CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY **RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7**						R-1 ITEM NOMENCLATURE 0305206N Airborne Reconnaissance Advanced Development (ARAD)					
COST ($ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost	**16.337**	**18.779**	**26.135**	**5.735**							
H2694 Advanced Digital Sensors	**3.034**	**2.958**	**** 12.302**	**5.735**							
R2476 Framing Reconnaissance Camera	**13.303**	*** 15.821**	***** 13.833**	**0.000**							
Quantity of RDT&E Articles		**1**									

* FYs 2000 includes Congressional Adds totaling $14.0 million for Electro optical (E-O) Framing Technologies and Hyperspectral Reconnaissance executed under R2676 which have been offset for Congressional undistributed reductions. ** The FY 2001 budget reflects Congressional adds for Upgrade Story Finder ($3.0 million) and Weight Reduction Study ($4.0 million) which will be executed under H2990 and H2991 respectively. ***The FY 2001 budget reflects Congressional adds for Advanced Focal Plane Shutter ($3.0 million), Hyperspectral Modular Upgrades ($4.0 million), and Sensor Upgrade ($5.0 million) which will be executed under R2676, R2807, and R2992 respectively.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Provides funds for the development of sensor systems to improve present airborne reconnaissance capabilities. The developments are driven by evolving collection requirements and modern technology advances. The developments allow for the necessary changes required to meet an integrated, objective airborne reconnaissance architecture as defined in the Integrated Airborne Reconnaissance Strategy (IARS) and amplified in the Airborne Reconnaissance Information Technical Architecture (ARITA). The Advanced Sensors Development Program implements successful proof-of-concept efforts accomplished in the Advanced Technology Program, other Service/Agency developments, and Congressionally-funded initiatives leading to producible sensor systems for airborne platforms. Upon successful sensor prototype demonstration, technology sensor developments are turned over to the Services for procurement and platform integration. This effort focuses on developments, which support sensor system interoperability and standardization of multi-Service and multi-platform applications. The advanced sensor developments will provide the technology transition modules for operational use necessary for the overall migration of the airborne fleet (manned and unmanned) to a Joint Airborne SIGINT Architecture (JASA) (i.e., sensors, ground systems, data links, and platforms), and provide the mechanism required for timely dissemination of intelligence information to operational forces. The development and modification of the lead integration aircraft (EP-3E) for the initial JASA modules will provide a mechanism to begin development and operational assessment of the Joint SIGINT Avionics Family (JSAF) components. Coordinated and complementary airborne sensor development across the military Services and the Defense and Intelligence Agencies are being established for inclusion into the JASA. The two primary objectives for Advanced Technology funding is to evaluate the utility and maturity of technology for airborne reconnaissance applications and to reduce the risk of employing emerging technologies in system upgrades, new system acquisitions, or Advanced Concept Technology Demonstrations (ACTDs), by integrating and exercising them in developmental and operational tests. These technologies help satisfy the requirements of the objective architecture set forth in the Integrated Airborne Reconnaissance Strategy (IARS). These technology investments are also identified in the Airborne Reconnaissance Technology Program Plan (ARTPP), published in November 1994. Transition of sensors to AF TARS, and Navy TARPS-CD and SHARP programs have been successful.

(U) JUSTIFICATION OF BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0305206N Airborne Reconnaissance Advanced Development (ARAD)					PROJECT NUMBER AND NAME H2694 Advanced Digital Sensors					
COST ($ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	**3.034**	**2.958**	**12.302** **	**5.735**							
RDT&E Articles Qty											

