical DoD sites for evaluation and trial of what could become a joint planning tool. This was done using FY06-07 funds from OSD.

IWPC will complete development, testing and fielding in FY07-FY08 concluding with version 4.2. Following final acceptance, AF sites will receive a technical refresh of all previously fielded versions of software to version 4.2. Combatant Command (COCOM) IWPC sites will utilize FY07 funds provided by OSD to upgrade to version 4.2. Until agreements are finalized with JFCOM only AF sites will be sustained after FY-07. The sustainment of IWPC will be done under a new O&M contract.

The Counterspace effort will provide Electronic Support (ES) for key find, fix, track, target, engage, and assess (F2T2EA) requirements supporting counterspace activities and also performs developmental intelligence collection to support new capability acquisition and development. This project funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats. It also supports phased threat system analysis and studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for system development and vulnerability/susceptibility assessments to support tactics, techniques and procedures (TTP) development, and future threat technology studies necessary for mission area success and achievement of space superiority.

This project is in Budget Activity 7, Operational System Development, because it studies, develops, and demonstrates IO prototypes. It identifies existing military and commercial research and development efforts which can satisfy unfulfilled operational requirements for an IO planning and integration tool.

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**Exhibit R-2a, RDT&E Project Justification**

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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0208021F Information Warfare Support</b>	<b>PROJECT NUMBER AND TITLE</b> <b>0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</b>
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<b>(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) IWPC Software Development and Integration	2.291	0.178	0.000	2.199
(U) AOC Integration	2.274	4.198	0.188	0.190
(U) IWPC Software Testing and Evaluation	0.541	0.560	0.000	0.000
(U) JEFX System integration	2.035	2.080	2.173	0.000
(U) Counterspace Electronic Support/Intelligence	0.000	9.464	9.750	9.933
(U) Total Cost	7.141	16.480	12.111	12.322

<b>(U) <u>C. Other Program Funding Summary (\$ in Millions)</u></b>	<u>FY 2006</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 Complete</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>								
(U) IWPC Operations & Maintenance, AF (3400) PE 28021	1.210	1.154	0.885	0.900	0.900	0.900	0.900	0.900	Continuing	TBD
(U) Counterspace Electronic Support and Intelligence Operations and Maintenance (3400) PE 28021F	0.000	12.330	12.603	12.739	12.954	13.173			Continuing	TBD

**(U) D. Acquisition Strategy**  
These efforts will use an evolutionary acquisition strategy using contracts awarded after full and open competition.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0208021F Information Warfare Support</b>	<b>PROJECT NUMBER AND TITLE</b> <b>0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</b>
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u> JEFX - Various	Various	Lackland AFB TX/Moutain View CA		0.000	Oct-05	0.000	Oct-06	2.173	Oct-07	0.000	Oct-08	Continuing	TBD	TBD
Information Technologies Support Program II (ITSP II)	Various	Lackland AFB TX		0.679	Oct-05	0.679	Oct-06	0.000	Oct-07	0.000	Oct-08	Continuing	TBD	TBD
IWPC	Various	General Dynamics, Lackland AFB TX/Moutain View CA		5.199	Oct-05	4.909	Oct-06	0.188	Oct-07	2.389	Oct-08	Continuing	TBD	TBD
IWPC bridge development	T&M	MITRE, Lackland AFB TX		0.394	Oct-05	0.415	Oct-06	0.000	Oct-07	0.000	Oct-08	Continuing	TBD	TBD
Counterspace Electronic Support Intel R&D System Program Office Costs	TBD Various	TBD Lackland AFB TX		0.000 0.328	N/A Oct-05	9.464 0.453	Nov-06 Oct-06	9.750 0.000	Nov-07 Oct-07	9.933 0.000	Nov-08 Oct-08	Continuing Continuing	TBD TBD	TBD TBD
Subtotal Product Development			0.000	6.600		15.920		12.111		12.322		Continuing	TBD	TBD
Remarks:														
<u>(U) Test &amp; Evaluation</u> Test	T&M	46th Test Squadron, Eglin AFB FL		0.541	Nov-05	0.560	Nov-06	0.000	Nov-07	0.000	Nov-08	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.541		0.560		0.000		0.000		Continuing	TBD	TBD
Remarks:														
<u>(U) Total Cost</u>			0.000	7.141		16.480		12.111		12.322		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY  
**07 Operational System Development**

PE NUMBER AND TITLE  
**0208021F Information Warfare Support**

PROJECT NUMBER AND TITLE  
**0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt**



# IWPC Program Schedule



*Delivering what we promised when we promised* *War-winning Capabilities... On Time, On Cost*

FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	
◆	JEFX-06	◆	JEFX-08	◆	JEFX-10			
<b>IWPCv4.2</b>		Field						
		IWPC Sustainment Contract Award ◆						
		◆ Sustain IWPC v4.2						

