

UNCLASSIFIED

PE NUMBER: 0305887F

PE TITLE: Electronic Combat Intelligence Support

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305887F Electronic Combat Intelligence Support

Cost (\$ in Millions)	FY 2005 Actual	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	0.923	0.961	5.163	5.335	5.452	5.595	5.675	Continuing	TBD
0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	0.923	0.961	5.163	5.335	5.452	5.595	5.675	Continuing	TBD

FY04: Program content and funding transferred from PE 33140F-INFOSEC project 4871-Information Operations Technology, into PE 35887F-Electronic Combat Intel Support project 710T-Information Operations technology. This alignment better supports the RDT&E effort for information operations.

FY05: Under PE 35887F, the funding and content contained in project, 710T-Information Operations Technology, transferred to project 0374-Electronic Combat Intel Support, C3 Protection/Multi-Mission, Technology and Support. Project 710T will be closed.

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

FY05: Program content and funding transferred from PE 33140F-INFOSEC project 4871-Information Operation Technology, into PE 35887F project 70IOT-IO Technology. This alignment better supports the RDT&E effort for information operations.

FY05: Under PE 35887F, the funding and content in project 710T-Information Operations Technology, transferred to project 0374-Electronic Combat Intel Support, C3 Protection /Multi-Mission, Technology and Support. Project 710T will be closed.

(U) This program expedites Information Superiority (IS) Technology transition from laboratory, industry, and academia to operational platforms via studies, rapid prototyping, technology demonstrations and other RDT&E efforts. Program efforts directly support the AF Information Operations Capabilities Plan (IOCP) and the DoD Information Operations (IO) Roadmap.

(U) The program office investigates and selects the highest potential Information Operations technologies to meet specific shortfalls and deficiencies documented by major commands (MAJCOMs), unified commands, and IO agencies in Mission Area Plans (MAPs) and capabilities documents. In accordance with AFPD 10-7, the IS core capability areas to be considered are influence operations, electronic warfare operations and network warfare operations.

(U) Planned areas of study, prototyping, and demonstration, include but are not limited to, techniques and technologies for defending systems against sophisticated Information Superiority (IS) and computer network attacks. This will be done by exploiting Integrated Air Defense Systems (IADS), Command and Control Systems, and applying the latest advancements in emerging physics, communications, directed energy, electronic sensors, and intelligence to IS.

(U) The program office works directly with labs, industry users and battle labs to set priorities and find synergistic combinations of new technology, doctrine and training. Program efforts will be prioritized and guided by the Information Operations Capabilities Team (IOCT) in support of the Air Force IOCP and other applicable requirements documents.

(U) This program funds studies to leverage current DoD lab efforts. Studies will be deconflicted with and will complement PE's 0208021 Information Warfare Support

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and 0307293 Information Operations Systems and Support. Some aspects of this program will be protected under the PANTHER DEN Special Access Program. Data available upon request.

(U) This program is Budget Activity 7, Operational System Development, because it studies, develops, and fields IO technologies.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	0.923	0.972	0.989
(U) Current PBR/President's Budget	0.923	0.972	5.223
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			

(U) **Significant Program Changes:**

This PE received additional funding beginning in FY07 as a SECAF directed, OSD approved effort in support of current and future PANTHER DEN activities.

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Exhibit R-2a, RDT&E Project Justification								DATE February 2006		
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0305887F Electronic Combat Intelligence Support			PROJECT NUMBER AND TITLE 0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt			
Cost (\$ in Millions)		FY 2005 Actual	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	0.923	0.961	5.163	5.335	5.452	5.595	5.675	Continuing	TBD
Quantity of RDT&E Articles		0	0	0	0	0	0	0		

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

FY05: Program content and funding transferred from PE 33140F-INFOSEC project 4871-Information Operation Technology, into PE 35887F project 70IOT-IO Technology. This alignment better supports the RDT&E effort for information operations.

FY05: Under PE 35887F, the funding and content in project 7IOT-Information Operations Technology, transferred to project 0374-Electronic Combat Intel Support, C3 Protection /Multi-Mission, Technology and Support. Project 7IOT will be closed.