** The FY 2001 budget reflects Congressional adds for Upgrade Story Finder ($3.0 million) and Weight Reduction Study ($4.0 million) which will be executed under H2990 and H2991 respectively.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Provides funds for the development of sensor systems to improve present airborne reconnaissance capabilities. The developments are driven by evolving collection requirements and modern technology advances. The developments allow for the necessary changes required to meet an integrated, objective airborne reconnaissance architecture as defined in the Integrated Airborne Reconnaissance Strategy (IARS) and amplified in the Airborne Reconnaissance Information Technical Architecture (ARITA). The advanced sensor program includes technical analyses, systems engineering assessments, planning, and development for advanced airborne sensor systems. This effort focuses on developments which support sensor system interoperability and standardization of multi-Service and multi-platform applications. The EP-3E will undergo a series of block modification via an evolutionary acquisition process beginning in FY 2001. These block modifications have collectively been designated as the Joint SIGINT Avionics Family (JSAF) Modification Program (JMOD). The advanced sensor developments described herein will provide the technology transition modules necessary for the overall migration of the airborne fleet to a Joint Airborne SIGINT Architecture (JASA) (i.e., sensors, ground systems, data links, and platforms), and provide the mechanism required for timely dissemination of intelligence information to operational forces.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:
   - (U) ($. 703) Initiated joint Common Processor Core (CPC) Phase IV Development.
   - (U) ($. 858) Completed Story Finder development and Conduct Critical Design Review (CDR).
   - (U) ($ .150) Initiated Story Book CPC Phase I-III JSAF MOD 1 Software Integration Lab (SIL) Integration and Test
   - (U) ($ .306) Continued Story Finder JSAF MOD 1 SIL Integration and DevelopmentalTest (DT) and Operational Assessment (OA).
   - (U) ($ .250) Initiated Story Book CPC Phase I-III JSAF MOD 1 aircraft integration.
   - (U) ($ .266) Completed Story Finder JSAF MOD 1 aircraft integration.
   - (U) ($ .425) Completed Story Maker fusion software requirements analysis.
2. FY 2001 PLANS:
   - (U) ($. 570) Initiate Story Maker fusion software development.
   - (U) ($1.066) Complete Story FinderJSAF MOD 1 aircraft Integration.
   - (U) ($ .320) Complete Story Book CPC Phase I-III JSAF MOD 1 aircraft Integration.
   - (U) ($ .334) Conduct Story Finder DT/Operational Test (OT) on EP-3E JSAF MOD 1 aircraft.
   - (U) ($ .300) Conduct Story Book CPC Phase I-III DT/OT on EP-3E JSAF MOD1 aircraft.
   - (U) ($ .363) Continue joint Common Processor Core (CPC) Phase IV development.
   - (U) ($2.414) Complete JMOD1 prototype installation
   - (U) ($2.972) Upgrade Story Finder
   - (U) ($3.963) Weight Reduction Study.

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0305206N Airborne Reconnaissance Advanced Development (ARAD)	H2694 Advanced Digital Sensors

(U) PROGRAM ACCOMPLISHMENTS

3. FY 2002 PLANS:
   (U) ($1.306) Continue Story Maker development, integration and demonstration.
   (U) ($3.095) Complete Story Finder and continue software development, integration and demonstration.
   (U) ($ .300) Complete Story Book CPC.
   (U) ($ .200) Initiate Opal/Onyx aircraft DT/OT.
   (U) ($ .300) Conduct Story Classic Special Collections integration design.
   (U) ($ .534) Initiate JMOD 3 Precision Targeting (Imagery) engineering investigations.

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0305206N Airborne Reconnaissance Advanced Developm	H2694 Advanced Digital Sensors

(U) B. PROGRAM CHANGE SUMMARY:

	FY2000	FY2001	FY2002
(U) FY 2001 President's Budget:	2.970	2.861	7.749
(U) Adjustments from the President's Budget:	-0.012	9.441	-2.014
(U) FY2002 President's Budget Submit:	2.958	12.302	5.735

CHANGE SUMMARY EXPLANATION:

(U) Funding: The FY 2000 net decrease of $.012 million consist of a decrease for a Congressional Recission ($.012 million). The FY 2001 net increase of $9.441 million consists of an increase for realignment of EP-3 JMOD protype installation funding ($2.6 million), a Congressional add to Upgrade Storyfinder/Landmarks ($3.0 million), a Congressional add for EP-3 Upgrade ($4.0 million), decrease for a Congressional reduction ($.132 million), and a decrease for a Congressional Recission ($.021 million), and a decrease for reprioritization of requirements within the Navy ($.006 million). The FY 2002 decrease of $2.014 million consist of a decrease for reprioritization of requirements within the Navy ($2.024 million), a decrease for economic assumptions ($.001 million), and an increase for economic assumptions ($.011 million).

