PE NUMBER: 0208021F
PE TITLE: Information Warfare Support

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2005		
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0208021F Information Warfare Support					
Cost ($ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	13.038	7.147	15.204	15.191	16.416	16.677	17.456	17.771	Continuing	TBD
0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	13.038	7.147	7.260	6.968	8.091	8.238	8.580	8.726	Continuing	TBD
4871 Information Operations Technology	0.000	0.000	7.944	8.223	8.325	8.439	8.876	9.045	Continuing	TBD

(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 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).

The Information Operations Planning Capability-Joint (IOPC-J), is a follow on capability to IWPC that is scoped to develop IO courses of action for the Joint and National IO community. The AF is about to assume the joint requirements definitions and procurement for this capability following JROC approval.   The on-going development provided by the Air Force's IWPC tool provides commonality with a joint program's planning requirement.   Studies and software interface documentation has already been completed that will accomodate joint IO applications in subsequent software versions of IWPC. These IO planning tools are scheduled to become baseline capabilities in the Air Operations Center (AOC) Weapon System and National Intel fusion centers. As part of the AOC, IWPC will participate in each Joint Expeditionary Force Experiment (JEFX) as part of the overall IWPC software development and integration.

This program 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.

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2005

BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0208021F Information Warfare Support

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

	FY 2004	FY 2005	FY 2006	FY 2007
(U) Previous President's Budget	13.141	7.147	7.221	6.838
(U) Current PBR/President's Budget	13.038	7.147	15.204	15.191
(U) Total Adjustments	-0.103	0.000		
(U) Congressional Program Reductions				
Congressional Rescissions	-0.103			
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				

(U) Significant Program Changes:

This program received additional funding beginning in FY-06 from OSD to begin the requirements definition and program acquisition of the Joint IO planning tools IOPC-J and the Joint Inter Agency Planning Capability (JIAPC). These joint capabilities are pre-planned program improvements to the the baseline IWPC program to be activated following the Air Forces decision to become the executive agent for IO planning.

Exhibit R-2a, RDT&E Project Justification		DATE February 2005

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

Cost ($ in Millions)		FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
0374	Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	13.038	7.147	7.260	6.968	8.091	8.238	8.580	8.726	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(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 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. An IWPC increment will be released approximately every 12 - 18 months. The IWPC Spiral Development Integrated Process Team (IWPC SD IPT), chaired by ACC will define requirements for each incremental release. Integration efforts will capitalize on the synergy between evolving technologies and on-going system program modifications to maximize the return on investment.

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.

(U) **B. Accomplishments/Planned Program ($ in Millions)**	FY 2004	FY 2005	FY 2006	FY 2007
(U) IWPC Software Development and Integration	4.428	3.333	4.444	0.130
(U) AOC Integration	0.000	1.464	2.275	6.278
(U) IWPC Software Testing and Evaluation	0.720	0.680	0.541	0.560
(U) JEFX System integration	2.993	1.670	0.000	
(U) Information Operations Technology Alliance (IOTA) Testing and Development	4.897	0.000	0.000	
(U) Total Cost	13.038	7.147	7.260	6.968

Exhibit R-2a, RDT&E Project Justification	DATE February 2005

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

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

	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U) IWPC Operations & Maintenance, AF (3400) PE 35193	1.045	1.061	1.210	1.154	1.176	1.198			Continuing	TBD

(U) **D. Acquisition Strategy**

These efforts will use an evolutionary acquisition strategy using contracts awarded after full and open competition.