*Integrity - Service - Excellence*

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY  
**07 Operational System Development**

PE NUMBER AND TITLE  
**0208021F Information Warfare Support**

PROJECT NUMBER AND TITLE  
**0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt**



# CS ES & Intel Program Schedule

FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
◆	Contract Award						
<b>Counterspace Electronic Support Intel R&amp;D</b>							
	◆	Contract Award					
		◆	Contract Award				

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0208021F Information Warfare Support</b>	<b>PROJECT NUMBER AND TITLE</b> <b>0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</b>
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<b>(U) <u>Schedule Profile</u></b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) JEFX 06 Main Exercise	3Q			
(U) IWPC v4.2 Development test & integration	1-4Q	1-3Q		
(U) IWPC v4.2 Fielding		3Q	1-3Q	
(U) JEFX 08			2Q	
(U) IWPC 4.0 Sustainment Contract Award		2Q		
(U) IWPC v4.0 and v4.2 Sustainment		2-4Q	1-4Q	1-4Q
(U) **** Counter Space Electronic Support ***	1Q	1Q	1Q	1Q
(U) Contract Award	4Q			
(U) Intel support and R&D	4Q	1-4Q	1-4Q	1-4Q
(U) Contract Award		4Q		
(U) Contract Award			4Q	

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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>				<b>PE NUMBER AND TITLE</b> <b>0208021F Information Warfare Support</b>				<b>PROJECT NUMBER AND TITLE</b> <b>4871 Information Operations Technology</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4871 Information Operations Technology	7.109	8.169	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

Funding for the Information Operations Planning Capability Joint (IOPC-J) BPAC 674871 transferred to JFCOM's PE 33166D beginning in FY08

**(U) A. Mission Description and Budget Item Justification**

The Information Operations Planning Capability (IOPC-J) will be a suite of tools developed to a joint integrated baseline. It will leverage existing capabilities but will also require system and software development activities. The suite will be comprised of Joint IO planning capabilities and Service-unique applications based on shared access to Service/Agency/joint-provided data sources in support of the Joint Forces Commander's (JFC) overall campaign plan and across the spectrum of military and peacekeeping operations. Studies and software interface documentation has already been completed that will accommodate joint IO applications and will be a possible follow-on to the AF's Information Warfare Planning Capability 4.X. The Information Warfare Planning Capability (IWPC) v4.2 will serve as a joint users' initial capability, becoming an incremental pathfinder for the first developmental version of IOPC-J's baseline capabilities containing the complete AOC strategy to task planning.

This project funds development of and continued research to identify existing military and commercial efforts which can satisfy unfulfilled operational requirements for an IO planning and integration tool.

This program is in Budget Activity 7, Operational System Development, because it studies, develops, and fields IO tools.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) IOPC-J Software Development and Integration	4.274	4.893	0.000	0.000
(U) Site Integration	2.275	2.576	0.000	0.000
(U) IOPC-J Software Testing and Evaluation	0.560	0.700	0.000	0.000
(U) Total Cost	7.109	8.169	0.000	0.000

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

	<u>FY 2006</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>Complete</u>							
(U) IW Supt Operations and maintenance, AF 3400 and PE 28021	2.000	2.177	0.823	0.755	0.788	0.732	0.721	0.709	Continuing	TBD

**(U) D. Acquisition Strategy**

All major contracts will be 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			
<b>07 Operational System Development</b>										<b>0208021F Information Warfare Support</b>		<b>4871 Information Operations Technology</b>			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Product Development</u>															
IOPC-J development	TBD	TBD		7.109	Apr-06	8.169	Apr-07	0.000	N/A	0.000	N/A	Continuing	TBD	TBD	
Subtotal Product Development			0.000	7.109		8.169		0.000		0.000		Continuing	TBD	TBD	
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail														
(U) <u>Support</u>															
TBD												Continuing	TBD	TBD	
Subtotal Support			0.000	0.000		0.000		0.000		0.000		Continuing	TBD	TBD	
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail														
(U) <u>Test &amp; Evaluation</u>															
TBD												Continuing	TBD	TBD	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		Continuing	TBD	TBD	
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail														
(U) <u>Management</u>															
TBD												Continuing	TBD	TBD	
Subtotal Management			0.000	0.000		0.000		0.000		0.000		Continuing	TBD	TBD	
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail														
(U) Total Cost			0.000	7.109		8.169		0.000		0.000		Continuing	TBD	TBD	