(U) Schedule: FY 2002 and To Complete reflects the rebaseline of the RDT&E programs to the EP-3E JSAF Block Mod Upgrade schedule.

(U) Technical: Not Applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost
APN-5 EP-3E OSIP 11-01		4.559	35.222							

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0305206N Airborne Reconnaissance Advanced Development (ARAD)	H2694 Advanced Digital Sensors

(U) D. ACQUISITION STRATEGY: Leverages/complements Air Force, Naval Research Laboratory, Office of Naval Research RDT&E efforts for technology insertions into EP-3E/VPU productions programs.

(U) E. SCHEDULE PROFILE:

	FY 2000	FY 2001	FY 2002
(U) Program Milestones		2Q/01LRIP for JSAF MOD 1 (Story Book and Story Finder)	2Q/02 JSAF MOD 1 FRP (MS III) (Story Book and Story Finder)
(U) Engineering Milestones	1Q/00 JSAF MOD 1 (Story Finder/Book) CDR		
(U) T&E Milestones	4Q/00 JSAF MOD 1 SIL DT/OA	3Q/01 JSAF MOD 1 Acft DT/OT	
(U) Contract Milestones			

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)						DATE: **May 2001**						
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0305206N Airborne Reconnaissance Advanced Developme			PROJECT NUMBER AND NAME H2694 Advanced Digital Sensors						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Story Finder	SS/CPFF	BTG, Vienna, VA	0.898									0.898
Story Finder	SS/CPFF	Raytheon Systems	0.772	1.400	01/01	2.100	12/01					Continuing
Story Finder	SS/CPFF	Lockheed Martin	0.106	0.237	01/01	0.995	12/01					Continuing
Fusion Software Development	SS/CPFF	GTE, Sunnyvale, CA	1.046			0.902	12/01					Continuing
OPAL/ONYX Development	SS/CPFF	Raytheon Systems		0.100	01/01							Continuing
Special Collections	SS/CPFF	Raytheon Systems				0.194	12/01					Continuing
Imagery	SS/CPFF	Raytheon Systems				0.268	12/01					Continuing
CPC Development	SS/CPFF	Raytheon Systems	1.447									Continuing
JMOD1 Prototype Installation	SS/CPFF	Raytheon Systems		2.414	01/01							Continuing
ESM System Modification	SS/CPFF	Raytheon Systems		2.868	01/01							Continuing
Lightweight Equipment & Racks Devel.	SS/CPFF	Raytheon Systems		1.801	01/01							Continuing
Subtotal Product Development			4.269	8.820		4.459						

Remarks:

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)											DATE: **June 2001**		
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0305206N Airborne Reconnaissance Advanced Developme			PROJECT NUMBER AND NAME H2694 Advanced Digital Sensors							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering	C/CPFF	GRCI, Vienna, VA	0.800	0.471	12/00	0.450	12/01					Continuing
Systems Engineering	WX	NAWC,WD, China Lake, CA	0.303	2.277	12/00	0.300	12/01					
Systems Engineering	WX	NSWC, Dahlgren, VA		0.413	12/00	0.150	12/01					
Subtotal Support			1.103	3.161		0.900						

Remarks:

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)						DATE: **June 2001**						
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0305206N Airborne Reconnaissance Advanced Developme			PROJECT NUMBER AND NAME H2694 Advanced Digital Sensors						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NAWC,AD Pax River, MD	0.050			0.050	12/01					
Story Finder	WX	NRL, MD	0.100									
Subtotal T&E			0.150	0.000		0.050						
Remarks:												
Technical Support	WX	NAWC,AD Pax River, MD	0.470	0.321	12/00	0.326	12/01					
Subtotal Management			0.470	0.321		0.326						
Remarks:												
Total Cost			5.992	12.302		5.735						
Remarks:												

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**	PROGRAM ELEMENT NUMBER AND NAME 0305206N Airborne Reconnaissance Advanced Development					PROJECT NUMBER AND NAME R2476 Framing Reconnaissance Camera					
COST ($ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	**13.303**	*** 15.821**	***** 13.833**	**0.000**							
RDT&E Articles Qty		**1**									

* FYs 2000 includes Congressional Adds totaling $14.0 million, offset for Congressional Undistributed reductions, for Electro optical (E-O) Framing Technologies and Hyperspectral Reconnaissance executed under R2676.