Exhibit R-3, RDT&E Project Cost Analysis	DATE February 2005

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

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development														
JEFX - Various	Various	Lackland AFB TX/Moutain View CA		2.993	Feb-04	1.990	Oct-04	0.000	Oct-05	0.000	Oct-06	Continuing	TBD	TBD
Information Technologies Support Program II (ITSP II)	AF Form 9	Lackland AFB TX		0.000	Dec-03	0.740	Oct-04	0.679	Oct-05	0.679	Oct-06	Continuing	TBD	2.652
IWPC	AF Form 9	General Dynamics, Lackland AFB TX/Moutain View CA		3.378	Feb-04	3.370	Oct-04	5.317	Oct-05	4.861	Oct-06	Continuing	TBD	16.926
IWPC	DDForm 448	MITRE, Lackland AFB TX		0.000	Oct-03	0.380	Oct-04	0.395	Oct-05	0.415	Oct-06	Continuing	TBD	1.585
Information Operations Technology Alliance	Various	Lackland AFB TX		4.897	Oct-03	0.000	N/A	0.000	N/A	0.000	N/A	Continuing	TBD	TBD
System Program Office Costs	Various	Lackland AFB TX		1.270	Oct-03	0.137	Oct-04	0.328	Oct-05	0.453	Oct-06	Continuing	TBD	1.052
Subtotal Product Development			0.000	12.538		6.617		6.719		6.408		Continuing	TBD	TBD
Remarks:														
(U) Test & Evaluation														
Test	MIPR	46th Test Squadron, Eglin AFB FL		0.500	Nov-03	0.530	Nov-04	0.541	Nov-05	0.560	Nov-06	Continuing	TBD	2.131
Subtotal Test & Evaluation			0.000	0.500		0.530		0.541		0.560		Continuing	TBD	2.131
Remarks:														
(U) Total Cost			0.000	13.038		7.147		7.260		6.968		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile	DATE February 2005

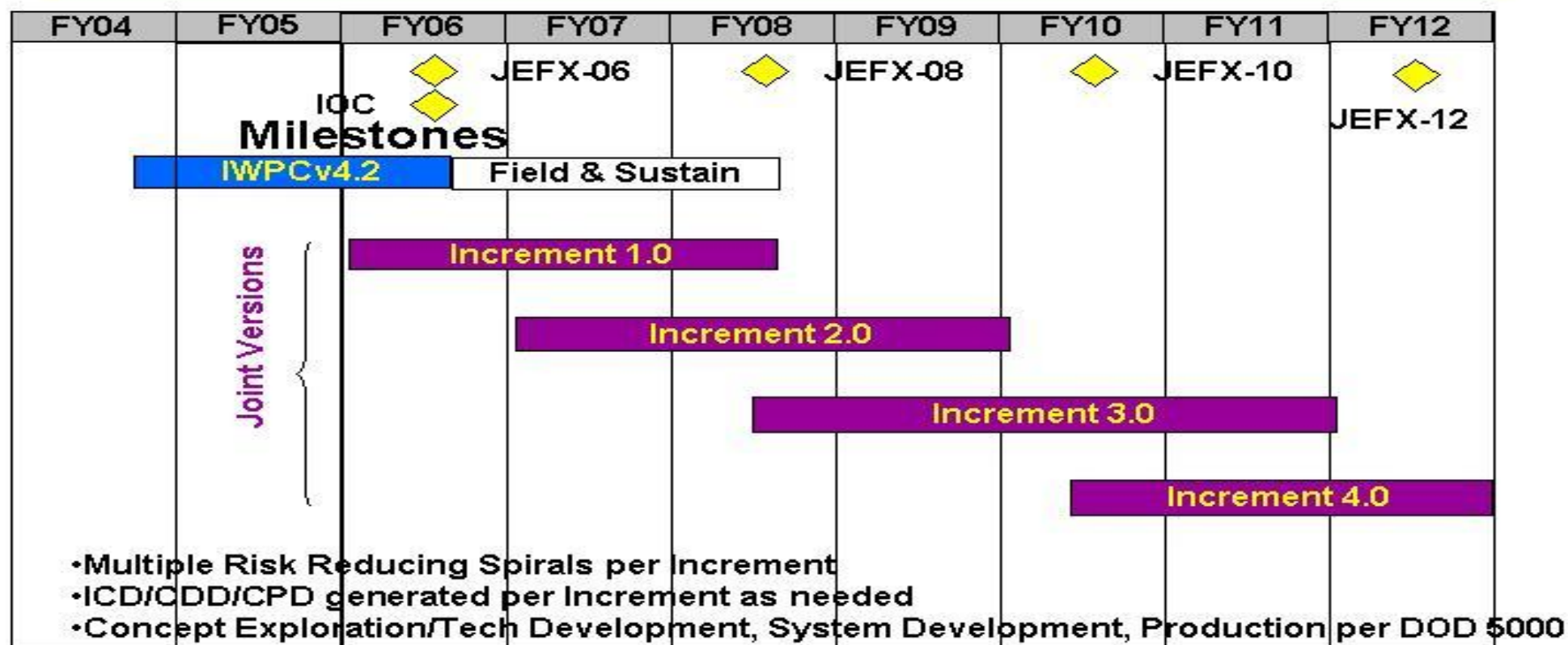| BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0208021F Information Warfare Support	PROJECT NUMBER AND TITLE 0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt

IWPC Program Schedule

FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12

◇ JEFX-06   ◇ JEFX-08   ◇ JEFX-10   ◇ JEFX-12

IOC ◇

Milestones

IWPCv4.2   Field & Sustain

Joint Versions

Increment 1.0

Increment 2.0

Increment 3.0

Increment 4.0

- Multiple Risk Reducing Spirals per Increment
- ICD/CDD/CPD generated per Increment as needed
- Concept Exploration/Tech Development, System Development, Production per DOD 5000

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2005

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

(U) **Schedule Profile**	FY 2004	FY 2005	FY 2006	FY 2007
(U) JEFX			2Q	
(U) IWPC Contract Award		1-3Q	1-3Q	1-3Q
(U) IWPC Software Development Increments 1 and 2		1-4Q	1-4Q	1-4Q
(U) IWPC Software Release Increments 1 and 2		1-4Q	1-4Q	1-4Q

Exhibit R-2a, RDT&E Project Justification	DATE February 2005

BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0208021F Information Warfare Support	PROJECT NUMBER AND TITLE 4871 Information Operations Technology

Cost ($ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4871 Information Operations Technology	0.000	0.000	7.944	8.223	8.325	8.439	8.876	9.045	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The Information Operations Planning Capability-Joint (IOPC-J), is a follow on capability to IWPC that is scoped to develop IO courses of action for the Joint and National IO community. The AF is about to assume the joint requirements definitions and procurement for this capability following JROC approval.   The on-going development provided by the Air Force's IWPC tool provides commonality with a joint program's planning requirement.   Studies and software interface documentation has already been completed that will accomodate joint IO applications in subsequent software versions of IWPC at ver 4.2. This IO planning tool is to become a baseline capability in the Air Operations Center (AOC) Weapon System and National Intel fusion centers.

As part of the AOC, IWPC will participate in each Joint Expeditionary Force Experiment (JEFX) as part of the overall IWPC software development and integration.

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)

	FY 2004	FY 2005	FY 2006	FY 2007
(U) IOPC-J Software Development and Integration	0.000	0.000	5.109	4.947
(U) (U) Site Integration	0.000	0.000	2.275	2.576
(U) (U) IOPC-J Software Testing and Evaluation	0.000	0.000	0.560	0.700
(U) Total Cost	0.000	0.000	7.944	8.223

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

	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U) IWPC Operations and maintenance, AF 3400 and PE 35193	1.045	1.061	1.210	1.154	1.176	1.198				

(U) D. Acquisition Strategy

All major contracts will be awarded after full and open competition.

Exhibit R-3, RDT&E Project Cost Analysis	DATE February 2005

BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0208021F Information Warfare Support	PROJECT NUMBER AND TITLE 4871 Information Operations Technology

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development														
IOPC-J development	TBD	TBD						7.944	Apr-06	8.223	Apr-07	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		7.944		8.223		Continuing	TBD	TBD
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail													
(U) Support														
TBD													0.000	TBD
Subtotal Support			0.000	0.000		0.000		0.000		0.000		0.000	0.000	TBD
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail													
(U) Test & Evaluation														
TBD													0.000	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	TBD
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail													
(U) Management														
TBD													0.000	TBD
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	TBD
Remarks:	Specific WBS information will be available following JROC actions allowing the SPO to initiate programmatic detail													
(U) Total Cost			0.000	0.000		0.000		7.944		8.223		Continuing	TBD	TBD