(U) This program expedites Information Superiority (IS) Technology transition from laboratory, industry, and academia to operational platforms via studies, rapid prototyping, technology demonstrations and other RDT&E efforts. Program efforts directly support the AF Information Operations Capabilities Plan (IOCP) and the DoD Information Operations (IO) Roadmap.

(U) The program office investigates and selects the highest potential Information Operations technologies to meet specific shortfalls and deficiencies documented by major commands (MAJCOMs), unified commands, and IO agencies in Mission Area Plans (MAPs) and capabilities documents. In accordance with AFPD 10-7, the IS core capability areas to be considered are influence operations, electronic warfare operations and network warfare operations.

(U) Planned areas of study, prototyping, and demonstration, include but are not limited to, techniques and technologies for defending systems against sophisticated Information Superiority (IS) and computer network attacks. This will be done by exploiting Integrated Air Defense Systems (IADS), Command and Control Systems, and applying the latest advancements in emerging physics, communications, directed energy, electronic sensors, and intelligence to IS.

(U) The program office works directly with labs, industry users and battle labs to set priorities and find synergistic combinations of new technology, doctrine and training. Program efforts will be prioritized and guided by the Information Operations Capabilities Team (IOCT) in support of the Air Force IOCP and other applicable requirements documents.

(U) This program funds studies to leverage current DoD lab efforts. Studies will be deconflicted with and will complement PE's 0208021 Information Warfare Support and 0307293 Information Operations Systems and Support. Some aspects of this program will be protected under the PANTHER DEN Special Access Program. Data available upon request.

(U) This program is Budget Activity 7, Operational System Development, because it studies, develops, and fields IO technologies.

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Protection/Multi-Mission, Technology
and Spt(U) **B. Accomplishments/Planned Program (\$ in Millions)**FY 2005FY 2006FY 2007

(U) The IO Technology Program provides security, systems engineering, rapid prototyping, and demonstrations of state-of-the-art IO technologies to meet the warfighters IO requirements. The IO Capabilities Team (IOCT) and the IO Capabilities Plan will be supported through these developmental efforts.

0.923

0.978

5.223

(U)

(U)

(U) Total Cost

0.923

0.978

5.223

(U) **C. Other Program Funding Summary (\$ in Millions)**FY 2005FY 2006FY 2007FY 2008FY 2009FY 2010FY 2011Cost toTotal CostActualEstimateEstimateEstimateEstimateEstimateEstimateComplete

(U) PE 28021 Information Warfare
Support and (future PE) 37293

7.147

15.204

24.717

26.166

26.610

27.580

28.096

Continuing

TBD

(U) **D. Acquisition Strategy**

All major contracts within this program element are awarded after full and open competition unless other than full and open is justified to the Program Executive Officer (PEO) or Designated Approval Authority (DAA).

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Exhibit R-3, RDT&E Project Cost Analysis

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and Spt

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> Security Systems Engineering	CPFF	Lockheed Martin, Hanscom AFB MA		0.050	Jun-05	0.050	Jun-06	0.050	Jun-07	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.050		0.050		0.050		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u> Security Support	JTSP	Various, Hanscom AFB MA		0.400	Jan-05	0.520	Jan-06	0.558	Jan-07	Continuing	TBD	TBD
Engineering Support	FFRDC	MITRE, Bedford MA		0.175	Oct-04	0.233	Oct-05	0.243	Oct-06	Continuing	TBD	TBD
Subtotal Support			0.000	0.575		0.753		0.801		Continuing	TBD	TBD
Remarks:												
(U) <u>Test & Evaluation</u> Funded Via Platform SPOs								4.216		Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		4.216		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u> Operating Costs		ESC/SRNW, Hanscom AFB MA		0.298	N/A	0.175	N/A	0.156	N/A	Continuing	TBD	TBD
Subtotal Management			0.000	0.298		0.175		0.156		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	0.923		0.978		5.223		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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and Spt

PANTHER DEN Schedule

FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
<p>THIS PROGRAM'S SCHEDULE IS PROTECTED UNDER A SPECIAL ACCESS PROGRAM CLASSIFICATION</p>							

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Project 0374

R-1 Shopping List - Item No. 206-6 of 206-7

Exhibit R-4 (PE 0305887F)

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Exhibit R-4a, RDT&E Schedule Detail

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and Spt(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Program schedules are protected under Special Access Program classification