***The FY 2001 budget reflects Congressional adds for Advanced Focal Plane Shutter ($3.0 million), Hyperspectral Modular Upgrades ($4.0 million), and Sensor Upgrade ($5.0 million) which will be executed under R2676, R2807, and R2992 respectively.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Provides funds for the development of sensor systems to improve present airborne reconnaissance capabilities. The developments are driven by evolving collection requirements and modern technology advances. The developments allow for the necessary changes required to meet an integrated, objective airborne reconnaissance architecture as defined in the Integrated Airborne Reconnaissance Strategy (IARS) and amplified in the Airborne Reconnaissance Information Technical Architecture (ARITA). The Advanced Sensors Development Program implements successful proof-of-concept efforts accomplished in the Advanced Technology Program, other Service/Agency developments, and Congressionally-funded initiatives leading to producible sensor systems for airborne platforms. Upon successful sensor prototype demonstration, technology sensor developments are turned over to the Services for procurement and platform integration. This effort focuses on developments, which support sensor system interoperability and standardization of multi-Service and multi-platform applications. The advanced sensor developments will provide the technology transition modules for operational use necessary for the overall migration of the airborne fleet (manned and unmanned) to a Joint Airborne SIGINT Architecture (JASA) (i.e., sensors, ground systems, data links, and platforms), and provide the mechanism required for timely dissemination of intelligence information to operational forces. The development and modification of the lead integration aircraft (EP-3E) for the initial JASA modules will provide a mechanism to begin development and operational assessment of the Joint SIGINT Avionics Family (JSAF) components. Coordinated and complementary airborne sensor development across the military Services and the Defense and Intelligence Agencies are being established for inclusion into the JASA.

There are two primary objectives for the Advanced Technology funding: (1) to evaluate the utility and maturity of technology for airborne reconnaissance applications and (2) to reduce the risk of employing emerging technologies in system upgrades, new system acquisitions, or Advanced Concept Technology Demonstrations (ACTDs), by integrating and exercising them in developmental and operational tests. These technologies help satisfy the requirements of the objective architecture set forth in the Integrated Airborne Reconnaissance Strategy (IARS). These technology investments are also identified in the Airborne Reconnaissance Technology Program Plan (ARTPP), published in November 1994. Transition of sensors to AF TARS, and Navy TARPS-CD and SHARP programs has been successful. Congress added funds in FY 2001 to (1) develop and Advanced Focal Plane Array for smaller electro-optical framing size, (2) develop and upgrade the Sensor to and 18 inch lens and integrate an existing dual banned sensor into the TARP pod, and (3) to upgrade the Airborne Reconnaissance System Hyperspectral Module.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0305206N Airborne Reconnaissance Advanced Development (ARAD)	R2476 Framing Reconnaissance Camera

(U) PROGRAM ACCOMPLISHMENTS

1. FY 2000 PLANS:
   (U) ($11.049) Contracted for larger IR array for dual band camera, dual band camera incorporating larger IR array, long range camera incorporating visibleand SWIR Modules, hyperspectral module for long range camera, long range camera incorporating hyperspectral module.
   (U) ($ 1.400) Installed dual band camera and begin flight tests.
   (U) ($ 1.200) Contracted to modify Precision Strike system to accommodate Hyperspectral capability.
   (U) ($ .172) Successfully tested compression boards.
   (U) ($ .400) Began test of precision strike capable camera.
   (U) ($ 1.600) Conducted Flight test (NRL).

2. FY 2001 PLANS:
   (U) ($1.000) Complete flight test program of dual band camera.
   (U) ($ .234) Complete evaluation of dual band camera test results.
   (U) ($ .647) Perform flight demonstration of precision strike capable reconnaissance camera.
   (U) ($4.000) Develop Hyperspectral Modular upgrades.
   (U) ($4.980) Develop, integrate, and upgrade sensor.
   (U) ($2.972) Develop advanced focal plane shutter.