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Exhibit R-4, RDT&E Schedule Profile	DATE February 2005

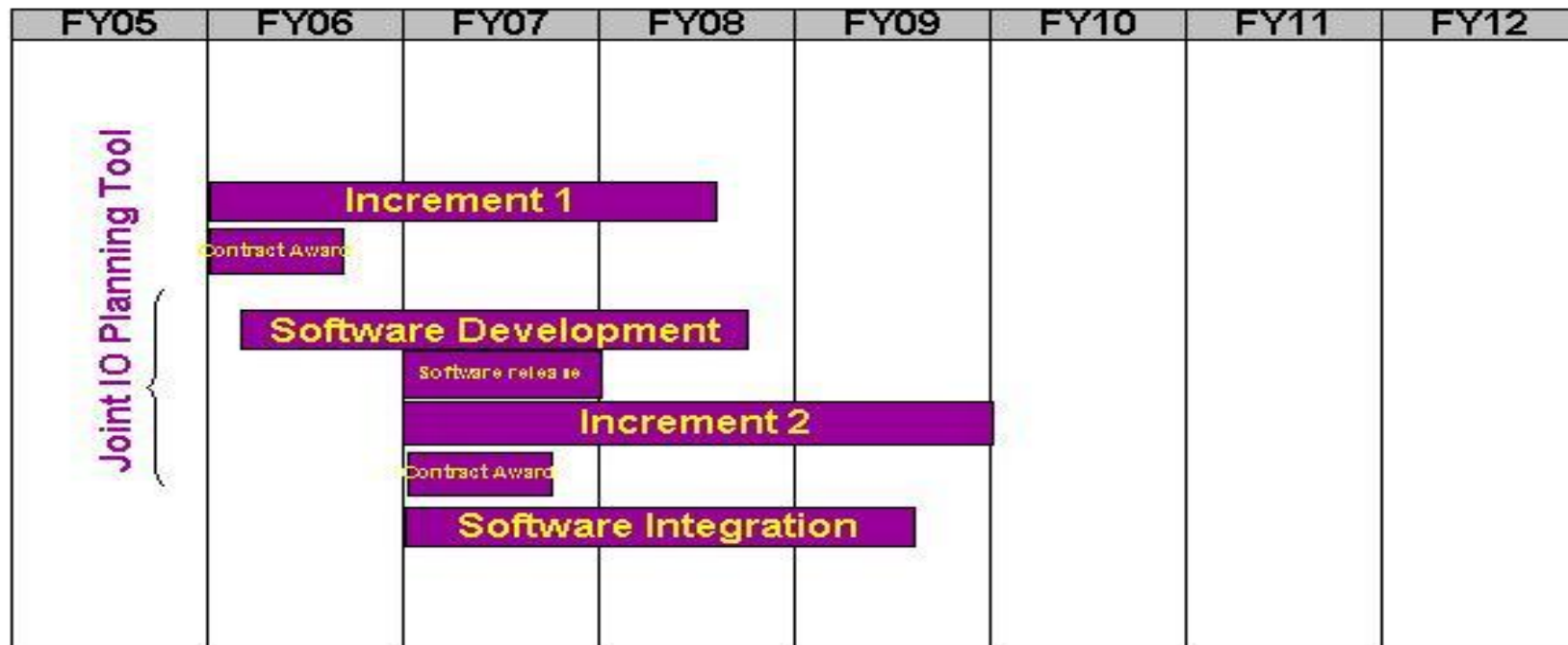| BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0208021F Information Warfare Support	PROJECT NUMBER AND TITLE 4871 Information Operations Technology

IOPC/J Program Schedule

FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12

Joint IO Planning Tool

Increment 1

Contract Award

Software Development

Software release

Increment 2

Contract Award

Software Integration

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2005

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 2004	FY 2005	FY 2006	FY 2007
(U) (U) IOPC/J Contract Award			1-3Q	1-3Q
(U) (U) IOPC/J Software Development			1-3Q	1-4Q
(U) (U) IOPC/J Software Integration Testing				3-4Q
(U) (U) IOPC/J Software Release				1-4Q