Exhibit R-4, RDT&E Schedule Profile

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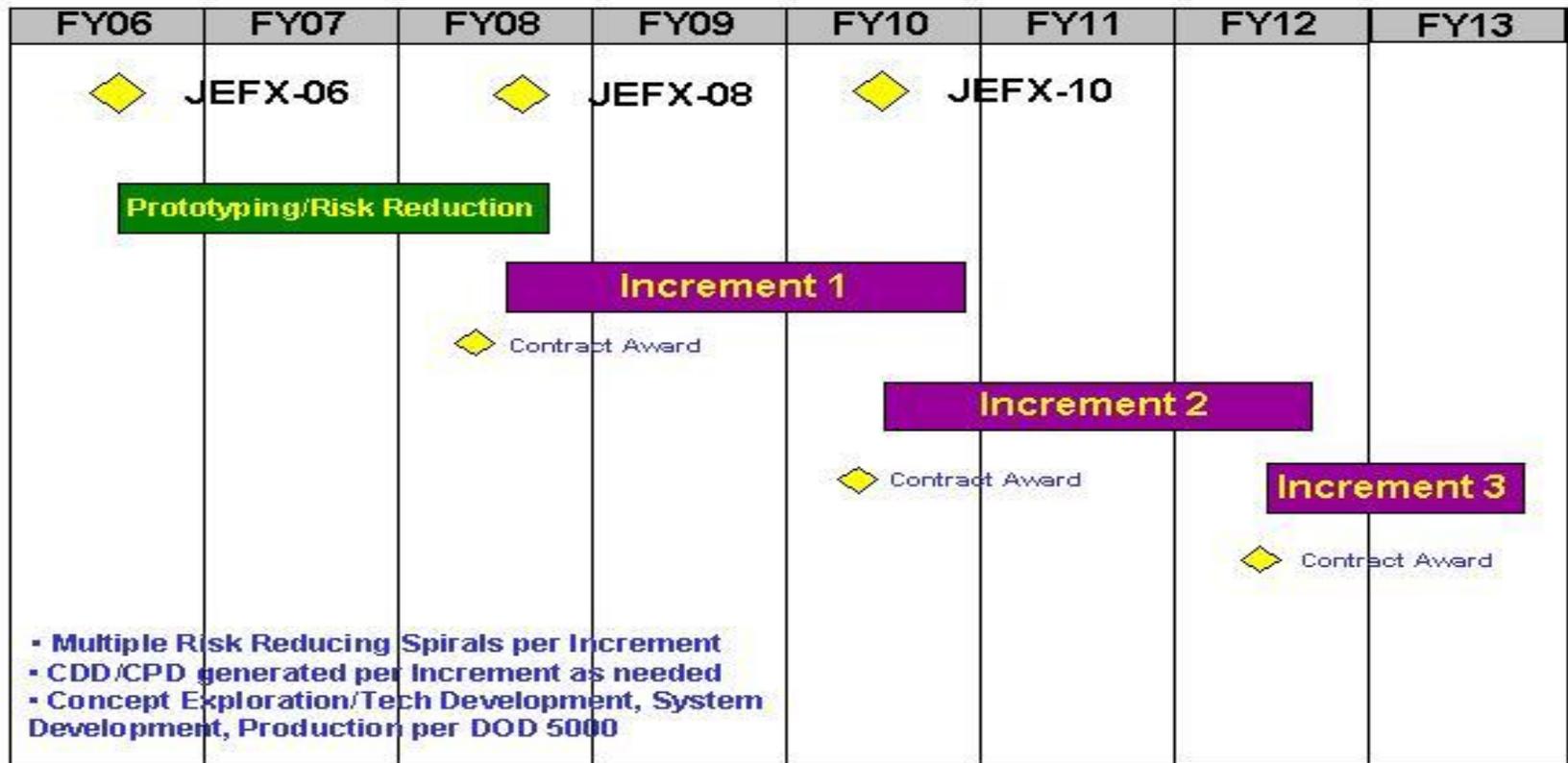
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07 Operational System Development

PE NUMBER AND TITLE  
0208021F Information Warfare Support

PROJECT NUMBER AND TITLE  
4871 Information Operations Technology



# IOPC-J Program Schedule



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**Exhibit R-4a, RDT&E Schedule Detail**

DATE

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BUDGET ACTIVITY

**07 Operational System Development**

PE NUMBER AND TITLE

**0208021F Information Warfare Support**

PROJECT NUMBER AND TITLE

**4871 Information Operations Technology**

(U) Schedule Profile

FY 2006

FY 2007

FY 2008

FY 2009

(U) JEFX-06

3Q

(U) Prototyping / Risk Reduction

3-4Q

1-4Q

1-3Q

(U) JEFX-08

3Q

(U) IOPC-J Increment 1 Contract

3-4Q

1-4Q

(U) Increment 1 Contract Award

2Q

(U) IOPC-J Software Increment 1

3-4Q

1-4Q