3. FY 2002 PLANS: Not Applicable.

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0305206N Airborne Reconnaissance Advanced Developm	R2476 Framing Reconnaissance Camera

(U) B. PROGRAM CHANGE SUMMARY:

	FY2000	FY2001	FY2002
(U) FY 2001 President's Budget:	15.883	1.898	0.000
(U) Adjustments from the President's Budget:	-0.062	11.935	0.000
(U) FY2002 President's Budget Submit:	15.821	13.833	0.000

CHANGE SUMMARY EXPLANATION:

(U) Funding: The FY 2000 decrease of $.062 consists of a decrease for a Congressional Recission ($.062 million). The FY 2001 net increase of $11.935 million consists of a Congressional add for the Advanced Focal Plane Shutter ($3.000 million), a Congressional add for the Hyperspectral Modular Upgrades ($4.000 million), a Congressional add for theSensor Upgrade ($5.000 million) and a decrease for a Congressional Reduction ($.065 million).

(U) Schedule: Changed to address Congreesional adds.

(U) Technical: Not Applicable

(U) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost
PE 0305207N, DARP, Special Project Aircraft	39.738	27.443	29.335							

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-7	0305206N Airborne Reconnaissance Advanced Development	R2476 Framing Reconnaissance Camera

(U) D. ACQUISITION STRATEGY: The program is to develop framing reconnaissance camera technology to support improved capabilities for programs such as SHARP.

(U) E. SCHEDULE PROFILE:

	FY 2000	FY 2001	FY 2002
(U) Program Milestones		4Q/01 Develop Focal Plane Shutter	
(U) Engineering Milestones			
(U) T&E Milestones	3Q/00 Begin dual band flight tests 3Q/00 Begin Precision Strike flight tests	2Q/01 Complete dual band flight tests 3Q/01 Precision Strike demonstration 3Q/01 Flight testing of cameras	
(U) Contract Milestones	3Q/00 Contracts Placed	3Q/01 Contracts Placed	

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)											DATE: **June 2001**		
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0305206N Airborne Reconnaissance Advanced Developm			PROJECT NUMBER AND NAME R2476 Framing Reconnaissance Camera							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
IR Array	C/CPFF	Recon Opt., Barrington, IL	1.661									Continuing
Dual Band Camera	C/CPFF	Recon Opt., Barrington, IL	2.300									Continuing
Long Range Camera	C/CPFF	Recon Opt., Barrington, IL	2.000									Continuing
Hyperspectral Module	C/CPFF	Recon Opt., Barrington, IL	1.500									Continuing
Camera for Hyperspectral	C/CPFF	Recon Opt., Barrington, IL	1.000									Continuing
Visible and SWIR Modules	C/CPFF	ITS, Honolulu, HI	3.300									Continuing
Precision Strike System	C/CPFF	Recon Opt., Barrington, IL	1.250									Continuing
Flight Tests	WR	NRL, Wash DC	0.900									Continuing
Compression board development	C/CPFF	Space Dyn. Lab. Logan, UT	3.400									Continuing
Precision Strike camera	C/CPFF	Recon Opt., Barrington, IL	1.290									Continuing
Dual Band Camera	C/CPFF	Recon Opt., Barrington, IL	4.038									Continuing
100 Megapixel Camera Test	C/CPFF	Recon Opt., Barrington, IL	4.513									Continuing
Hyperspectral Modular Upgrades	TBD	TBD		4.000								Continuing
Development Upgrade Integrate Sensor	TBD	TBD		4.980								Continuing
Develop advanced focal plane shutter.	TBD	TBD		2.972								Continuing
Subtotal Product Development			27.152	11.952		0.000						

Remarks:

R-1 SHOPPING LIST - Item No. 210

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)						DATE: **June 2001**						
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA-7**			PROGRAM ELEMENT 0305206N Airborne Reconnaissance Advanced Developm			PROJECT NUMBER AND NAME R2476 Framing Reconnaissance Camera						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Camera test support	C/CPFF	Various	0.172									Continuing
Subtotal T&E			0.172	0.000		0.000						
Remarks:												
Contractor Engineering Support	C/CPFF	Various	1.400	1.417	11/00							Continuing
Government Engineering Support	WR	NRL, Wash, DC	0.400	0.464								
Subtotal Management			1.800	1.881		0.000						
Remarks:												
Total Cost			29.124	13.833		0.000						
Remarks: This program has no support costs.												

R-1 SHOPPING LIST - Item No. 210